

FORSCHUNGSKOMPASS

THE SCIENCE MAGAZINE OF WISMAR UNIVERSITY OF APPLIED SCIENCES

2020–24



**INSTITUTE & RESEARCH PROFILES
EXEMPLARY RESEARCH PROJECTS
RESEARCH IN FACTS AND FIGURES**



Dear readers,

Science thrives on discovery, understanding and change. Research is therefore much more than a statutory task for Wismar University of Applied Sciences - it is a driving force for innovation, knowledge gain and the close connection between theory and practice. As a university of applied sciences, we do not see research in isolation, but as an integral part of our educational mission and as a driving force for scientific and economic progress in our region and beyond.

With the first issue of the Research Compass, we are replacing the previous Research & Innovation report series and presenting the research activities of Wismar University of Applied Sciences from 2020 to 2024 in a new form. This magazine not only documents our scientific successes, but also provides an insight into the dynamics and diversity of research at our university.

The variety of topics ranges from engineering and technological developments to economic and social issues and interdisciplinary projects with regional and international partners. Our researchers work together with companies, associations and public institutions to develop practical solutions for current challenges. We are convinced that research not only strengthens the innovative power of the economy, but also enriches teaching by involving students in scientific processes at an early stage.

With the Research Compass, we invite you to gain an impression of research at the Wismar University of Applied Sciences. Be inspired by the projects and results, discover new opportunities for cooperation and join us on our journey to make science useful for society and the economy.

I would like to thank all the researchers, partners and employees who have contributed to this research report and wish you a stimulating read.

Prof. Dr.-Ing. Daniela Schwerdt

Vice Rector for Research





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When the journey is not the destination – Navigating made easy

Complex building systems are a challenge for the natural sense of orientation due to their spaciousness and structure. A digital indoor navigation system has been developed to make it easier to find the way around larger building areas.

Wismar Business School



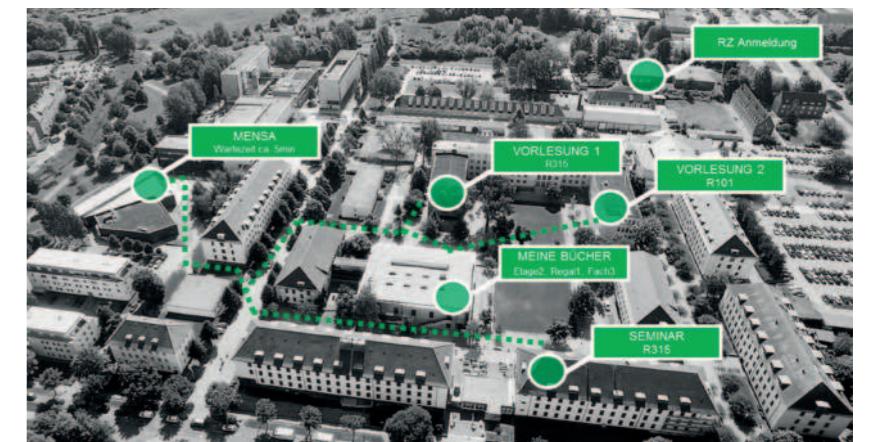
INDOOR NAVIGATION WITH HIGH RESOLUTION OVER LARGE AREAS, ALONG CORRIDORS AND INDIVIDUAL ROOMS

Universities and universities of applied sciences are often extensive and complex, making it difficult for new students and visitors to find their way around. Wismar University of Applied Sciences, with its 27 accessible buildings, is a typical example of this. The project „Indoor navigation with high resolution on large areas, along corridors and individual rooms“ – INAFer for short – was launched to facilitate orientation on a campus. The project was a collaboration between Wismar University of Applied Sciences and DEJ Technology GmbH from Rostock and ran from January 2019 to November 2022.

The aim of the project was to develop an indoor navigation system that could be used not only on a campus, but also in other large building complexes, e.g. hospitals, airports, railway stations, etc. etc. Navigation was to be realised using a coded, inaudible ultrasonic signal played via loudspeakers.

DEJ Technology GmbH concentrated on optimising its ultrasonic positioning technology and making it ready for the market. At the same time, Wismar University of Applied Sciences pursued the goal of creating a reference architecture that links building information and content management systems as well as audio services in a plug-and-play pro-

cess to form intelligent overall systems. The aim was to create a reference architecture that links building information and content management systems as well as audio services in a plug-and-play process to form intelligent overall systems, for example to start navigation to the next lecture or a specific book in the library or to call up the current waiting time in the canteen. Various prototypes were part of the developments.



Development of the prototypes

▲ Aerial view of the campus of Wismar University of Applied Sciences with markings of the most important buildings to be covered by the indoor navigation system

▲ Fig. above: Test run for indoor navigation with smartphones from different manufacturers mounted on a sponsored shopping trolley to evaluate accuracy and differences

library management, car park search and canteen information. Technically, the project was based on the development of a mobile loudspeaker laboratory („SONOS Play:1“), which could be flexibly integrated into the university's IT infrastructure.



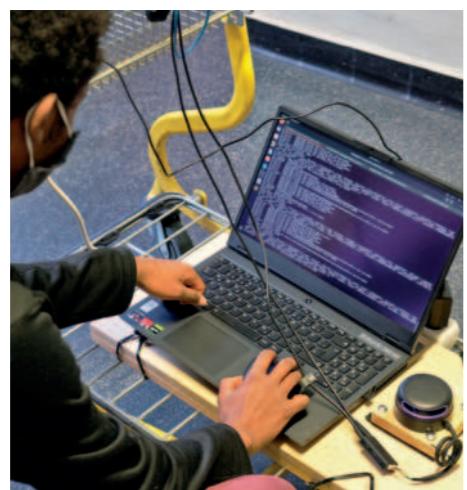
▲ Test run at the OZEANEUM Stralsund, Measuring the room using a LIDAR and a 3D camera
Source: A. Neumeister, OZEANEUM

Functions of the user interface

The user interface was developed iteratively on the basis of participatory workshops with students and then evaluated with the help of further surveys to ensure that it meets the requirements of the user community.

Search and map view

The search function can be used to search for specific people, rooms or



► Configuration of the WLAN speakers for the first indoor navigation test scenarios in building 19

other points of interest. The map view shows the user's current location and allows them to explore their surroundings on a 2D map. Multi-touch gestures make it easier to zoom and navigate.

Library and car park search

The library function can be used to search for materials such as books and magazines and the route to them can be displayed. The car park search shows available parking spaces and charging stations on campus.

Planner and canteen function

This can be used to manage course times, consultation appointments and room reservations via the planner. The canteen function provides information about the estimated waiting time, the current credit balance and the menu.

Technical realisation and integration

The implementation of the prototypes required integration into the university's existing infrastructure. Originally planned fixed loudspeaker installations were replaced by mobile solutions due to the high costs involved. This enabled the flexible and cost-effective use of ultrasound technology.

The project team developed an editorial system based on WordPress for the efficient management and provision of maps and location markers, which also offers interfaces to other building information and content management systems such as Stud.IP. Initially, a Microsoft Access database was used, which was later converted to an SQL database to ensure seamless integration into the editorial system.

Result and outlook

The INAFeR project has shown that it is possible to develop an efficient, ultrasound-based indoor navigation system. The combination of advanced ultrasound



▲ Test run at Wismar University of Applied Sciences with business informatics students



technology, user-friendly interface and connection to existing systems offers a comprehensive solution for orientation in large building complexes.

The knowledge gained and technologies developed form the basis for future applications in building management as well as in areas such as healthcare and the public sector.

The close cooperation between Wismar University of Applied Sciences and DEJ Technology GmbH has highlighted the approach of creating practical solutions through innovative projects and at the same time driving forward research activities.

◀ Fig. left: At the end of the project, the Koopango test app will be tested by students and employees of Wismar University of Applied Sciences and representatives of the project organiser, Technologie-Beratungs-Institut (TBI) GmbH.



Short title: INAFeR
Funding reference number: TBI-V-1-329-VBW-113
Project period: 02/2019 – 02/2022
Project budget: 211.000 €
Funding: EU - EFRE
Project management: Prof. Dr.-Ing. Matthias Wißotzki
Web: www.hs-wismar.de/forschungsprojekte/inafe



Planning on demand through experience at the push of button

The utilisation of experience-based process knowledge is an important work organisation factor in companies. In order to secure and efficiently pass on such knowledge, a system is needed to record and provide process information in line with requirements.

Faculty of Engineering



ARTIFICIAL INTELLIGENCE TO ENSURE THE TRANSFER OF EXPERIENCE IN THE GENERATIONAL CHANGE OF SMES

The joint objective of the KüSTE project was to develop digital and adaptive methods to secure and efficiently pass on knowledge gained from experience in companies. The collection and needs-based provision of process knowledge was to be redesigned on the basis of selected operational case studies. These were to be incorporated into an overall ergonomic concept that takes into account the promotion of individual creativity, decentralised work execution, regional specifics and demographic characteristics. In addition to the development of technical solutions, labour science issues were also addressed.

Scientific and technical status at the start of the project

Roland Larek, Professor of Production Engineering and Factory Planning at Wismar University of Applied Sciences, and Dr. Jan C. Wagner, then a research assistant at Wismar University of Applied Sciences, together with the research findings of Prof. Christian Gade, Professor of Business Administration, in particular Human Resources, Personnel Management and Organisation at the Schwerin University of Applied Sciences of the Federal Employment Agency. To describe work processes in terms of documentation, the network planning technique is

used, which is also used when planning new processes and can be displayed and analysed numerically in the form of an adjacency matrix. This principle can be found in many well-known planning systems, from Microsoft Project and manufacturing execution systems to planning modules in enterprise resource planning systems. The problem with this concept



is that only one possible target process can be stored. However, both when planning processes and when recording experience-based process knowledge, it often becomes clear that there is far more than one possible process and that the different process variants are more or less suitable or more or less efficient

▲ Both fig.: Assembly tests on sheet metal containers with virtual support

depending on the boundary conditions. This knowledge has so far been lost in conventional network planning technology. In practical application, this leads to the existing process description losing at least some of its validity when faults occur and having to be spontaneously



▲ Digitising and passing on experiential knowledge



► Motion analysis with AI support for the assembly of hall segments

replanned. The concept of the „maximum network plan“ served as the basis. This method helps to analyse and evaluate complex and extensive technological process chains with various alternatives. The special feature here is that in the event of disruptions in the flow of

the prioritised target process, the most favourable alternative process chain can be identified and made available to all those involved. In this way, it is possible to react within seconds, whereas human decisions take hours or days. Errors and misjudgements are also eliminated.

State of the art in science and technology at the end of the project

As part of KüSTE, the development of the MNP and its embedding in technical systems was driven forward. A system consisting of three components (front-end input, front-end output, back-end) was developed to store and reproduce the knowledge of people with experience. The system was installed and set up on site at the companies.

The backend consists of two parts: the MySQL server and the Python programme. The MySQL server is the basis for the databases. The knowledge of the experience carriers is stored in the databases. Experience knowledge is entered via the front end in database 1. The process structure is stored as an adjacency matrix in database 2.

The Python programme generates these and creates them for each stored process. The output frontend displays the process information to the user. To do this, it uses information from DB1 and additional information. As soon as the users interact with the web interface, the information is transferred to the databases. The Python programme registers these changes and calculates a new process for execution.

Employees store their knowledge in the form of process descriptions in the web-based input frontend. For security reasons, the web server is set up so that it cannot communicate with other companies. People can only use the system if their devices are connected to the com-



The available knowledge is displayed as required during the respective process execution, so that employees only receive the information that is relevant for the execution of the respective process step.

Benefits for the company, in particular usability of the results

The pressure on companies to retain existing expertise in the long term has increased due to the general shortage of personnel. The results of the project offer an opportunity to pass on existing



knowledge directly from person to person to the next generation. The system makes it possible to store the knowledge of experienced employees and utilise it even after they have left the company.

◀ Fig. left: Augmented reality opens up new possibilities for digital interaction

◀ Detailed view of the virtual assembly instructions



Short title: KüSTE
Funding reference number: 02L20Bo68
Project period: 07/2021 – 06/2024
Project budget: 3.000.000 €
Funding: BMBF
Project management: Prof. Dr.-Ing. Roland Larek
Web: www.hs-wismar.de/forschungsprojekte/kueste



The medicinal herb from the laboratory – Painkiller production of a new kind

The benefits of the hemp plant as a natural pain-relieving natural resource are increasingly recognised.

To produce cannabinoids artificially, plant genes are transferred to the slime mould *Dictyostelium discoideum* for the production of THC.

Faculty of Engineering



PRODUCTION OF CANNABINOID S IN DICTYOSTELIUM DISCOIDEUM – DEVELOPMENT OF A BIOLOGICAL CHASSIS

„Nature is the best pharmacy“ is what Sebastian Kneipp is said to have stated around 150 years ago, and he probably already had a rough idea of the diversity of plant-based active ingredients. However, attempting to isolate or synthesize a pure substance is a complex and expensive process. Biotechnological processes in combination with synthetic biology could be the answer.

The aim of the „ProDICAN“ project is to produce pure cannabinoids such as tetrahydrocannabinol („THC“) and cannabidiol („CBD“). The slime mould *Dictyostelium discoideum*, into which plant genes for the production of THC have been transferred, plays a central role in this. Wismar University of Applied Sciences (Falk Hillmann) and CeBiTec at Bielefeld University (Johann Kufs) are currently working together on the joint project in the GO-Bio initial funding line of the Federal Ministry of Education and Research.

From cannabis to pharmaceutical tetrahydrocannabinol

Cannabinoids are already used to treat a variety of conditions, including chronic pain, epilepsy and mental disorders. However, with the increasing legalisation of medicinal cannabis in many countries, the demand for standardised and



high-quality active ingredients is also growing. Dried hemp flowers – known as marijuana – contain significant amounts of CBD and THC. For example, 1 gram of dry flower material may easily contain 100 mg of THC, 10 % of its total weight. Assuming a marijuana retail price of 10 euros per gram – i.e. 10 euros per 100 milligrams of THC – the price for a whole gram of THC would therefore be an acceptable 100 €. However, the 100 other cannabinoids and terpenes contained are problematic, as their chemical similarity makes it almost impossible to separate the THC according to pharmaceutical purity standards.

The current alternative is synthesis in a

▲ Structural diversity of the more than 100 known cannabinoid compounds from the hemp plant

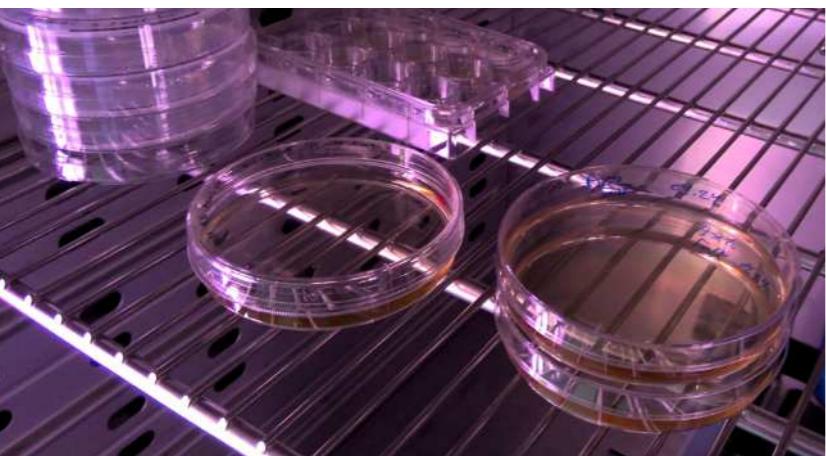
▲ Fig. above: Field with industrial hemp

chemical laboratory. Since 2017, a fully synthetic THC derivative has been available on the German market under the brand name Canemes®.

One capsule currently costs € 15-20 and contains 1 milligram of the pure active ingredient. The retail price for chemically synthesised high-purity THC is therefore around € 15,000/g.

Biotechnology and synthetic biology as an alternative

The production of chemically complex active ingredients with the help of micro-



▲ Incubation of *Dictyostelium* cell cultures



► Laboratory bioreactor for the production of cannabinoid precursors with *Dictyostelium*

organisms is nothing new. Many antibiotics have been produced using moulds (e.g. in the production of penicillin) or bacteria (e.g. in the production of streptomycin) since the middle of the last century.

In terms of process engineering, it was advantageous to counteract low concentrations of active ingredients with mass

cultivation in bioreactors with a volume of several thousand litres and at the same time to optimise growth and production conditions. The cultivation of strains with higher synthesis rates also contributed to a considerable reduction in production costs.

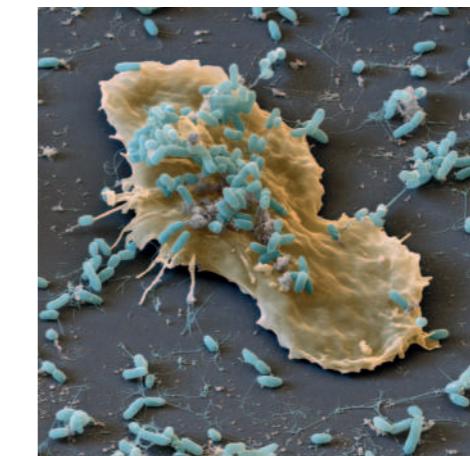
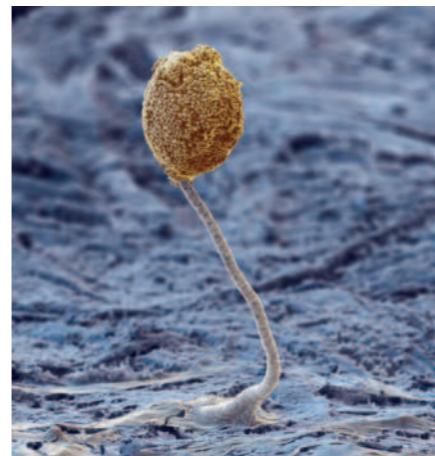
But what happens when organisms and their active ingredients are extremely difficult to access using technical production processes? Insulin for diabetes patients initially had to be laboriously isolated from animal pancreases until it was first produced using the intestinal bacterium *Escherichia coli* at the end of the 1970s. The human gene for insulin was transferred to the bacteria, which then produced the human hormone in bioreactors in a fast, yet resource-efficient and reproducible manner.

While the transfer of a single gene was sufficient for insulin, more than 10 foreign genes have to be moved in order to completely represent the biochemical reaction pathway of a cannabinoid. The precise knowledge of a complex biosynthetic pathway, the genes involved and their transfer to a new organism can be summarised as synthetic biology. Typical recipients of foreign genes are the simplest microorganisms such as bacteria or yeasts.

In fact, it is already possible to produce THC in baker's yeast. The production quantities have not yet reached marketable concentrations and it is questionable whether the generally rather narrow biochemical make-up of yeasts even allows a higher content of plant-based active ingredients in production.

THC production with the unicellular organism *Dictyostelium discoideum*

Alternative host cells could be part of the solution. *Dictyostelium discoideum* used to be considered a slime mould,



whereas today we know that the „slime mould“ is actually a fruiting body made up of hundreds of thousands of single-celled amoebae.

Although they are not classified as animals, plants or fungi, amoebae combine many of their characteristics. What also makes *Dictyostelium* a promising production organism is the possibility of cultivating the cells en masse without any health risks. In addition, they can be genetically modified and – especially with regard to cannabinoids – have an existing set of enzymes for the biosynthesis of similar molecules.

The project focuses on the development of *Dictyostelium* into a biotechnological platform that can be used to produce THC as well as other plant substances.

For this purpose, cannabinoid biosynthesis genes from the hemp plant – *Cannabis sativa* – are introduced into the genome of *Dictyostelium discoideum*.

The development of a novel hybrid enzyme that makes it possible to shorten the biosynthesis pathway to THC by several steps has already been a particularly great success. This enzyme and the production of THC with *Dictyostelium* have already been patented.

Another work package focuses on the further development of a biotechnological process that can already be used to run bioprocesses in an industrially relevant volume of 200 litres. The regulatory approval of the production process is also being worked on, as a finished medicinal product produced with amoebae would be uncharted territory.

◀ Fig. top left: Scanning electron micrograph of a *Dictyostelium* fruiting body with spores, 450x magnification
Source: eye of science

◀ Fig. top right: Scanning electron micrograph of a *Dictyostelium* cell feeding on bacteria, fruiting body with spores, 7000x magnification
Source: eye of science



Short title: ProDICAN
Funding reference number: 16LW0129K
Project period: 04/2022 – 10/2024
Project budget: 142.000 €
Funding: BMBF
Project management: Prof. Dr. rer. nat. Falk Hillmann
Web: www.hs-wismar.de/forschungsprojekte/prodicanc





Digital transformation for a sustainable future in tourism

Building automation, energy monitoring, smart hotels, data protection and IT security as well as digital planning and production and the networking of tourism services in rural areas promote the competitiveness of regional small and medium-sized enterprises.

Faculty of Architecture and Design



DIGITIZATION OF THE SME SECTOR IN TOURISM IN THE JOINT PROJECT SME 4.0 COMPETENCE CENTRE ROSTOCK

As part of the „Initiative Mittelstand-Digital“ funded by the Federal Ministry for Economic Affairs and Climate Protection, the „Mittelstand 4.0-Kompetenzzentrum Rostock“ was founded in October 2017 with the aim of supporting small and medium-sized companies from Mecklenburg-Vorpommern on their way from analogue to digital working life.

To achieve this goal, the University Medical Centre Rostock (UMR, healthcare industry), the Institute for Implant Technology and Biomaterials e. V. Warnemünde (IIB e. V.) in cooperation with the Institute for Production and Polymer Technologies e.V. Wismar (medical technology), Stralsund University of Applied Sciences in cooperation with Wismar University of Applied Sciences, Neubrandenburg University of Applied Sciences (tourism industry), Fraunhofer IGP Rostock (production) and IT Initiative MV e. V. have joined forces.

Wismar (medical technology), Stralsund University of Applied Sciences in cooperation with Wismar University of Applied Sciences, Neubrandenburg University of Applied Sciences (tourism industry), Fraunhofer IGP Rostock (production) and IT-Initiative MV e.V. have joined forces and developed a broad portfolio of support services to increase the digital expertise of small and medium-sized enterprises. The team at Wismar University of Applied

Sciences has focussed on the topics of building automation, energy monitoring, smart hotels, data protection and IT security, digital production of objects for tourism and digital networking of tourism offers in rural areas. The most important research results include:

„SMART Hotel“ – Intelligent solutions in the hotel industry, data protection and IT security

(Sub-project management: Prof Martin Wollensak, Prof Dr Antje Raab-Düsterhoff)

▼ Project result „Leitfaden SMART Hotel“

Übersichtskarte Mittelstand 4.0-Kompetenzzentren und Themenzentren
Stand August 2018

Mittelstand-Digital informiert kleine und mittlere Unternehmen über die Chancen und Herausforderungen der Digitalisierung. Die geförderten Kompetenzzentren helfen mit Expertenwissen, Demonstrationsanlagen, Best Practice Beispielen sowie Netzwerken, die dem Erfahrungsaustausch dienen, dabei. Der Fokus liegt auf der Entwicklung von Lösungen für die Praxis und der Förderung alter Angebote von Mittelstand-Digital. Das CDR Projektträger begleitet im Auftrag des BMVI die Projekte fachlich und sorgt für eine leichter- und mittelständergerechte Umsetzung der Angebote. Das Projekt wird von der Wirtschaftsförderungsagentur Mecklenburg-Vorpommern (Wirtschaftsministerium und Wirtschaftsförderungsbehörde) (Wirtschaftsministerium und Wirtschaftsförderungsbehörde) (WWK) unterstützt mit wissenschaftlicher Begleitung, Vermittlung und Öffentlichkeitsarbeit. Weitere Informationen finden Sie unter www.mittelstand-digital.de

Mittelstand 4.0 Kompetenzzentrum Rostock

LEITFADEN SMART HOTEL
Innovationen im Hotelbetrieb

Intelligente digitale Lösungen im Tourismus

Mittelstand-Digital

Universität Rostock
Wirtschaftswissenschaften
Institut für Produktion und Polymer-Technologie

As part of the project, the „SMART Hotel Guide“ was developed, which explains the possibilities of digital networking of building technology using age-appropriate

▲ Fig. above: Augmented reality to try out during the North German Timber Construction Days

priate, energy-efficient and sustainable digital technologies. Digitalisation is a process – which is why a three-stage system was developed to help hoteliers assess the level of digitalisation of their own hotel, learn about the potential of new technologies and gain an overview of the market and its possibilities.

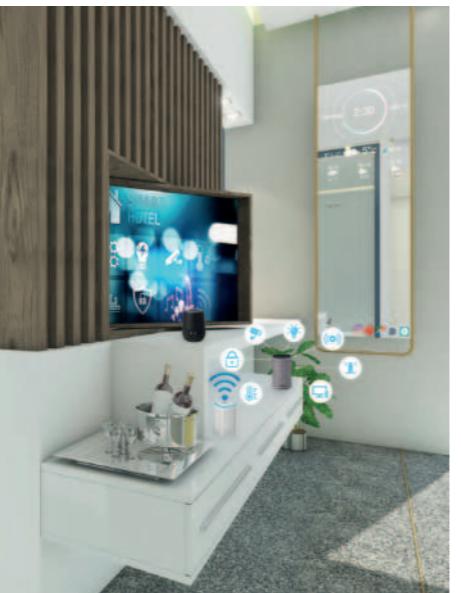


► Example of a SMART hotel room

Various components from the areas of public relations, management, buildings and mobility are assigned to the three levels SMART, SMART plus and all SMART. The categorisation is based on the criteria of effort, costs and benefits. Furthermore, important information and tips on data protection and IT security are dealt with in a separate chapter.

As part of the project, concepts and solutions for specific applications of digital technologies were developed in close cooperation with companies. The SMART-Strandhotel Otterndorf is

an example of such an „implementation project“. Here, the family business „Fredebohm Touristik Inhaber Ole Fredebohm e.K.“ was supported in particular in the creation of a SMART hotel concept as well as in the creation of a sustainability and energy concept for the planned new building „Strandhotel Otterndorf“.



▼ AI workstation at Wismar University of Applied Sciences



The aim here is to achieve the „SMART plus“ level (medium standard): targeted use of digitalisation measures for more sustainable and energy-saving hotel operations as well as simultaneous user-friendliness for all visitor groups (with and without smartphones). In the area of buildings, for example, a complete building automation system could be considered; in the area of mobility, an e-vehicle charging infrastructure, expansion of the existing stock of e-cars and e-bikes and integration of e-mobility into the hotel's energy concept are planned.

„Garden of Metropolises“ – Website for the promotion of rural areas in Mecklenburg-Vorpommern
(Sub-project management: Prof Andrea Gaube)

The geodata-based „Garden of Metropolises“ portal was developed and made available in order to network tourist offers such as activities, wellness &

health, museums and cultural events as an interface between tourism, the health industry and medical technology.

The presentation and elaboration of the case studies carried out in the project on various businesses and offers make it clear that the rural area is a place of regional value creation and deceleration, which can be strengthened and promoted with the website and together with the various stakeholders.

„Digital House“ – Digital design, planning and fabrication in timber construction
(Sub-project management: Prof Julian Krüger)

The „Digital House“ project shows the realisation and prototypical production of a holiday home for Mecklenburg-Vorpommern using comprehensive digital technologies, both in development and production as well as in later use. Digital production methods were used for this demonstration object to ensure



a variable and reduced lightweight construction system. The „Digital House“ is



located on the grounds of the Faculty of Design at Wismar University of Applied Sciences and can be visited at any time.

Transfer of digital applications to the construction industry in the joint project Mittelstand-Digital Zentrum Rostock

The new joint project Mittelstand-Digital Zentrum Rostock builds on the findings and results of the Mittelstand 4.0 Competence Centre Rostock.

▲ „Digital House“ under construction

◀ Fig. left: „Digital House“ on the university campus



Short title: DigiMED&TOUR
Funding reference number: 01MF17005E
Project period: 05/2018 – 02/2023
Project budget: 726.000 €
Funding: BMWK
Project management: Prof. Dipl.-Ing. Martin Wollensak
Web: www.hs-wismar.de/forschungsprojekte/digimedtour

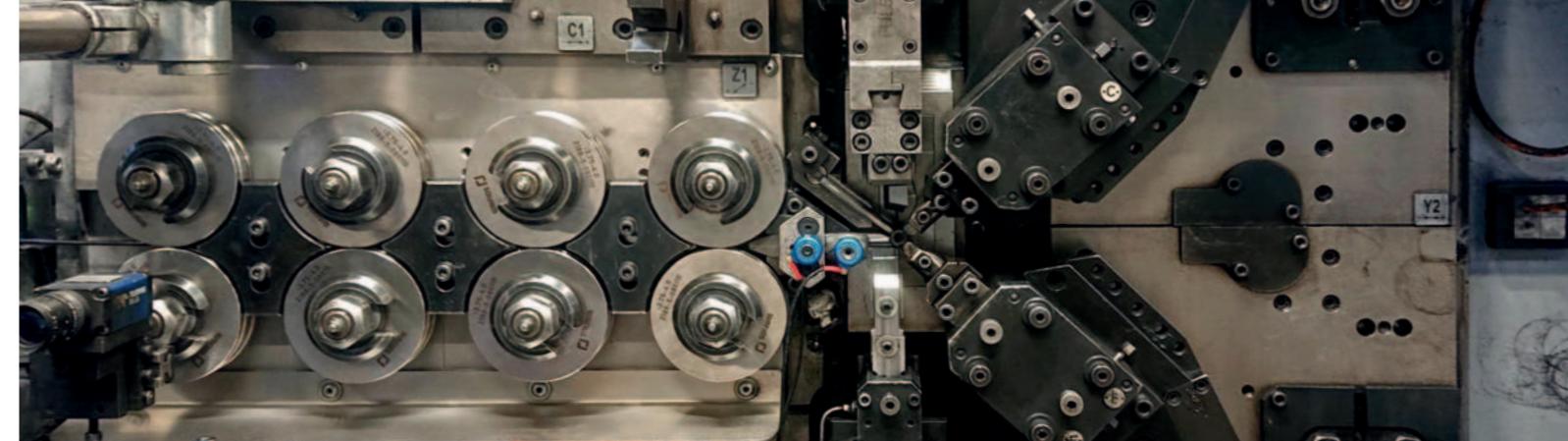


Danger recognised, Danger averted – On the trail of microcracks

Technical springs are used in a variety of industrial applications. The low price of a spring is offset by the high follow-up costs that are often incurred if a spring breaks.

The control of crack formation is therefore an important preventive measure.

Faculty of Engineering



CRACK DETECTION USING ACOUSTIC EMISSION IN THE APPLICATION ION COMPONENTS IN THE SPRING INDUSTRY

Technical springs play a central role in many industrial applications, for example as valve springs in engines or as axle springs in vehicles. Despite their simple design and comparatively low price, springs are highly stressed components whose failure can have serious consequences. Small defects such as cracks in a valve spring can cause considerable damage. Early detection of cracks is therefore of crucial importance for the safety and reliability of vehicles.

Problem definition and research objective

During the production of spring wires, the manufacturing process can cause microcracks, which can later grow during spring production or use and lead to failure. In addition, mechanical or corrosive surface damage during production can trigger cracks. To date, there is no non-destructive in-process monitoring to control the formation of cracks during the production of springs.

The aim of the research project was to develop an in-situ monitoring system for detecting crack initiation and growth during spring coiling using acoustic emission analysis. In addition, a software solution was to be developed that analyses the recorded acoustic signals and clearly assigns them to different damage

mechanisms. This innovation makes it possible to „hear“ cracks during production and thus take preventive measures.

Research results

The laboratory tests on various steel wires have shown that neither the melt and material batch nor the wire diameter, type of stress or speed influence the acoustic emission signal typical of cracks. This finding allows the system developed to be used universally in industry.



▲ The scanning electron micrograph shows intergranular failure due to hydrogen-induced cracking.

Strategies for automatic in-situ crack detection were developed and validated as part of the project. The results prove the suitability of acoustic emission analysis for the detection of microcracks during spring coiling under real industrial conditions. The technology was successfully implemented with industrial partners, demonstrating its transferability into practice.

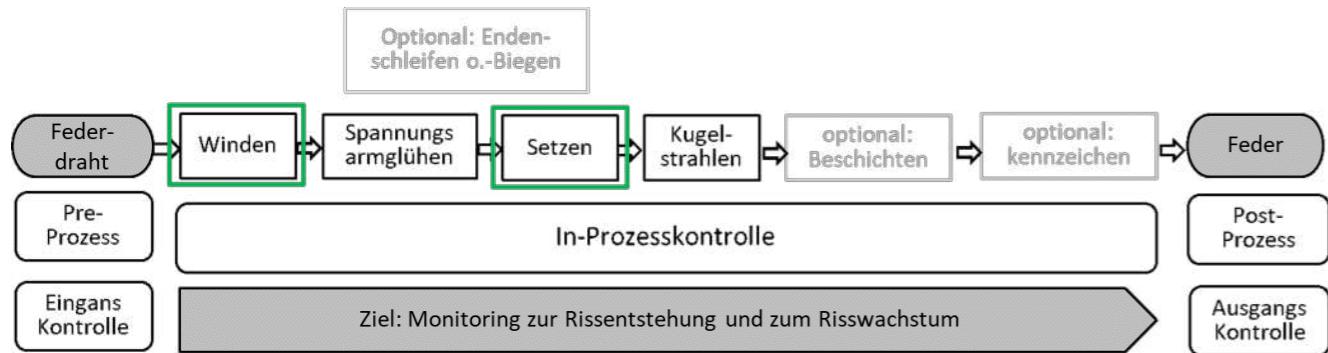
It has been demonstrated that acoustic emission analysis can be used not only to detect cracks, but also to differentiate between different damage mechanisms. For example, it is possible to differentiate between intercristalline cleavage fracture, as occurs in hydrogen-induced cracking, and transcrystalline honeycomb fracture. This differentiation makes

▲ Fig. above: Acoustic sensors on a winch machine in industrial practice: The blue sensors were integrated without any further installation work.

it possible to take direct measures to prevent damage during production.

Another significant success of the project is the development of a high-resolution method that is able to detect cracks with a length of just 20 µm and a crack opening of around 0.5 µm. This provides a unique tool for the early detection of damage in production.

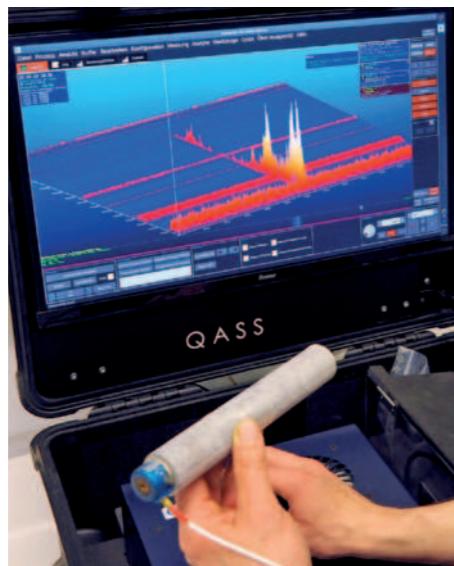
The close cooperation between Wismar University of Applied Sciences and the industrial partners illustrates how research results can be transferred directly into industrial practice. Acoustic emission analysis is an important innovation for monitoring and ensuring quality in spring production and makes a significant contribution to increasing safety in vehicles.



▲ Schematic representation of the production of cold-moulded springs. There is currently no in-process control. Integrating a monitoring tool into critical process steps could monitor the entire production process

Transfer and application in the industry

The results of the project show that the transfer of the developed technology for in-situ crack detection can be easily integrated into other applications and processes. The analysis chains and crack patterns are made available digitally in a catalogue, which makes implementation easier for users and secures the transfer.



► Acoustic emission testing: detection of crack formation and growth using the QASS Optimiser4D analytics system.

The most important findings

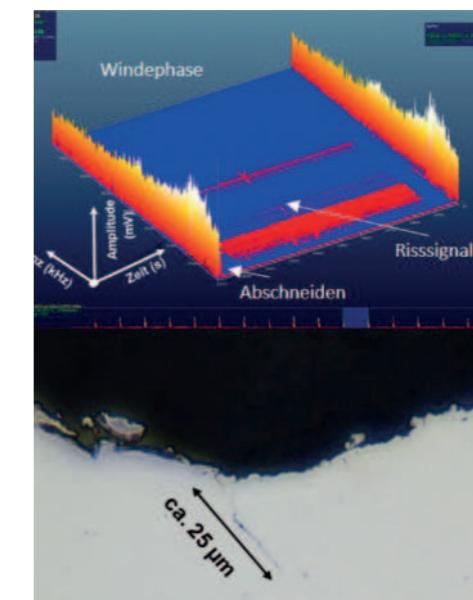
Signal analysis: The detected acoustic emission signals with different amplitudes can be assigned to micro and macro cracks. This means that the size of the crack and thus an assessment of the critical condition can be made based on the signal alone.

Independence from boundary conditions: It was shown within the extensive laboratory tests on the VDSiCr wire and spring material and by analysing the results that the melt and material batch, wire diameter, stress type and speed have no influence on the crack-typical acoustic signal. This means that the system can be used directly by the industry without further training, regardless of the boundary conditions.

Suitability for vibration tests: The smallest crack during the industrial tests, which was confirmed by scanning electron microscopy, has a length of 20 µm



◀ Use of Prof Ralf Glienke's measurement technology in a laboratory test setup: Innovative monitoring of cyclically loaded screws.



◀ 3D visualisation of the detected signals during spring coiling, including the cut-off phase, friction noises and acoustic emission signals typical of cracks.

Below: Metallographic image of a 25 µm microcrack, correlated with the detected signal.

with a crack opening of approx. 0.5 µm. This makes it the only method that can detect such high-resolution in-situ cracks.

Implementation in practice: The technology was successfully integrated and validated under real industrial conditions on a wind turbine.

High-resolution detection: The smallest crack during the industrial tests, which was confirmed by scanning electron microscopy, has a length of 20 µm with a crack opening of approx. 0.5 µm. This makes it the only method that can detect such high-resolution in-situ cracks.

Damage mechanisms: Acoustic emission analysis makes it possible to distinguish between different types of fracture, which allows direct process adjustments to prevent damage.

The research project has shown how modern measurement technology that detects acoustic waves can help revolutionise safety in spring production by enabling precise, real-time crack detection.

Project manager Mathias Lorenz was also able to complete his doctorate in this project.



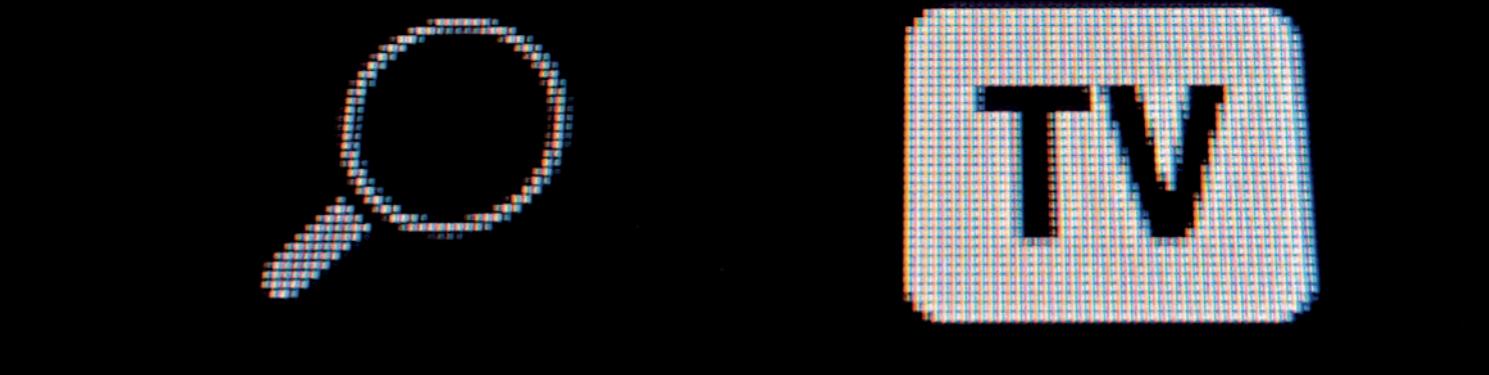
Short title: Rissdetektion SE
Funding reference number: IGF 20846BR
Project period: 10/2019 – 08/2023
Project budget: 250.000 €
Funding: BMWi
Project management: Prof. Dr.-Ing. Daniela Schwerdt
Web: www.hs-wismar.de/forschungsprojekte/rissdetektion



Aggressive Prime Time – Television at second glance

Gender-based violence is a social problem, and television makes it visible. A recent study shows that the focus is primarily on spectacular offences and stereotypes, while education and prevention are neglected.

Faculty of Architecture and Design



GENDER-SPECIFIC VIOLENCE ON GERMAN TELEVISION

Violence in society and in the media is a topic that is constantly at the centre of public debate. One specific aspect that is often neglected is the portrayal of gender-specific violence. This research project by Wismar University of Applied Sciences in cooperation with the University of Rostock, funded by the MaLisa Foundation and UFA GmbH, investigated the visibility of such representations in audiovisual media, especially in the full-length programmes of German television, between February and October 2021.

Investigation and results

The study analysed a representative sample of 545 programmes for the TV year 2021 from the three programme categories of German television: Fiction, Information and Entertainment from the 8 main channels between 6pm and 10pm. A specially developed coding guide was used to record gender-specific acts of violence, the people involved and the context. A total of 390 gender-specific acts of violence were identified in 183 of the 545 programmes examined (33%).

At 26%, crime series accounted for the largest proportion of recorded acts of violence, followed by feature films (13%), news formats (12%) and animated films (10%). Of the total of 390 recorded offences, 46% involved physical, non-sexualised violence. Around 28% related

to sexualised violence and 26% to other forms of violence. The most common offences were bodily harm (16%), followed by threats and blackmail (13%) and murder or manslaughter (13%).

Blank spaces and problematic modes of presentation

Despite the high visibility in all programme categories, it is clear that certain



aspects of gender-specific violence are barely addressed on German television. This is particularly evident in the lack of discussion of the structural dimension of violence against women, children and queer people. Furthermore, there are rarely any references to prevention ser-

▲ Project logo by Iris Groneick

▲ Fig. above: Aspects of violence as a reason to take a closer look at German TV programmes

vices or counselling centres for those affected. So-called trigger warnings, which draw attention to sensitive or explicit content, are also almost completely absent.

The analysis of crime series revealed that gender-specific violence is often instrumentalised to create suspense or tell stories about the perpetrators. This places the topic in a problematic context and neglects the perspective of the victims. In daily soaps and scripted reality

commendations for action were developed to improve the portrayal of gender-based violence on television.

These should help to promote a more sensitive and differentiated approach to the topic:

Avoidance of stereotyping and aesthetisation:

Gender-specific violence should not be used as a tension driver or aesthetic device. It should always be questioned whether the depiction is necessary for the plot.

Differentiated thematisation:

Violence must not just be portrayed superficially. A deeper examination of the background to the violence and the consequences for those affected is essential.

Avoiding the instrumentalisation of violence:

Violence should not be instrumentalised



▲ Evaluation of the information collected during the study



► Gender-specific violence was visible in one third of the programmes analysed

Source: pixabay.com

formats, sexualised violence is often trivialised by only superficially addressing the consequences for those affected. This is particularly noticeable in formats that present the consequences of violence in an unrealistic and often trivialising way.

Recommendations for action

In dialogue with media professionals and experts in victim support, initial re-

to serve other issues. The focus must be on those affected and the social context of the violence.

References to offers of help

It should be a matter of course that professional counselling centres and offers of help are referred to in programmes that deal with gender-specific violence. These should be carefully selected and checked.



◀ Violence is broadcast without prior warning or offers of help
Source: pixabay.com



me genres, but is often shown in problematic contexts.

The study highlights the urgency of discussing this topic more intensively and sensitising people to the media's portrayal of gender-specific violence. Television can make an important contribution to education and prevention through differentiated reporting that goes beyond the mere depiction of violence and sheds light on the structural causes.

The findings and recommendations for action are intended to serve as a guide for media professionals in order to deal more sensitively with the topic of gender-based violence in future and thus promote a change in awareness among viewers.

Collaboration with experts

When producing content on gender-based violence, media professionals should work closely with experts in anti-violence work and victim support in order to ensure a well-founded and responsible presentation.

Conclusion

The communication science research project has made an important contribution to systematically analysing the visibility of gender-specific violence on German television. It shows that this violence is widespread in various program-





Focus on the Inside, Therapy in View, Healing in Sight

A hyperspectral camera offers direct assistance in surgery for specific amputations and resections of the thyroid gland. Imaging offers the potential to improve the accuracy of tissue identification and the healing prognosis of amputation wounds.

Faculty of Engineering



HYPERSPECTRAL IMAGING IN SURGERY FOR DIABETIC FOOT SYNDROME AND THYROID RESECTIONS

In colour photography, a distinction is made between three colour channels – red, green and blue – similar to the human eye. These colours each represent a broad wavelength range of light. In spectroscopy, light is broken down into very narrow wavelength ranges, allowing the light absorption of different substances to be measured.

If the absorption behaviour of the substances is known, material compositions can be analysed. Hyperspectral imaging combines photography with spectroscopy by spectrally decomposing the light for each pixel and thus capturing a large number of different colours or wavelengths.

In the case of the hyperspectral camera used in the HYPERLIMIT-CAM research project, which was developed by our project partner Diaspective Vision GmbH for clinical use, there are 100 wavelengths in the range 500-1.000 nanometre.

This spatially resolved spectroscopy offers the potential for objective and reproducible assessment of human tissue. Tissue parameters such as blood flow, oxygen supply, water content and signs of inflammation or infection as well as the differentiation of different tissue types in the surgical environment can thus be recorded.

Two objectives were pursued with hyperspectral imaging. In the project described above,

1. the determination of amputation boundaries in diabetic foot syndrome/DFS should be objectified and thus facilitated. At Wismar University of Applied Sciences, fundamental investigations were carried out into the spectroscopic differentiation of vital and dead tissue using hyperspectral data.

2. tissue segmentation should be facilitated for resections of the thyroid and parathyroid glands. Algorithms should be developed at the University of Wismar that allow the segmentation of thyroid, parathyroid and lymph nodes on the basis of hyperspectral images. In addition, the autofluorescence emission of the parathyroid gland was to be detected in the near-infrared range by exciting it with light in the red to near-infrared wavelength range. For this purpose, a suitably adapted hyperspectral camera with a switchable illumination unit was to be developed by project partner Diaspective Vision.

In clinical studies with the project partners of the University Medicine Greifswald – Prof. Andreas Hoene, MD, Clinic and Polyclinic for General Surgery – and the Klinikum Südstadt Rostock – Dr. Bernd Kortmann, MD, Clinic for General,



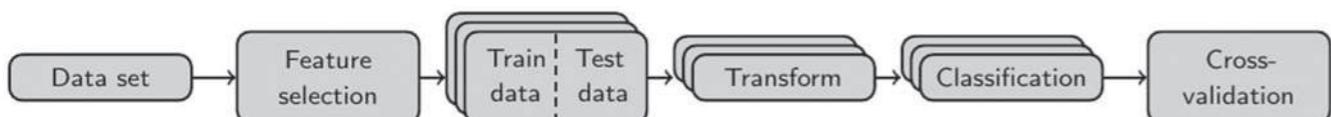
▲ Hyperspectral camera system Ti-vita® from Diaspective Vision GmbH

Visceral, Thoracic and Vascular Surgery – the aim was to prove that the use of this imaging procedure optimally supports the surgical staff intraoperatively and leads to better treatment success.

These are the results:

- extensive analyses of clinical data were carried out using algorithms already integrated in the camera and newly developed methods based on tissue-

between vital and dead tissue based on the various classifier models was then implemented. Based on the available data, the prediction of whether a wound heals or does not heal, i.e. the classification of the amputation wound, can be improved. All classifier models were subjected to cross-validation, i.e. part of the available data was used to train the model, while the remaining part was used for model evaluation.



▲ Sequence for data analysis

optical procedures and AI-based methods and used to define amputation boundaries. Various methods for data reduction and classification were combined. Some of the calculated parameters allow a basic differentiation between vital and dead tissue, a combination of parameters improves tissue discrimination. Representative features were thus identified that allow the most robust and accurate classification of amputation wounds. The boundary visualisation

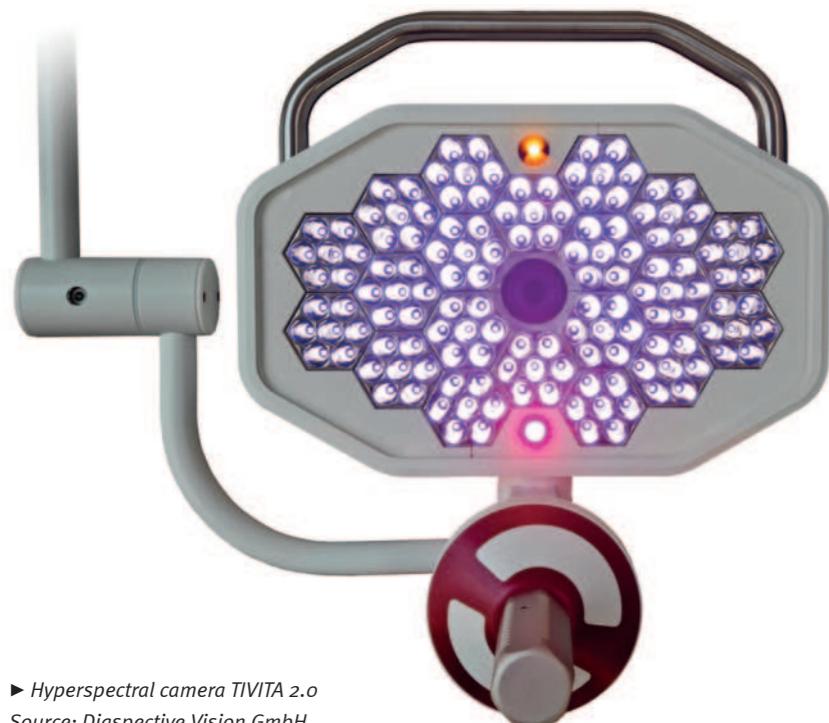
The various combinations of analysed features, data reduction methods and classification were compared using various metrics. These include the confusion matrix and derived parameters such as accuracy, sensitivity and specificity. Furthermore, the respective learning curves and receiver operator characteristics were analysed and compared with each other. With the appropriate choice, the models achieved an average accuracy of approx. 80 %.

2. The analysis of the thyroid data showed that tissue parameters such as water and fat content are also suitable as parameters for differentiating between different tissue types.

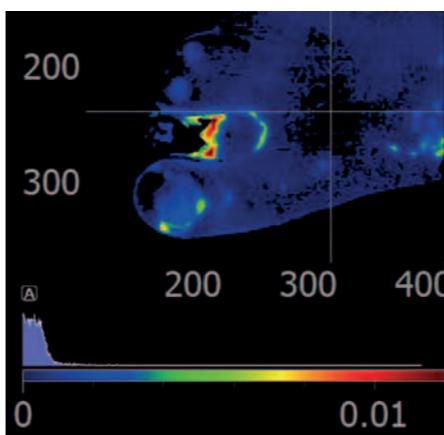
In addition, further tissue indices were developed and refined for use in the surgical field.

The calculations of the indices were checked and optimised using Monte Carlo simulations and images of substances with different compositions.

The indices obtained in this way were used to recognise the thyroid tissue. Fatty tissue on the surgical field can be recognised by the fat index. The tracheal tissue has a spectral signature that makes it distinguishable from the other tissue types in the surgical field.



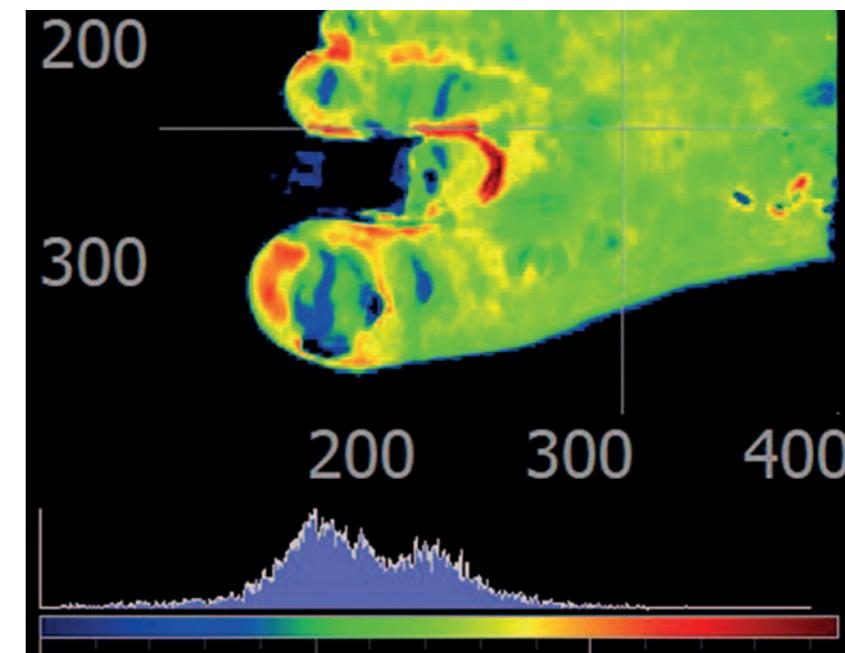
► Hyperspectral camera TIVITA 2.0
Source: Diaspective Vision GmbH



Using supervised classification approaches, it was possible in some cases to separate parathyroid tissue from other tissue.

The results achieved with the existing data and algorithms for segmenting and recognising different tissues are promising and show the potential of the methods.

In summary, it can be stated that algorithms for the differentiation between vital to dead tissue were developed and implemented in the subproject „Definition of amputation boundaries in diabetic foot syndrome/DFS“ with promising results.



In the sub-project „Resection of the thyroid/parathyroid glands“, supervised classification approaches successfully demonstrated the exemplary separation of parathyroid tissue from other tissue. Future studies aim to expand the database to further enhance classification accuracy and identify the model that generalizes best, ensuring more precise predictions.

◀ Fig. top left: Exemplary segmentation for diabetic foot syndrome/PAVK. The green to red areas represent necrotic tissue. The circle segment at the cursor position is a marker of the surgeon.

◀ Fig. above: False colour representation of the diabetic foot. The distribution of total haemoglobin in the tissue is shown, red indicates a high concentration, blue a low concentration.



Development of third-party funding

Facts – Figures – Prospects

Third-party funding is a decisive factor for research at Wismar University of Applied Sciences. They enable the realisation of innovative projects, promote scientific exchange and strengthen the university's competitiveness. They contribute significantly to the expansion of the research infrastructure and the financing of academic staff. The successful acquisition

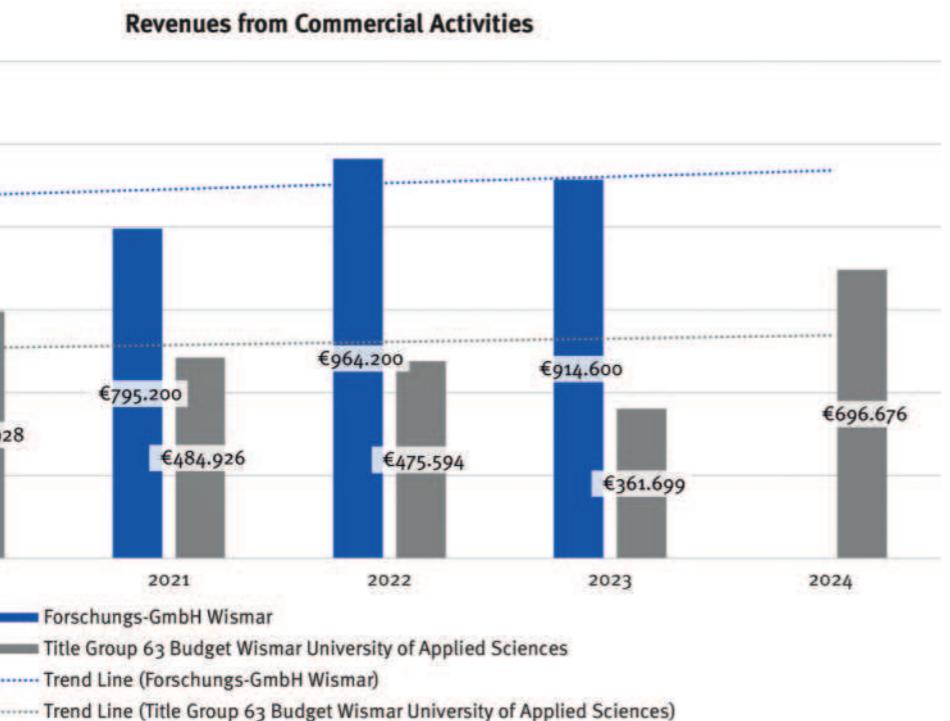
of third-party funding is a significant achievement of the academics and at the same time an important strategic success factor for the entire Wismar University of Applied Sciences.

and infrastructure. The Wismar Business School contributes 4.46 million euros and 14 per cent of third-party funding.

The international orientation of the Wismar University of Applied Sciences is reflected in particular in its successful participation in European research programmes. The university has been able to establish itself in important programmes such as Horizon 2020, Erasmus+ and INTERREG and has taken on a coordinating role in Horizon 2020 for the first time.

In addition to third-party funding, the university taps into additional sources of income through various commercial activities. These include research contracts from companies, consultancy services and further education programmes. As an innovation partner for industry, this creates long-term collaborations that enable new research projects.

The positive development of third-party funding income is also reflected in a nationwide comparison: the average third-party funding raised per professor is above the national average for universities of applied sciences. This successful balance not only illustrates the high level of research activity, but also the increasing networking with funding institutions and partners worldwide. Securing this source of funding in the long term will continue to be a central task for the strategic development of the university in the future.

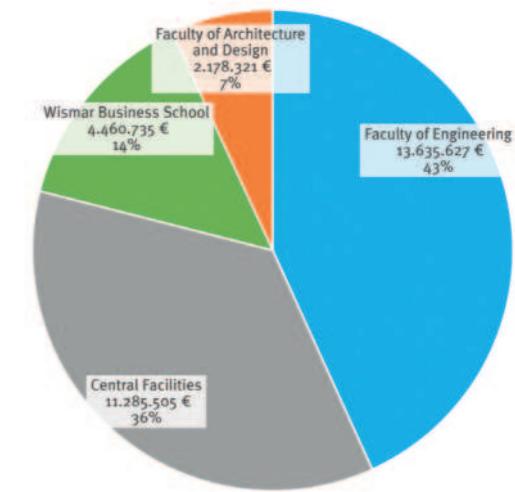


An overview of the origin of third-party research funding shows a broad diversification of donors. The European Union made the largest contribution in the reporting period with 15.3 million euros, which corresponds to 48 per cent of total funding. The federal government is the second largest

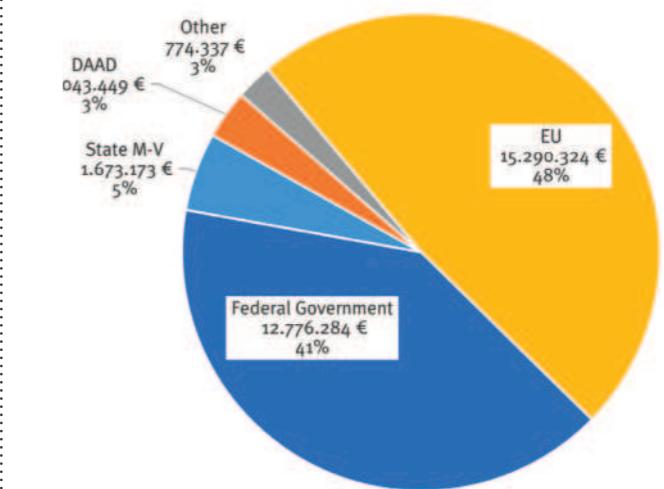
source of funding with 12.8 million euros and a share of 41 per cent. The state of Mecklenburg-Vorpommern contributed 1.67 million euros, while the German Academic Exchange Service and other donors each contributed three per cent of the funding. Within the university, third-party re-

search funding is distributed differently across the various institutions. The Faculty of Engineering occupies a leading position with 13.6 million euros and a share of 43 per cent. The central institutions use 11.3 million euros or 36 per cent of the total funds for interdisciplinary research projects

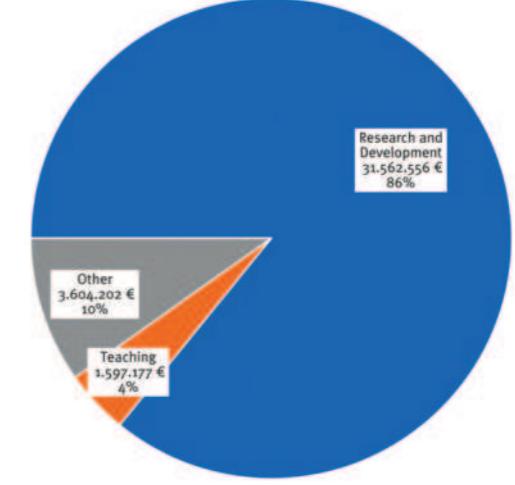
Third-Party Funding Revenues of Wismar University of Applied Sciences for research and Development by Institution 2020-2024



Third-Party Funding Revenues of Wismar University of Applied Sciences for research and Development by Body 2020-2024



Third-Party Funding Revenues of Wismar University of Applied Sciences by Purpose of Use 2020-2024



Doing a doctorate at Wismar University

Opportunities and perspectives



The co-operative promotion

In cooperation with universities or universities of applied sciences authorised to award doctorates, Wismar University of Applied Sciences enables promising young scientists to pursue a doctorate. There are currently around 40 doctoral programmes involving the Wismar University of Applied Sciences. This illustrates the relevance of the co-operative doctorate as a strategic instrument for promoting young talent and strengthening research.

The special feature of the cooperative doctorate is the close collaboration between the universities of applied sciences and universities. While the professors at the university of applied

sciences play a central role in the supervision, the examinations and the awarding of the doctoral degree are carried out by the universities. This interdisciplinary networking offers doctoral students valuable access to practical research questions and expands their academic network.

Development of the number of doctorates at the Wismar University of Applied Sciences

A look at the doctoral statistics shows a continuously positive development. The first chart illustrates the increasing number of successful doctorates at the Wismar University of Applied Sciences. The increasing number of defended dissertations

demonstrates the high quality of supervision and the academic output of the university. The second chart shows the current doctoral programmes by subject area. The engineering sciences are at the top of the list.

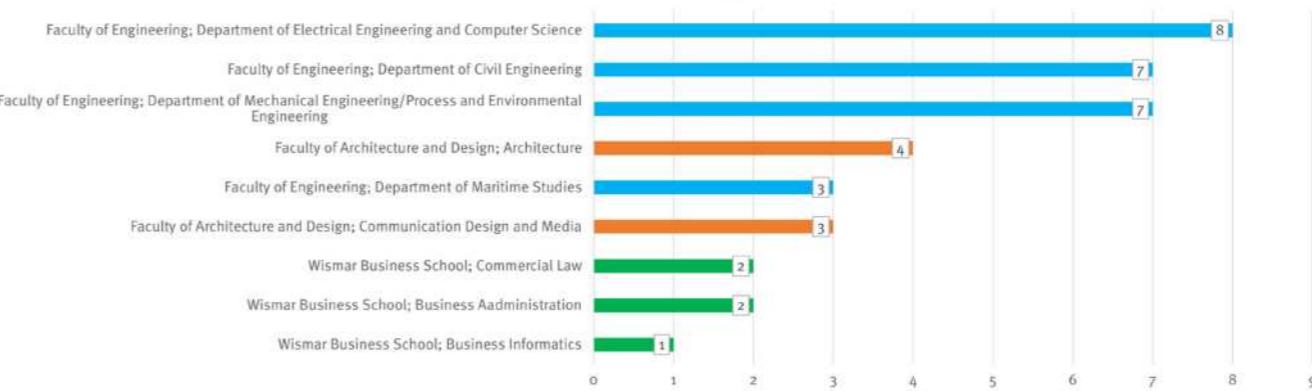
Attractive framework conditions for doctoral students

In order to create favourable conditions for doctoral candidates, Wismar University of Applied Sciences offers a wide range of funding opportunities:

Internal university doctoral scholarships:

The new funding conditions include an extended term of three years, an increase in the basic scholarship to

Ongoing cooperative doctoral projects at Wismar University of Applied Sciences by department
Status: 18.02.2025



1,500 euros and family allowances. These measures increase the attractiveness of the university for young academics. The scholarships are advertised twice a year. The university's internal doctoral scholarships are supplemented by the annual doctoral scholarship for solitary subjects offered by the State Graduate Funding Programme of Mecklenburg-Vorpommern.

Travel allowances:

The financial support for conference participation has been increased to a maximum of 1,000 euros. This enables doctoral students to present their research results nationally and internationally and to exchange ideas with colleagues.

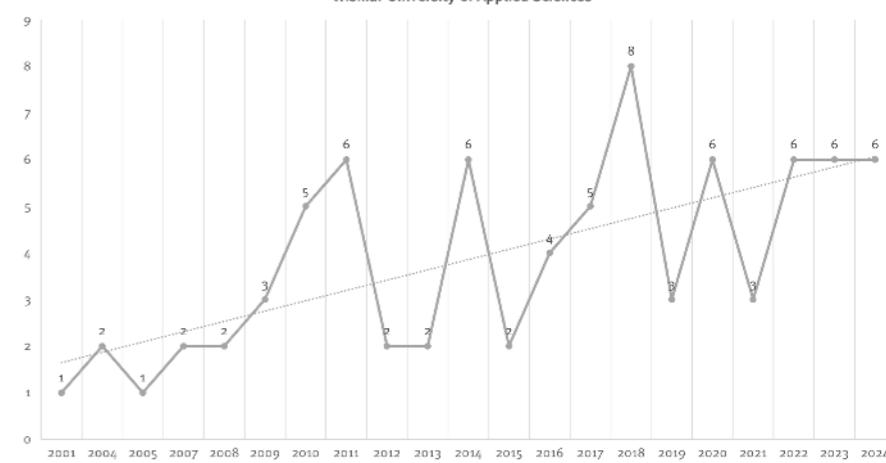
Publication fund:

Wismar University of Applied Sciences promotes open access publications in order to make scientific findings accessible to a broad public and increase the visibility of research. Doctoral students receive full reimbursement of the costs of an open access publication once a year.

Exchange and networking

In addition to financial support, the Wismar University of Applied Sci-

Completed cooperative doctorates
Wismar University of Applied Sciences



ces places great importance on the networking of doctoral students. Regular interdisciplinary exchange meetings make it possible to discuss research topics and initiate cross-university collaborations. Workshops are also offered for the acquisition of key competences.

Perspectives of the Wismar University of Applied Sciences

The right to award doctorates for universities of applied sciences is becoming increasingly important throughout Germany. Wismar University of Applied Sciences expressly supports this development. In addition, the co-operative doctorate remains a proven model that not only promotes young

academics, but also strengthens the research power of Wismar University of Applied Sciences in the long term. A list of successful doctorates can be found in the compendium at the end of this issue.

Further information on doctoral programmes at the Wismar University of Applied Sciences at:
www.hs-wismar.de/forschung/wissenschaftlicher-nachwuchs

◀ Fig. left page: Rector Prof Bodo Wiegand-Hoffmeister opens an exchange meeting for doctoral students at the university

Laboratories, devices & equipment

Modern facilities for teaching and research



The importance of large scientific devices

Wismar University of Applied Sciences is equipped with large-scale scientific equipment that is above average in a nationwide comparison. These modern facilities are essential for the successful realisation of demanding research projects and the practice-oriented education of students. Large-scale scientific equipment promotes interdisciplinary collaboration and strengthens the university's position as a driver of innovation in Mecklenburg-Vorpommern. They also enable the establishment of international co-operatives and the acquisition of additional third-party funding.

Scientists benefit from the opportunity to submit applications for large-

scale equipment to support their research work. The university provides counselling services to facilitate the process and further increase the success rate.

Types of investment

Large scientific equipment at Wismar University of Applied Sciences is financed via various programmes with different requirements and focuses:

1. Large-scale equipment of the federal states: This programme enables the funding of large-scale equipment that is primarily used for teaching. Applications are assessed by the German Research Foundation (DFG), and Wismar University of Applied Sciences has had a success rate of 100 per cent to date.

This high success rate demonstrates the quality of the concepts submitted.

2. Large-scale research equipment: As part of this programme, the DFG provides funding on a pro rata basis (50 percent). The other half is financed by the state of Mecklenburg-Vorpommern. The requirements for these applications are particularly high, as the equipment must be used primarily for research. Large-scale research equipment is indispensable for innovative projects that are characterised by supra-regional significance and often also promote cooperation with industrial partners.

3. Small large appliances: Appliances costing between 75,000 and 99,999 euros are assessed in-house. The de-

cision is made on the basis of a short application, which is reviewed by internal university committees and subsequently by the state of Mecklenburg-Vorpommern. This allows us to react flexibly to specific research needs.

4. European Regional Development Fund (ERDF): The focus here is on expanding research and innovation capacities. The universities bear 25 per cent of the costs themselves, while the remaining funds are provided by the ERDF. This funding particularly supports the regional innovation strategy and strengthens the link between science and industry.

5. Other large-scale equipment: With a budget of 200,000 euros per year, additional investments can be made in exceptional cases. These funds are

used, for example, to support newly appointed professors in raising their own contribution for ERDF large-scale equipment applications.

The Senate and the Rectorate decide on these investments after careful consideration.

Development of order values

The bar chart on the following page illustrates the funding successfully applied for by Wismar University of Applied Sciences for large scientific equipment in the period from 2021 to 2024 (planning corridor 2021-2025).

In 2021, the focus of funding was on the „Large-scale equipment of the federal states“ programme with a contract value of 407,992.57 euros. In addition,

193,937 euros were provided for small large devices.

The total order value increased significantly in the following year 2022. The „Large appliances of the federal states“ programme made a significant contribution of 577,010 euros to the funding, while small appliances contributed 82,684 euros. In addition, ERDF funds totalling 33,915 euros were approved.

The year 2023 was characterised by renewed funding from the „Large-scale equipment of the federal states“ programme of € 407,992.57 and small-scale equipment of € 191,902. ERDF funds were not approved during this period due to delays in the application processes of the state of M-V.

Successfully Applied for Investments (Contract Value) for Large Scientific Equipment
Wismar University of Applied Sciences
Planning Corridor 2020-2025



In 2024, however, ERDF funding dominated with a contract value of € 502,656. The great importance of the federal state programmes, in particular the „Large-scale equipment of the federal states“ programme, which made a decisive contribution to funding, should be emphasised. The data presented illustrates the continuous successful acquisition of funding. This development makes it clear that the university is successful in acquiring funding for large-scale equipment and makes targeted investments in pioneering technologies. A complete list of the large-scale equipment successfully acquired in the reporting period can be found in the attached compendium.

Medical technology laboratory

The medical technology laboratory at Wismar University of Applied Scien-

ces impressively illustrates how innovative technologies can be used to overcome social challenges. One example is the camera-based system for Ambient Assisted Living (AAL). It combines state-of-the-art infrared and RGB camera technologies to contactlessly record vital data such as body temperature and heartbeat. In addition to hardware and software development, the focus is on AI-supported analyses. The aim is to provide data protection-compliant and cost-efficient solutions for care and telemedicine.

The laboratory also offers practical access for students. They can work on pioneering technologies here and gain valuable insights into the fields of artificial intelligence and medical technology. The establishment of the medical technology lab in 2021 has strengthened the collaboration between Professors Simanski, Kraitl and

Hornberger. Their expertise in automation technology, medical sensor technology and camera-based wound diagnostics strengthens the university's position in this pioneering field. The knowledge gained will also be incorporated into the „Applied Medical Technology“ degree programme.

Improvement of the ship simulator

At the Rostock-Warnemünde site, the Maritime, Systems Engineering and Logistics division benefits from the globally unique Maritime Simulation Centre Warnemünde (MSCW).

This centre enables joint simulation of nautical and technical ship operations, including shore-based support from traffic control centres. It is primarily used for the practical training of students who will work on board ships as future ship officers.



The simulator was extensively modernised during the reporting period.

Universal testing machine

In September 2024, a new universal testing machine was installed in Baumweg in Wismar. With a tensile force of up to 600 kN and a torsion of 2,000 Nm, it is one of the most powerful devices of its kind.

The machine is used for both research and teaching and enables material tests to be carried out under extreme conditions. The Materials and Mechanics/Design working groups in particular use the testing machine to analyse high-strength steels, innovative joining techniques and large components.

The extensive equipment makes it possible to analyse the mechanical properties of materials under different load conditions. In addition

to classic tensile and compression tests, highly specialised tests, such as the determination of torsional properties at high temperatures, can also be carried out. This makes the facility a valuable tool for materials research at the university.

Students are also actively involved in working with the universal testing machine. Internships and project work include tensile, bending and torsion tests, which provide practical insights into materials research. The close integration of research and teaching strengthens the skills of graduates and increases their attractiveness on the labour market.

Conclusion

Large-scale scientific equipment is a key factor in the success of Wismar University of Applied Sciences. They create the conditions for outstanding

research and practice-orientated teaching. Through targeted investment and the strategic use of these resources, the university remains an important driving force for innovation and progress - regionally, nationally and internationally.

At the same time, this equipment increases the university's visibility in the research landscape and promotes its long-term attractiveness for academics. Members of the university are encouraged to actively use the opportunity to submit applications in order to further expand the research infrastructure and realise new projects.

▲ Delivery and installation of the universal testing machine at the Baumweg location

◀ Fig. on the previous double page:
Renewal of the simulator in the MSCW at the SAL area in Rostock-Warnemünde

Research data management

at the University of Wismar and in Mecklenburg-Vorpommern



Research data management as the key to science and innovation

Research data is a central resource of scientific work. Its sustainable management and utilisation are crucial for scientific excellence, innovative strength and the acquisition of third-party funding. Wismar University of Applied Sciences is aware of this importance and is actively involved in the field of research data management (RDM). The structured handling of data is becoming increasingly relevant, particularly with regard to the requirements of research funding bodies such as the German Research Foundation (DFG) or EU programmes such as Horizon Europe.

Wismar University of Applied Sciences is a member of the Text+ consortium, which was founded as part of the National Research Data Infrastructure (NFDI), a nationwide network to secur-

re and further develop research data management. It was also involved in the state-wide project „Datenkompass M-V“ (DKMV), which supported the application-oriented acquisition of skills in the areas of research data management and data science. The project ran from July 2023 to December 2024, enabling the university to make an important contribution to the development of a state strategy for research data management in Mecklenburg-Vorpommern.

Prof Frank Krüger and his commitment to research data management

Special thanks go to Prof Frank Krüger's working group, which has been instrumental in the development and expansion of research data management at Wismar University of Applied Sciences and beyond. He initiated the participation of the Wismar University of Applied Sciences in the

Text+ consortium and is actively involved in the nationwide network FDM@HAW to strengthen the universities of applied sciences in the National Research Data Infrastructure (NFDI), a nationwide network to secure and further develop research data management. The working group contributes its expertise in presentations and workshops at regular nationwide events (e.g. LoveDataWeek). Prof Frank Krüger is a sub-project leader in the DFG Collaborative Research Centre 1270 ELAINE, in which methods for research data management are developed and applied.

He is also a member of a state-wide working group on the National Research Data Infrastructure (NFDI), in which Wismar University of Applied Sciences is the only UAS in the state to be represented. His expertise and commitment contribute significantly to that the Wismar University of Ap-

pplied Sciences plays an active role in the further development of research data management at state and national level.

Datenkompass M-V: A state-wide initiative

The „Datenkompass M-V“ project was launched to support researchers, scientific institutions and research-related companies in Mecklenburg-Vorpommern in developing and expanding expertise in the field of research data management and data science. The DKMV pursued the goal of establishing a nationwide data expertise network that bundles the strengths of various scientific institutions. Teaching and learning materials, software tools and guidelines were made available via a central platform. The target groups were scientific and technical staff, scholarship holders and companies in the field of data science.

A key feature of the project was the needs assessment for research data management and the development of a joint concept for a state initiative for research data management in M-V and the implementation of the FAIR principles (Findable, Accessible, Interoperable, Reusable), which enable the sustainable use and re-use of research data. The Wismar University of Applied Sciences worked closely with other colleges and universities in the state, including the universities of Greifswald and Rostock as well as the universities of Neubrandenburg and Stralsund.

Perspectives and significance for the Wismar University of Applied Sciences

In addition to the scientific and practical research benefits, systematically established research data ma-

nagement also offers opportunities for acquiring third-party funding. Research funders are increasingly emphasising transparent and sustainable data strategies.

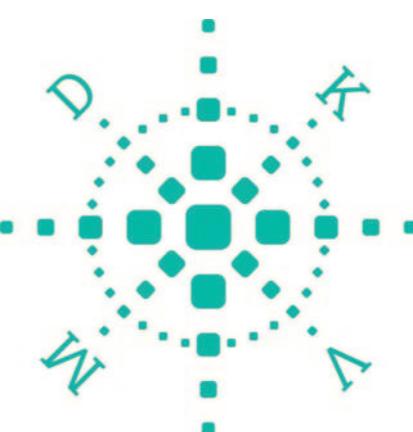


▲ The Data Compass MV project partners
Source: Emily Feldt/University of Greifswald

◀ Fig. left page: 80 representatives of universities, industry, infrastructure and research institutions from Mecklenburg-Vorpommern met on 8 November 2024 at the networking meeting Research Data Management at the University of Greifswald.

Source: Tim Schröter/University of Greifswald

◀ DKMV Logo





Support for researchers

Service and offers

As a University of Applied Sciences (HAW), Wismar University of Applied Sciences stands for practice-oriented teaching and innovative research. With a wide range of services and a modern infrastructure, it offers researchers ideal conditions. The aim is to promote the transfer of knowledge and create added value for science and society through close co-operation with regional companies and international partners.

Subsidy counselling

Researchers at Wismar University of Applied Sciences benefit from comprehensive funding advice that covers all phases of a research and innovation project – from the initial idea to commercialisation.

Consultant for European funding advice: The European Funding Counselling Officer supports researchers in the planning, preparation and submission of applications in accordance with EU directives.

Technology and innovation consultant: The technology and innovation advisor is aimed at researchers and companies who are planning new projects or want to further develop existing ideas. He advises on federal and state funding and arranges cooperations with external institutions and companies.

Forschungs-GmbH Wismar as a service organisation: As a subsidiary of Wismar University of Applied Sciences, Forschungs-GmbH offers comprehensive support for research projects. As a service provider in the field of project management and consulting, it supports both the university's academic staff and external companies:

mic staff and external companies:
» *Research on current tenders*
» *Accompanying the application through to approval*
» *Financial and contract management*



proved start-up funding for projects that are later to be supported by EU or federal funds.

Rules of procedure for safeguarding good scientific practice

The university has adapted its rules of procedure to the DFG guidelines. In doing so, it emphasises the importance of scientific honesty and quality. www.hs-wismar.de/forschung/ausderforschung/ombudsperson/

With these programmes, Wismar University of Applied Sciences not only creates sustainable added value for its researchers, but also positions itself as an important player in the field of innovation and research.

Funding advice team:
www.hs-wismar.de/forschung/ausderforschung/forschungsfoerderung

Wismar University of Applied Sciences not only offers a wide range of services, but is also specifically involved in important areas:

Internal university research funding
By increasing the budget to EUR 100,000, researchers are offered im-

▲ Fig. above: Information event on DFG funding at the Innovationport



New Research priorities at Wismar University

Leading the way for science and innovation



Targeted definition of research specialisations (FSP) not only sharpens the university's scientific profile, but also creates the basis for successful acquisition of third-party funding. Funding bodies attach great importance to project proposals being clearly assigned to a research focus. These focal points serve as strategic orientation and emphasise the university's expertise in specific research fields.

The new research specialisations are the result of an intensive consultation process coordinated by the Vice-Rector for Research and the Senate Committee for Research and Innovation with the involvement of the faculties. Their structure is based on the guidelines of the German Rectors' Conference (HRK), which are decisive for inclusion on the HRK's research map. Publication on this platform, planned for 2025, will make the university's research activities more visible both nationally and internationally and serve as proof of quality when applying for third-party funding.

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		Research focus I	Research focus II	Research focus III
Profile	Knowledge society, sustainable mobility and value creation in the global transformation	Sustainable objects, urban structures, materials and processes	Life Science, Automation und Informationstechnik	
Specialisms	Civil engineering and architecture, humanities, computer science, systems and electrical engineering, social and behavioural sciences	Civil Engineering and Architecture, Computer Science, Systems and Electrical Engineering, Mechanical and Production Engineering, Materials Science and Engineering, Thermal Engineering/Process Engineering	Biology, computer science, systems and electrical engineering, mechanical and production engineering, materials science and materials engineering, medicine	
Keywords	Global markets and (digital) trade, sustainable mobility, maritime transport and maritime systems, communication, value and economic supply chains, sustainable transformation processes	Construction, production engineering, process engineering, materials, products, urban/rural development	Big data and AI applications, secure and networked systems, mechatronics, medical technology, health, autonomous systems	
Short description	Globalisation and unstable economic and political conditions are creating challenges for which solutions are being developed in the areas of shipping, international trade relations and law, environmentally friendly mobility, digital networking, communication design and media.	In view of climate change and increasing population growth, the focus is on the development of resource-efficient solutions in terms of decarbonisation and the circular economy with special consideration of sustainable and innovative materials as well as planning and manufacturing processes.	This topic area develops concepts, methods and technologies that manifest themselves in interoperable solutions via appropriately networked infrastructures, applications and data, temporarily or permanently as required, with a focus on innovative production, process or digital ecosystems.	

The research database: transparency and visibility

The research database plays a central role in the visibility of research activities at Wismar University of Applied Sciences. The web-based platform provides a comprehensive overview of the university's research projects and presents it as an institution with a strong research focus. In addition

to basic information on third-party funding and funding organisations, condensed texts, images and links enable quick research. A new feature is the automated display of projects on the pages of the respective research focus areas. The database's filter functions facilitate targeted searches and make the platform attractive for both researchers and external partners.

Database:
www.hs-wismar.de/forschungs-db

Research focus:
www.hs-wismar.de/forschungsschwerpunkte

◀ Fig. left page: Laboratory situation in the Malchow branch on the island of Poel

For self-motivated students and teaching

The StartUpYard at Wismar University

StartUpYard. Simply do it.

Makerspaces are places where people can meet and try things out. They were initialised as FabLabs – fabrication laboratories – at elite American universities in the early 2000s in order to provide students and teaching staff with a place to acquire skills that had previously hardly found their way into teaching.

This idea was primarily initiated by the engineering sciences, but today the approach is understood much more broadly and includes all interested parties, regardless of discipline.

Access to 3D printers, laser cutters, CNC milling machines and other machines and devices should enable the person concerned to produce individual items themselves.

There is also a community aspect. The networking of people from different disciplines leads to an exchange and the acquisition of interdisciplinary and transdisciplinary skills.



In 2020, Wismar University of Applied Sciences did not have a place where students could pursue their own ideas outside of the curriculum, learn in an interdisciplinary way and prototype their own ideas. There was also no infrastructure available that could have been used for a FabLab approach. This is because these sites depend above all on actual accessibility with regular opening hours.

A variety of laboratories were available at the Wismar campus, but these were dedicated exclusively to teaching and were consequently designed and treated like traditional classrooms. They were not accessible to all students.

The Robert Schmidt Institute was commissioned to establish a makerspace on the campus in Wismar as part of project funding from the BMBF's StartUpLabs@FH programme, which was acquired in 2019 and implemented from May 2020.

The name „StartUpYard“ emphasises the aspect of promoting start-ups in a port city – loosely translated as the shipyard for good ideas. This can benefit significantly from interdisciplinary approaches: increased innovative strength and the probability of success of start-up projects are the result if the collaboration of an interdisciplinary start-up team is successful in the long term.



▲ Situation of a well-attended workshop
◀ Fig. left side: Student works on a free form in the StartUpYard
Source: Sara R. Scholl



Vogelperspektive mit Blick in Zone 1 und 2. Visualisierung eines vorangegangenen Planungsstandes. Zum Verständnis des Raumkonzeptes.

In order to make the StartUpYard premises appear as an alternative to traditional classrooms, a design approach by students for students was chosen.

A student project group went into direct dialogue with the manufacturer of the container buildings already favoured at the time. The interior design, choice of materials, room layout and many other issues were thus determined directly by the future users. The state property office merely specified the framework conditions for public construction.

This experience also led to the upgrading of the project's student assistants: they were not meant to be assistants in the traditional sense, but rather „pilots“ with their own responsibility for projects and areas of the StartUpYard. Another critical success factor was the fact that the project team had already considered



the values that the new place for interdisciplinary encounters should represent and live by at the start of the activities.

This resulted in a framework for setting up and commissioning the makerspace that all team members were able to follow. This includes, among other things, the complete abandonment of the seal in order to avoid barriers between the StartUpYard team and the learners.

In addition, the „make-most-anything“ approach has given way to an „accessible to everyone“ approach with regard to the machinery. The focus of every machine purchase was therefore on comprehensible operability, with the performance of the devices taking a back seat in case of doubt. All potential users at Wismar University of Applied Sciences should be able to learn how to use the machinery themselves under supervision.



As new users with and without previous knowledge are added every semester, the necessary training courses result in permanently high personnel requirements.
A meeting place thrives on people

who actually meet. To initiate this, the StartUpYard still runs an extensive programme of events, which has developed over the course of the project. The programme is based on three pillars: Community events for networking, technology workshops for learning new skills and abilities and so-called impulses for teaching key qualifications that can support the individual career ambitions and extracurricular interests of students and staff.

A makerspace as an institution of extracurricular education can also support the regular operations of a university. The targeted inclusion of selected curricular events specifically designed for makerspace operation in the event programme creates added value for students and teaching staff.

Students benefit from a learning environment that thrives on experimentation and therefore emphasises seminar and workshop formats. Teachers benefit because they can often achieve better group results through alternative didactic concepts.
After Wismar University of Applied

Sciences was able to develop a viable financing model for the StartUpYard, the interdisciplinary makerspace became a permanent part of the university on 1 November 2024. This means that the now and in the future open work and meeting place is available to all members of the university.



◀ Fig. top left: Visualisation of a draft for the interior design by interior design students Vivien Abart, Tabitha Stephani and Marrin Nissen and product designer Lydia Hentschel

◀ Fig. bottom left: A hand-designed board with current dates is placed in front of the canteen every day

▲ Fig. above: Invited guests are interviewed on specific topics in Zone 3 of the StartUpYard

◀ Fig. left: Adjustment of a 3D printer

Research for practice

The IPAM at Wismar University improves patient care



The Institute of Pharmacoeconomics and Drug Logistics (IPAM) at Wismar University of Applied Sciences has been involved in health-related care research since it was founded in 2011. The scientific approach of the institute has a very practical background: Innovations in the healthcare sector, particularly in the field of pharmaceuticals, are typically tested in clinical trials.

The participants in these studies represent a highly selected group for analytical and statistical reasons – they are usually younger and have no other illnesses.

The study participants often have little in common with the patients who later receive the authorised drugs.

Healthcare research with health insurance data

This is where IPAM's research comes in: The Institute analyses outpatient, inpatient and drug-related care under „real world“ conditions. Data from health insurance companies is particularly suitable for this research due to its breadth – it contains outpatient and inpatient diagnoses and procedures, all prescriptions and days of incapacity for work. This data is available for each patient without gaps over several years.

The IPAM has concluded co-operation agreements with two major institutions: AOK PLUS, with almost 4 million insured persons in Saxony and Thu-

ringia, and GWQ Service PLUS AG, a service provider for health insurance companies with more than 20 million insured persons. Both data sets have been used to conduct numerous studies with national and international partners in recent years.

Innovation through data linking

A particular methodological strength of the IPAM lies in the linking of different data sources. Although health insurance data is a valuable resource, it has the limitation that relevant clinical information such as laboratory values, symptoms or mutation data is not available in oncology. In a pioneering co-operation between IPAM,

AOK PLUS and the University of Greifswald, a framework has been developed that makes it possible to link cli-

than 100 research abstracts were presented at national and international conferences with the participation of IPAM.



nical data from hospitals or doctors' practices with health insurance data.

Current research: Breakthrough in multiple sclerosis

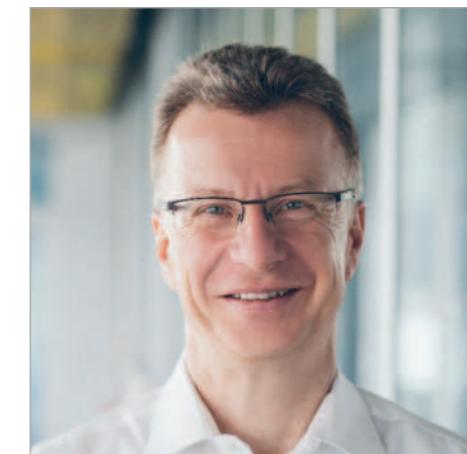
A current example of the IPAM's successful work is a research project on multiple sclerosis (MS). In collaboration with the Centre for Clinical Neurosciences at TU Dresden and AOK PLUS, a combined data set of 700 MS patients has been created. This links data from the innovative patient management system MSDS3D with health insurance data. The data set is unique in Germany and pioneering for Europe.

A significant methodological success is the development of a three-stage score that measures disease progression solely on the basis of health insurance data. This makes it possible for the first time to evaluate therapies on a large scale under everyday conditions.

Scientific excellence

The scientific quality of IPAM research is reflected in almost 200 publications in renowned medical and health economics journals. In addition, more

▼ Successful partnership in the multiple sclerosis research project: the Centre for Clinical Neurosciences at TU Dresden



◀ Prof. Dr Thomas Wilke is a member of the IPAM Board of Directors

Innovations for the production of tomorrow

Production Technology Institute WAVE gGmbH



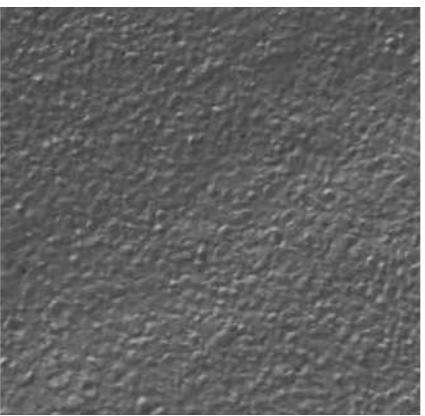
Foundation and objectives

Scientific applications, processes and developments – this is what the Production Technology Institute WAVE, founded in 2021 as a non-profit limited liability company and based in Wismar, stands for. The institute, which is affiliated with Wismar University of Applied Sciences, acts as a research and development partner for regional companies in particular and offers cross-industry solutions and research concepts along the value chain. The institute now has nine employees with various degrees and qualifications who work in a scientific capacity.

Professor Tassilo-Maria Schimmel-pfennig and his research group work together with companies to develop targeted solutions that are individually tailored to the company's interests and requirements. For example, intensive support is provided from the creation of a research and development strategy or conceptualisation and prototype design through to the market launch of a new product or machine system for in-house production. In recent years, machine tools, precision components and process technologies have

been developed for the dental industry – the machines are used in dental laboratories to manufacture implant-supported dental prostheses.

These research activities give rise to new ideas for products and processes for medical technology applications and beyond.



Research foci and projects

The institute's research focuses on precision engineering and the miniaturisation of components through the use of high-performance materials.

Based on these competences, the

production engineering solutions for processing high-performance materials such as technical ceramics and hard metals are being researched.

In the project, which will run until the end of 2026, engineers from various fields are working together to solve the technical challenges. The diverse activities of the scientific staff range from concept design, calculation and numerical design of the mechanical and electronic components to the construction of the prototype and testing the performance of the product. By working on the contents of the project, new solutions for current problems in the industry are created. For example, the development of a process technology for the production of high-precision mechanical components has identified the need for a process chain for the manufacture of industrially relevant high-performance components - an approach that is to be realised with another company in the region.

Manufacturing technology issues relating to the post-processing of surfaces that fulfil a medical technology purpose are currently being addressed as part of a joint research project. This involves the targeted mi-

crostructuring and coating of individualised orthopaedic implants using innovative approaches. The biological assessment of the coatings and the effect of the novel surfaces on the ingrowth behaviour in the bone are being tested by the experimental research laboratory of the Department of Orthopaedics at Greifswald University Hospital.

The interdisciplinary nature of this project, in which mechanical engineers cooperate with medical professionals and cell researchers, aims to develop new types of material constructions and consequently provide innovative therapeutic strategies.



The optimisation of existing machine tools and manufacturing processes is another focus of the institute's research.

One example of this is a project with a medium-sized company from Wismar that produces for the mechanical engineering industry. The institute is developing a monitoring system for its existing production facilities and optimising its processes in terms of wear and efficiency. Sensors and AI-based analysis techniques are used to investigate the dynamic behaviour of the machine tools. In a subsequent

step, the company's manufacturing processes are optimised and employees are trained in the monitoring system.

Benefits and cooperation

By carrying out the above-mentioned projects in applied research, companies are strengthened in their innovative power. They introduce new procedures and technologies and improve their products or services. The WAVE Production Technology Institute provides support, offers methods for answering scientific questions and researching new production approaches.

The group of scientists, scientific, student and volunteer staff conduct research into a wide range of applications for innovative production technology approaches.

A strategic cooperation links the Production Technology Institute WAVE gGmbH with the Wismar University of Applied Sciences – in which potential research topics are transferred and results are published in a targeted manner. In addition to the creation of new ideas for third-party funded projects in the field of production technology, the findings of the research projects are incorporated into the teaching content of mechanical engineering.

In this way, current problems in the manufacturing industry are discussed with the students and practical teaching topics are taught.



▲ Crimping using a test bench to determine the crimping force



▲ Logo of WAVE gGmbH

◀ Fig. left: Eroded titanium workpieces after machining with microstructuring

◀ Fig. top left: The headquarters of WAVE gGmbH in TGZ Wismar

◀ Left side centre: Microstructure produced by electrical discharge machining

Research projects (terminated in the reporting period)

	Short title	Title	Management	Funding Project supporter	Project period
■	ALBINA	Potenzielle algenbasierter Bioschmierstoffadditive - Gewinnung, Einsatz und technische Eigenschaften	Prof. Roland Larek	BMEL, FNR	04/2019 - 03/2022
■	AMMA	Adaptive Armierung geometrischer komplexer zementgebundener Formkörper	Prof. Asko Fromm	DFG	03/2017 - 04/2022
■	Amöbophag	Molekulare Muster zur Erkennung und Diskriminierung von Pilzen während der Phagozytose durch räuberische Amöben	Prof. Falk Hillmann	DFG	05/2022 - 12/2023
■	Autoklav-XRD	Untersuchungen zur Phasenbildung und Gefügeentwicklung bei Porenbeton zwecks Sulfatreduzierung und Prozessoptimierung	Prof. Winfried Malorny	BMW, AiF	04/2017 - 08/2020
■	Bacteria-CAM	System zur Beurteilung des Keimbesatzes von Wunden	Prof. Christoph Hornberger	EU-EFRE, TBI	11/2017 - 06/2020
■	BALTIMARI	Überprüfung, Bewertung und Zukunft des maritimen Risikomanagements in der Ostsee	Dr. Michael Gluch	EU, BONUS EEIG	10/2018 - 06/2020
■	CADMUSS	Methode zur Kollisionsvermeidung auf Schiffen und an Land (polnisch-deutsches Gemeinschaftsprojekt MarTERA)	Prof. Michael Baldauf, Dr. Michael Gluch	BMW, PTJ	09/2020 - 08/2023
■	CAPE-VET	Deutsch-südafrikanisches Gemeinschaftsprojekt zur Hochschulqualifizierung von Berufsbildungskräften	Prof. Michael Schleicher	BMBF, DLR	04/2019 - 12/2022
■	Change-3	Entwicklung und modellhafte Erprobung patientenorientierter Kommunikationsstrategien	Prof. Arwed Voß	BMG	02/2017 - 01/2020
■	CoDi	Entwicklung eines softwarebasierten Diagnosewerkzeugs für große Verbrennungsmotoren	Prof. Karsten Wehner	WM M-V	01/2019 - 02/2022
■	Common(Re)Constructor	Common(Re)Constructor – Ein Ort gemeinschaftlichen Wiederaufbaus	Prof. Fromm, Dipl.-Ing. Daniel Hülseweg	Sto-Stiftung, HSW	01/2023 - 12/2023
■	Connect2SmallPorts	Kleine Häfen als Tore zu nachhaltigen europäischen Verkehrssystemen und Blue Growth durch intelligente Konnektivität	Prof. Gunnar Prause	EU-EFRE	07/2018 - 06/2022
■	CoolSim	Entwicklung von neuartigen Spritzgusswerkzeugen	Prof. Tassilo-Maria Schimmelpfennig	BMW, AiF	07/2021 - 05/2024
■	CTCC	Zusammenarbeit kreativer traditioneller Unternehmen	Prof. Gunnar Prause	EU-EFRE	07/2017 - 06/2021
■	DDR Sonderbauten	Sonderbauten der DDR-Moderne	Prof. Matthias Ludwig	BMBF, DLR	03/2017 - 02/2020
■	Diagnostik4Life-MobiMia	Entwicklung einer Hyperspektralkamera für die Wundbetreuung in der Pflege	Prof. Christoph Hornberger	BMW, VDI VDE IT	10/2020 - 11/2022
■	DigiMED&TOUR	Digitalisierung des Mittelstandes im Tourismus im Verbundprojekt Mittelstand 4.0-Kompetenzzentrum Rostock	Prof. Martin Wollensak	BMW, DLR	05/2018 - 02/2023
■	DigSmart	Digitalisierung in Archäologie und Tiefbau - Entwicklung von Planungsprogrammen und Smart Services	Prof. Roland Larek	BMW, AiF	05/2022 - 07/2024
■	EmissionSEA	Emissionsbewertung, -reduktion und -vermeidung von Schiffen durch Evaluation von AIS-Signalen	Prof. Karsten Wehner	BMVI, TÜV	08/2018 - 07/2021
■	FluPS	Entwicklung eines Fluid-Partikel-Schwingungstilgers mit optimierten Dämpfungseigenschaften	Prof. Kersten Latz	BMW, FZ Jülich	01/2020 - 06/2022
■	GALILEOnautic2	Autonomes Navigieren und optimiertes Manövrieren von kooperierenden Schiffen in sicherheitskritischen Bereichen	Prof. Olaf Simanski	BMBF, DLR	10/2018 - 09/2021
■	GGTV	Geschlechtsspezifische Gewalt im deutschen Fernsehen	Prof. Christine Linke	MaLisa/UFA	02/2021 - 10/2021
■	H2S-Biogas	Entwicklung und Optimierung einer innovativen Verfahrenstechnik für die Schwefelwasserstoff-Entfernung aus Biogas	Prof. Wolfgang Pfeiffer	BMW, AiF	09/2019 - 08/2021
■	HamF	Halbautomatisiertes modulares Fertigungssystem für überwiegend manuell geprägte Prozessketten	Prof. Tassilo-Maria Schimmelpfennig	BMW, AiF	11/2019 - 10/2021
■	HiRegion	HiRegion - Hochschule in der Region. Gemeinsam den Wandel gestalten mit Kooperationen, Netzwerken & Digitalisierung	Prof. Udo Onnen-Weber	BMBF, PTJ	01/2020 - 04/2022

Research projects (terminated in the reporting period)

	Short title	Title	Management	Funding Project supporter	Project period
■	HKF-DachDämm	Charakterisierung und Validierung eines Dämmstoffes für Gebläsemaschinen auf Basis von Hanfkurzfasern	Dr. Gesa Haroske	BMW, VDI	09/2019 - 08/2021
■	HOGEMA	Erforschung neuartiger Ansätze zur Bereitstellung verbesserter Gewebeersatzmaterialien	Prof. Daniela Schwerdt	LaGuS, PTJ	09/2018 - 05/2022
■	HO-SY	Standardholzbausysteme für öffentliche Gebäude	Prof. Wollensak	BMEL, FNR	11/2021 - 10/2024
■	HWI-PLAN	Klimawandelangepasste kommunale Infrastrukturplanung in der Hansestadt Wismar	Prof. Bärbel Koppe	BMUV, ZUG	01/2021 - 04/2023
■	HyperlimitCAM	Hyperspektrale Bildgebung zur Definition von Amputationsgrenzen bei Gefäß- und Schilddrüsenerkrankungen	Prof. Christoph Hornberger	EU-EFRE, TBI	10/2020 - 03/2023
■	INAFeR	Indoor-Navigation mit hoher Auflösung auf großen Flächen, entlang von Fluren und in einzelnen Räumen	Prof. Matthias Wißotzki	EU-EFRE, TBI	02/2019 - 02/2022
■	Inno-Emaille	Emaille-Beschichtung auf maritimen Fahrzeugen und Objekten durch induktives Aufschmelzen und Einbrennen	Prof. Marion Wienecke	BMW, FZ Jülich	03/2017 - 02/2020
■	Inno-KS	Hochwertiger Kalksandstein mit Recyclingmaterial aus Porenbeton zur Steigerung der Ressourceneffizienz	Prof. Winfried Malorny	EU-EFRE, TBI	01/2021 - 06/2023
■	InterMarE South Baltic	Internationalisierung der maritimen Wirtschaft der südlichen Ostsee	Prof. Gunnar Prause	EU-EFRE	07/2017 - 06/2021
■	ISMA	Intelligentes Störungsmanagement	Prof. Roland Larek	BMBF, VDI	10/2019 - 09/2022
■	JAP	Partizipative Gestaltung und gemeinsame Aktionsprojekte für eine nachhaltige Entwicklung	Prof. Silke Flaßnöcker	DAAD	04/2019 - 03/2022
■	KomRegSim	Entwicklung eines Kompaktreglers und Simulators für RLT-Anlagen	Prof. Olaf Simanski, Prof. Olaf Hagendorf	EU-EFRE, TBI	04/2019 - 07/2022
■	KunstModell	Kunsthistorische Systembeschreibung von Modellen und Kunstwerken aus den alten Kulturen Nordafrikas	Prof. Susanne Deicher	BMBF, DLR	07/2018 - 09/2021
■	KÜSTE	Künstliche Intelligenz zur Sicherung des Transfers von Erfahrung im Generationenwechsel von KMU	Prof. Roland Larek	BMBF, DLR	07/2021 - 06/2024
■	LIGHT4HEALTH	Auf Gesundheitsforschung basierende innovative offene Bildungsressourcen und -werkzeuge	Prof. Michael Rohde, Asst. Prof. Karolina M. Zielinska-Dabkowska	EU-Erasmus+	10/2018 - 08/2021
■	MCS-blades	Mineralische Oberflächenbeschichtungen für Dampfturbinen-Kompressorschauflern	Prof. Marion Wienecke	BMW, AiF	08/2018 - 07/2020
■	MED-WET	Verbesserung der Bewässerung und Wasserversorgung für Kleinbauern im Mittelmeerraum	Prof. Tassilo-Maria Schimmelpfennig	EU-Horizon 2020	06/2021 - 10/2024
■	MFBG-CDM	Massive serielle FBG-Sensornetzwerke mit CDM-Interrogation	Prof. Andreas Ahrens	BMBF, VDI	07/2019 - 06/2022
■	Mikro-Irrigation	Transnationale Partnerschaft für die Umsetzung einer Mikrobewässerungstechnologie	Prof. Michael Schleicher	BMBF, DLR	06/2019 - 10/2020
■	Modulare Wachsschalung	Untersuchungen zur Eignung der Non-Waste-Wachsschalungstechnologie für die Fertigung von Betonbauteilen	Dr. Franz Wirth, TU Braunschweig	BMW, AiF	04/2017 - 06/2020
■	NBLab	„Nature-Based Living-Lab“ für ein interdisziplinäres praxisbezogenes Forschungssemester zur nachhaltigen Entwicklung	Prof. Marcus Hackel	EU-Erasmus+	11/2020 - 10/2023
■	OpalPLUS	Entwicklung eines Indikators zur Erkennung der Adsorbersättigung bei der Leberdialyse	Prof. Marion Wienecke	BMW, VDI	05/2018 - 04/2020
■	PCMZ	Verwendung von PCM in Betonbauteilen zur Steigerung der Wärmespeicherfähigkeit	Prof. Asko Fromm	BMW, AiF	07/2021 - 06/2023
■	ProDICAN	GBi1M: Produktion von Cannabinoiden in Dictyostelium discoideum – Entwicklung eines biologischen Chassis	Prof. Falk Hillmann	BMBF, VDI VDE IT	04/2022 - 10/2024

Research projects (terminated in the reporting period)

	Short title	Title	Management	Funding Project supporter	Project period
■	ProThermoWand	Entwicklung eines neuartigen Wandelementen mit hoher Dämmwirkung auf Basis von Reflexionszonen	Dr. Gesa Haroske	BMWi, AiF	04/2019 - 03/2021
■	ProVO	Entwicklung eines Komposit-Dichtungsmaterials für mehrfach gekrümmte Ebenen	Dr. Gesa Haroske	EU-EFRE, TBI	07/2019 - 05/2022
■	Rissdetektion SE	Rissdetektion mittels Schallemission in der Anwendung an Bauteilen der Federnindustrie	Prof. Daniela Schwerdt	BMWi, AiF	10/2019 - 08/2023
■	SIDYN	Modellierung von Stromerzeugern im Inselbetrieb mit dynamischen Netzlasten	Prof. Christian Fink	BMBF, VDI	01/2020 - 06/2023
■	SMART_watch	Netzwerk regionaler Zweigstellenobservatorien für Märkte in Mitteleuropa	Prof. Gunnar Pause	EU-EFRE, GAPR	06/2017 - 05/2020
■	Test-4-SME	Labornetzwerk für die Prüfung, Charakterisierung und Konformitätsbewertung von elektronischen Produkten	Prof. Gunnar Pause	EU-EFRE	10/2017 - 09/2020
■	ThymAquaReflux	Entwicklung eines Verfahrens zur gezielten strukturellen Beeinflussung ätherischer Öle	Prof. Christian Stollberg	BMEL, FNR	02/2020 - 02/2023
■	Tragverhalten Lockstud	Tragverhalten von zugbeanspruchten Lockstud-Systemen zur Herstellung wartungsfreier Verbindungen	Prof. Ralf Glienke	BMWi, AiF	05/2021 - 01/2024
■	TRAIN-ECO	TRAINing for Professionals and Entrepreneurs on ECO-Innovation in Electronics Product Development	Prof. Gunnar Pause	EU-Erasmus+	11/2020 - 08/2023
■	UnWaste	Förderung der Kreislaufwirtschaft durch Entwicklung und Durchführung des Masterstudiengangs „Abfallwirtschaft“	Prof. Gunnar Pause	EU-Erasmus+	01/2021 - 01/2024

Research projects (ongoing)

	Short title	Title	Management	Funding Project supporter	Project period
■	ACZ25	Entwicklung der innovativen mechanischen Lösung unter Berücksichtigung von Werkstoffoptionen	Prof. Tassilo-Maria Schimmelpfennig	EU, TBI	11/2023 - 10/2026
■	AnBMV	Aufbau, Koordination und Netzwerk „Allianz für nachhaltiges Bauen MV“	Prof. Martin Wollensak	LaGuS, HSW	06/2024 - 05/2025
■	BEWOBA	Bezahlbares Wohnen für unsere Region	Prof. Martin Wollensak, Prof. Marcus Hackel, Prof. Joachim Andreas Joedicke	EU - EFRE, LFI M-V	07/2023 - 05/2025
■	CAMPFIRE	Konzeptionierung von landseitigen infrastrukturellen Voraussetzungen für eine NH ₃ -Versorgungsstruktur	Prof. Sönke Reise	BMBF, FZ Jülich	04/2021 - 04/2025
■	DARK&STRONG	Hohe Melanisierung von Dark Septate Endophytes: ein vorteilhaftes Merkmal für Pflanzenbesiedlung und Stresstoleranz	Prof. Falk Hillmann	DFG	02/2024 - 12/2027
■	DIGIBAU MV	Transfer von digitalen Anwendungen in die Bauwirtschaft im Verbundprojekt Mittelstand-Digital Zentrum Rostock	Prof. Martin Wollensak	BMWk, DLR	03/2023 - 02/2026
■	DigiTechPort2030	Dekarbonisierung der Ökosysteme kleiner Häfen für ein effizientes Umwelt- und Energiemanagement in der südlichen Ostsee	Prof. Gunnar Pause	EU	09/2023 - 06/2026
■	DIVAGRI	Revenue DIversification pathways in Africa through bio-based and circular AGRicultural innovations	Prof. Michael Schleicher	EU - Horizon 2020	06/2021 - 05/2025
■	DKMV	Datenkompass M-V: Kompetenznetzwerk Forschungsdaten Mecklenburg-Vorpommern	Prof. Frank Krüger	WKM M-V	07/2023 - 12/2024
■	FutureBalticBauhaus	FutureBalticBauhaus	Prof. Martin Wollensak	EU-EFRE	05/2024 - 04/2027
■	GenderVarianten	Revisionen von Genderkonstruktionen in Textüberlieferungen	Prof. Frank Krüger	DFG	01/2023 - 12/2025

Research projects (ongoing)

	Short title	Title	Management	Funding Project supporter	Project period
	Hanfbauplatte	Entwicklung eines statisch belastbaren, recycelbaren Prototyps einer mineralisch gebundenen Bauplatte aus Hanf	Prof. Winfried Malorny, Dr. Gesa Haroske	BMBF, FZ Jülich	04/2024 - 12/2025
	InoWAS	Entwicklung einer neuartigen Düse und gasfreien Bearbeitungstechnologie zum Abrasivwasserstrahlschneiden	Prof. Tassilo-Maria Schimmelpfennig	BMWk, AiF	06/2023 - 05/2025
	Kerfall große Schrauben	Weiterentwicklung des Kerfallkatalogs für Schrauben großer Durchmesser im Stahl- und Anlagenbau	Prof. Ralf Glienke	BMWk, AiF	01/2023 - 12/2025
	Kerfall synthetisch	Weiterentwicklung der Kerfallklassen nach EC3 für nichtgeschweißte Konstruktionsdetails	Prof. Ralf Glienke	BMWk, AiF	12/2022 - 05/2025
	LEAS	Landseitige Entscheidungsempfehlung für Verkehrslagen mit hochautomatisierten bzw. autonomen Schiffen	Prof. Michael Baldauf	BMBF, VDI	01/2022 - 12/2024
	Leistungsfähige Blindbefestiger	Charakterisierung leistungsfähiger Blindbefestiger für Instandsetzungen und ressourcenschonende Produktneuentwicklungen	Prof. Ralf Glienke	EFB, DLR	03/2024 - 08/2026
	MicrolImplant	Entwicklung biokompatibler Titanimplantate, PEEK-Gingivaformer und PEEK-Abutments	Prof. Tassilo-Maria Schimmelpfennig	BMWk, AiF	07/2023 - 06/2025
	OH22KuesSe	Nutzung von Offshore-H2 in der küstennahen Seefahrt	Prof. Axel Rafoth	BMBF, PTJ	07/2021 - 03/2025
	PIAMBIZID	Pilzfressende Amöben als Bio-Fungizid	Prof. Falk Hillmann	BMBF, FZ Jülich	09/2024 - 12/2025
	RiverCell3	Brennstoffzellen-Hybridanlage für ein Flusskreuzfahrtschiff - Weiterentwicklung für die Schiffsintegration	Prof. Axel Rafoth	BMDV, PTJ	01/2024 - 12/2026
	ScannedTables	Werkzeugunterstützung für die automatische Extraktion von Tabellendaten aus historischen Zeitschriften	Prof. Frank Krüger	DFG	04/2024 - 12/2024
	SFB 1270 ELAINE – INF	SFB 1270/2 ELAINE - Elektrisch Aktive Implantate – Teilprojekt Informationsinfrastruktur	Prof. Frank Krüger	DFG	07/2021 - 12/2025
	SimPleShip	Simulationsplattform zur digitalen Gesamtsystemanalyse und energetischen Betriebsoptimierung komplexer Passagierschiffe	Dr. Michael Gluch	BMWk, PTJ	01/2023 - 04/2025
	STRIVE	Sustainable Tourism through Resilient and Innovative Festival Ventures	Prof. Ulrike Rahe	EU- EFRE	07/2024 - 06/2027
	StruMan	Manövrieren und Regelung von Schiffen in der Nähe von Strukturen	Dr. Michael Gluch	BMWk, PTJ	09/2022 - 08/2025
	T.A.B.	Innovation Hubs for Tech, Art and Business	Prof. Gunnar Prause	EU	09/2023 - 09/2026
	TETRAS	Technologietransfer für florierende Kreislauf-Aquakulturen im Ostseeraum	Prof. Gunnar Prause	EU - EFRE, KSTP	01/2023 - 12/2026
	WieMoDämm	Dämmstoffherstellung aus Dominanzbeständen wiedervernässter Moore	Prof. Winfried Malorny, Dr. Gesa Haroske	BMBF, FZ Jülich	04/2024 - 12/2025



Eine Übersicht aller Forschungsprojekte befindet sich in der Forschungsdatenbank der Hochschule Wismar auf www.hs-wismar.de/forschungs-db



Promotions

	Family name	First name	Support by	Cooperation with	Defense
■	Bauers	Sebastian B.	Prof. Kai Neumann	Universität Leipzig	2020
■	Dörre	Maik	Prof. Ralf Glienke	Universität Rostock	2020
■	Ebert	Andreas	Prof. Ralf Glienke	Universität Rostock	2020
■	Folkerts	Hendrik Martin	Prof. Thorsten Pawletta	TU Clausthal	2024
■	Freymann	Birger	Prof. Thorsten Pawletta	TU Clausthal	2022
■	Götten	Marek	Prof. Andreas Ahrens	Universidad Politécnica de Madrid	2022
■	Hilgenfeld	Carsten	Prof. Manfred Ahn	Universität Rostock	2020
■	Jäntschi	Sandra	Prof. Claudia von Laar	Universität Rostock	2024
■	Kalkowsky	Florian	Prof. Ralf Glienke	Universität Rostock	2024
■	Kunert	Johanna	Prof. Roland Larek	Liverpool John Moores University	2020
■	Ledderose	Lukas Bastian	Prof. Asko Fromm	TU Braunschweig	2023
■	Massolle	Christopher	Prof. Bärbel Koppe	Gottfried Wilhelm Leibniz Universität Hannover	2023
■	Mesecke	Karsten	Prof. Winfried Malorny	Universität Greifswald	2023
■	Meyer	Christopher	Prof. Gunnar Prause	Tallin University of Technology	2023
■	Ngyuen	Van Than	Prof. Wolfgang Pfeiffer	Universität Rostock	2023
■	Oberfrancová	Lucia	Prof. Martin Wollensak	Slovak University of Bratislava	2023
■	Pérez Vega	Catherine	Prof. Michael F. Rohde	Freie Universität Berlin	2024
■	Philipp	Robert	Prof. Gunnar Prause	Tallin University of Technology	2021
■	Sandmann	André	Prof. Andreas Ahrens	Christian-Albrechts-Universität zu Kiel	2022
■	Scheel	Matthias	Prof. Olaf Simanski	Universität Rostock	2021
■	Schietzel-Kalkbrenner	Jennifer	Prof. Olaf Bassus	Helmut-Schmidt-Universität / Universität der Bundeswehr Hamburg	2021
■	Schwarz	Mathias	Prof. Ralf Glienke	Universität Rostock	2022
■	Singh	Rahul	Prof. Volker Birke	Indian Institute of Technology, Delhi	2022
■	Singh	Jasmeet	Prof. Andreas Ahrens	Universidad Politécnica de Madrid	2024
■	Wagner	Jan Cetric	Prof. Roland Larek	Julius-Maximilians-Universität Würzburg	2023
■	Wichmann	Johannes	Prof. Mathias Wißotzki	Universität Rostock	2022
■	Wirth	Franz	Prof. Asko Fromm	TU Braunschweig	2020

Appointments

	Name	Field of appointment	Year
■	Prof. Dr.-Ing. Julian Hümme	Baustoffe und Betontechnologie	2024
■	Prof. Dipl.-Ing. Philipp Quack	Entwerfen im Bestand, urbane Transformation	2024
■	Prof. Dr.-Ing. Thomas Dudek	Baubetrieb und Bauverfahrenstechnik	2024
■	Prof. Dr.-Ing. Matthias Kathmann	Klimagerechte Baukonstruktion/ Bauen im Bestand	2024
■	Prof. Dr.-Ing. Matthias Schuster	Kommunikationssysteme und Hochfrequenztechnik	2024
■	Prof. Dr. rer. pol. Ralph Kattenbach	Allgemeine Wirtschaftspsychologie/ Sozial-, Arbeits- und Organisationspsychologie	2024
■	Prof. Dr.-Ing. habil. Volker Grienitz	Informationstechnik - Digitalisierung und Gesellschaft	2024
■	Prof. Ilka Raupach	Künstlerisches Gestalten in der Innenarchitektur	2024
■	Prof. Dr.-Ing. Christian Steinbrecher	Regelungstechnik/Sensorik	2024
■	Prof. Dr.-Ing. Michael Baldauf	Navigation	2024
■	Prof. Dr. Olaf Hagendorf	Systemsoftware und IT-Sicherheit	2023
■	Prof. Dr. rer. nat. Tobias Rösch	Elektroenergieversorgung und Elektrizitätswirtschaft	2023
■	Prof. Dr. rer. nat. Tobias Brendel	Wirtschaftsinformatik/Künstliche Intelligenz	2023
■	Prof. Dr. rer. pol. Frank Maaser	Technische Betriebswirtschaftslehre/ Produktion und Logistik	2023
■	Prof. Dr. rer. pol. habil. Manuela Möller	Allgemeine Betriebswirtschaftslehre, Financial Accounting	2023
■	Prof. Dipl.-Ing. Jan Blieske	Beleuchtungsanwendung in der Architektur, Gebäudeklima und Entwerfen	2023
■	Prof. Dipl.-Des. Ulrike Rahe	Entwerfen von Produkten und Entwicklung von Designstrategien	2023
■	Prof. Dr. rer. nat. Falk Hillmann	Biochemie/Biotechnologie	2022
■	Prof. Dr.-Ing. Frank Krüger	Data Science and Machine Learning	2022
■	Prof. Dr.-Ing. Katharina Lange	Verkehrswesen	2022
■	Prof. Dr.-Ing. Stefan Schubotz	Elektrische Antriebe und Leistungselektronik	2022
■	Prof. Dr.-Ing. Christiane Schwenk	Gebäudeausrüstungen	2022
■	Prof. Dr.-Ing. Jöran Pieper	Wirtschaftsinformatik/Anwendungsentwicklung	2022
■	Prof. Dr. rer. pol. Ali Axel Arnaout	ABWL International Management	2022
■	Prof. Dipl.-Des. Olaf Fippinger	Fotografie	2022
■	Prof. Dipl.-Des. Tom Hanke	Integrated Design-Objekt und Interaktion	2022

Appointments

	Name	Field of appointment	Year
■	Prof. Dipl.-Des. Falk Schuster	Animation	2021
■	Prof. Dipl.-Des. Sophia Martinek	Künstlerische Grundlagen insbesondere Zeichnen und Illustration	2022
■	Prof. Dipl.-Ing. Simon Takasaki-Lauw	Entwerfen und Gebäudelehre	2022
■	Prof. Dr. rer. nat. habil. Ernst-Michael Böhm	Physik/Angewandte Physik	2021
■	Prof. Dipl.-Wirt.-Ing. Kap. Mario Gehrke	Schiffsführung	2021
■	Prof. Dr.-Ing. Jens Krahl	Elektromagnetische Verträglichkeit und Zuverlässigkeit	2021
■	Prof. Dr.-Ing. Axel Rafoth	Schiffselekrotechnik	2021
■	Prof. Dipl.-Des. Björn Kernspeckt	Werbung (insbesondere Methoden und Techniken der Werbung)	2021
■	Prof. Dr. phil. habil. Christine Linke	Kommunikationswissenschaften insbesondere sprach-, kommunikationstheoretische und -psychologische Grundlagen der Kunst, der Medien und des Designs	2021
■	Prof. Dipl. Filmregie Britta Wauer	Zeitbasierte Medien (Filmsches Erzählen und seine medialen Kontexte), auf eigenen Wunsch am 01.11.2023 ausgeschieden	2021
■	Prof. Dr.-Ing. Bärbel Koppe	Wasserbau und Hydromechanik	2020
■	Prof. Dr. rer. nat. Thilo Moshagen	Mathematik	2020
■	Prof. Dr. iur. Robert Peetz	Maritimes Recht mit Seewirtschaft	2020
■	Prof. Dr.-Ing. Jean Rom Rabe	Schiffsmaschinenbetrieb	2020
■	Prof. Dr. rer. nat. Marianne Schmolke	Wirtschaftsinformatik/Geschäftsprozesse und Softwarearchitekturen	2020
■	Prof. Dr. jur. habil. Madeleine Tolani	Bürgerliches Recht	2020
■	Prof. Dr. phil. Maxi Berger	Kulturwissenschaften, insbes. ästhetische, ethische und gesellschaftswissenschaftliche Grundlagen der Kunst, Medien und des Designs	2020

Large scientific equipment

	Year	Field	Designation	Applicant	Actual order	Category
■	2024	FIW/MVU	Kamerasystem für die Hochgeschwindigkeitsbildanalyse	Prof. Schimmelpfennig	97.011,18 €	kleines wiss. GG
■	2024	HSZW	3 Achs-Fräsmaschine	Herr Lübcke	117.558,96 €	LAGG
■	2023	FIW/SAL	Sichtsystem für die Brücken 1 und 2 im Schiffsführungssimulator des Maritimen Simulationszentrum	Prof. Gehrke	98.472,50 €	kleines wiss. GG
■	2023	HSZW	Manuelle Drehmaschine	Herr Lübcke	95.952,62 €	kleines wiss. GG
■	2023	FIW/MVU	Materialographielabor	Prof. Schwerdt	93.402,17 €	kleines wiss. GG
■	2022	FIW/SAL	Erneuerung des Schiffssimulators - Ergänzungsmodule	Prof. Böcker, Prof. Rabe	3.874.130,64 €	LAGG
■	2022	FIW/SAL	Erneuerung des Schiffssimulators - Ergänzungsmodul	Prof. Böcker, Prof. Rabe	680.680,00 €	LAGG
■	2022	FIW/MVU	Ultrahochdruckflüssig-chromatographie (UHPLC)	Prof. Birke	82.683,58 €	kleines wiss. GG
■	2022	FIW/BIW	System zur Messung von Richtungsseegang - AXYS Triaxys Mini Buoys	Prof. Koppe	97.773,43 €	kleines wiss. GG
■	2022	FIW/MVU	GC-MS/FID inklusive Isotopenanalytik	Prof. Stollberg	99.010,38 €	LAGG
■	2022	FIW/MVU	Universalprüfmaschine	Prof. Schwerdt	552165,95 €	LAGG
■	2022	FIW/Eul	Kamerabasiertes nicht-invasives Monitoring für Ambient Assisted Living Anwendungen	Prof. Kraitzl, Prof. Simanski, Prof. Hornberger	85.716,62 €	kleines wiss. GG
■	2022	FIW/MVU	Kapilar-GC mit zwei Flammenionisationsdetektoren	Prof. Birke	33.915,00 €	EFRE
■	2021	FIW/MVU	ZwickRoell Vibrophore-Prüfmaschine 100kN (Hochfrequenzpulsator)	Prof. Glienke, Prof. Schwerdt	271.985,21 €	LAGG
■	2021	HSZW	Laser-Prototyping-Systems ProtoLaser U4	Herr Lübcke	205.881,90 €	LAGG
■	2021	HSZW	Hochtemperatur 3D-Drucker für Hochleistungskunststoffe, Metall und Keramik	Zentral	93.579,21 €	kleines wiss. GG
■	2020	FIW/MVU	Flüssigchromatographie-Quadrupol-Massenspektrometer-Kopplung	Prof. Birke	350.343,58 €	EFRE
■	2020	KBauMV	Baustoff- und Bauphysik-labor des KBauMV	Frau Haroske	46.566,47 €	EFRE

Large scientific equipment

	Year	Field	Designation	Applicant	Actual order	Category
■	2020	FIW/MVU	Optischer Funken-Emissions-spektral-Analysator (FESA)	Prof. Schwerdt	78.740,45 €	kleines wiss. GG
■	2020	FIW/MVU	Partikelanalysator CAMSIZER® X2	Prof. Wilichowski	95.899,52 €	kleines wiss. GG
■	2020	FIW/MVU	3D-Form- und Rauheitsmessgerät	Prof. Schimmelpfennig	237.881,00 €	LAGG
■	2019/20	FIW/Eul	Patientensimulator mit Beatmungsgerät	Prof. Simanski	124.717,05 €	EFRE

Patents

	Name	Year	Titling	Publication number	Scope
■	Fromm, A.	2024	Flächenkörper, insbesondere Geschoßdecke eines Gebäudes, aufweisend mehrere Flächenelemente aus Holz		
■	Hansmann, H.	2020	Werkstoff und Verfahren zu seiner Herstellung zur Erzielung hoher hydraulischer Leitfähigkeit von gebrannten Tonkörpern	DE 10 2020 004 441 A1	Deutschland
■	Latz, K. Bittermann, T. Klinner, H. Völkel, S.	2022	Flüssigkeitstilger zum Tilgen und Dämpfen von Schwingungen an Bauwerken	WO 2023/025780	Europäische Union
■	Müller-Demuth, R.	2021	Vorrichtung zur Reduktion von Rammschall	DE 10 2019 005 311 A1	Deutschland
■	Schwerdt, D. Lorenz, M.	2021	Vorrichtung und Verfahren Dezellularisierung und Allografts mittels mechanischer Reinigungsverfahren	DE 10 2021 112 930 A1	

University bibliography

This university bibliography of the University of Wismar documents the scientific publication activity of our university in the reporting period 2020 to 2024. It is based on the reports of our university members for this period. We would like to point out that the completeness of the bibliography depends directly on these reports. The digital edition of this bibliography offers a search function that enables targeted searches for

keywords, topics or author names. In addition to peer-reviewed articles, the bibliography also contains conference papers and non-peer-reviewed publications. The latter are important for the evaluation of research priorities by the German Rectors' Conference (HRK) and show the breadth and diversity of academic work at our university. The publication of scientific results is therefore not only a significant contribution to the further development of science and society, but also a central pillar of the visibility and reputation of the Wismar University. With this bibliography, we would like to honour the research achievements of our university and make them accessible to the wider public. We would like to thank all the authors whose publications have contributed to the academic discourse and the profile of Wismar University of Applied Sciences.

- (2023). 2023 International Interdisciplinary PhD Workshop (IIPhDW).
- Aboltins, A., Capligins, F., Hasjuks, N. & Ahrens, A. (2023). Implementation of Chaotic Frequency Modulation based Spread Spectrum Communication System in Software-defined Radio. In IEEE Wireless Communications and Networking Conference.
- Aboltins, A., Litvinenko, A., Terauds, M. & Ahrens, A. (2022). Use of Chaotic Oscillations for Precoding and Synchronisation in OFDM. In Advances in Electrical and Electronic Engineering.
- Ahmadov, T., Gerstlberger, W. & Praise, G. (2022). Fiscal Incentives for Circular Economy: Insights from the Baltic States. In V. Prokop, J. Stejskal, J. Horbach & W. Gerstlberger (Hrsg.), Springer eBook Collection. Business Models for the Circular Economy: A European Perspective (S. 219–239). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-031-08313-6_9
- Ahrens, A., Benavente-Peces, C [César], Zascerinska, J., Melnikova, J [Julija] & Purvinis, O [Ojaras] (2023). Evaluation of Traffic Burstiness Using Gap-Based Microscopic Modelling. In IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- Ahrens, A., Bhati, P., Leshchenko, A., Zascerinska, J., Gukovica, O., Zascerinskis, M. & Aleksejeva, A. (2021). Comparative Studies on Inclusive Digital Teaching in Higher Education in Light of COVID-19: 2. In Analyzing IT Opportunities for Inclusive Digital Learning (S. 18–45). IGI Global.
- Ahrens, A., Bhati, P., Leshchenko, A., Zascerinska, J., Gukovica, O., Zascerinskis, M. & Aleksejeva, A. (2021). Comparative Studies on Inclusive Digital Teaching in Higher Education in Light of COVID-19. In Analyzing IT Opportunities for Inclusive Digital Learning, Chapter 2 (S. 18–45). IGI Global.
- Ahrens, A., Bhati, P., Zascerinska, J., Zascerinskis, M., Aleksejeva, A. & Abjalkiene, I. (2021). Engineering Master Students' Views on Digital Entrepreneurship in a Host European Country. In 13th International Scientific and Practical Conference Environment. Technology. Resources.
- Ahrens, A., Foerster, M., Zascerinska, J. & Wasser, I. (2020). European Accreditation Agency's View on Kazakhstan's Engineering and Information Technology Higher Education. In Society. Integration. Education.
- Ahrens, A., Hartleb, D. & Zascerinska, J. (2022). Modelling the Service Process at the Cash Register using Generating Functions. In 5th International Conference on Signal Processing and Information Communications (ICSPIC).
- Ahrens, A., Hartleb, D. & Zascerinska, J. (2022). Modelling the Service Process at the Cash Register Using Generating Functions. In Signals and Communication Technology (S. 89–101). Springer.
- Ahrens, A., Hartleb, D. & Zascerinska, J. (2022). Modelling the Service Process at the Cash Register Using Generating Functions. In Signals and Communication Technology (S. 89–101). Springer.
- Ahrens, A., Jacob, A. & Zascerinska, J. (2022). A Simplified Model for Bursty Traffic Management using Gap Functions. In IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- Ahrens, A., Jacob, A. & Zascerinska, J. (2022). A Simplified Model for Bursty Traffic Management Using Gap Functions. In IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- Ahrens, A., Lange, C., Zascerinska, J. & Aleksejeva, L. (2020). A Comparative Analysis of Processes of Conceptual Change for the Enhancement of Implementation of Green Energy Education and Training. In 4th International Conference on Green Energy and Applications (ICGEA 2020).
- Ahrens, A., Lange, C., Purvinis, O [O.] & Zascerinska, J. (2020). A Traffic Estimation Method for Dynamic Capacity Adaptation Targeting Energy Savings in Load Adaptive Communication Networks. In 13th International Scientific Conference Intelligent Technologies in Logistics and Mechatronics Systems (ITELMS'2020) held as part of 3rd Forum on Innovative Technologies and Management for Sustainability (ITMS'2020).
- Ahrens, A., Lange, C. & Zascerinska, J. (2020). Energy Savings by Using Traffic Estimation for Dynamic Capacity Adaptation in Communication Network Operations. Journal of Communications, 15(11), 790–795.
- Ahrens, A., Purvinis, O [O.] & Zascerinska, J. (2022). Decomposition of the Customer-Server Interaction in Grocery Shops. International Journal of Economics and Management Engineering, 16(12), 836–840.
- Ahrens, A., Purvinis, O [O.] & Zascerinska, J. (2022). Decomposition of the Customer-Server Interaction in Grocery Shops. International Journal of Economics and Management Engineering, 16(12), 836–840.
- Ahrens, A. & Zascerinska, J. (2020). Comparison of Teacher's and Students' Ranking of English for Academic Purposes Sub-Topics. Education. Innovation. Diversity, 1(1), 16–25.
- Ahrens, A. & Zascerinska, J. (2020). Immigrants' Use of Language for Professional Purposes in a Host Country: Implications for Adult Education. In Society. Integration. Education.
- Ahrens, A. & Zascerinska, J. (2021). Social Sciences' Transformation in Light of COVID-19. Education Reform: Education Content Research and Implementation Problems, 1, 7–18.
- Ahrens, A. & Zascerinska, J. (2021). Social Sciences' Transformation in Light of COVID-19. Education Reform: Education Content Research and Implementation Problems, 1, 7–18.
- Ahrens, A. & Zascerinska, J. (2021). Social Sciences' Transformation in Light of COVID-19. In Education Reform: Education Content Research and Implementation Problems (Bd. 1, S. 7–18). Rezekne Academy of Technologies.
- Ahrens, A. & Zascerinska, J. (2022). The Emotions in light of the Work by Vygotsky and Leontiev: Notions, Features and Functions. Regional Formation and Development Studies(2(37), 7–18.
- Ahrens, A. & Zascerinska, J. (2022). The Emotions in Light of the Work by Vygotsky and Leontiev: Notions, Features and Functions. Regional Formation and Development Studies(2 (37), 7–18.
- Ahrens, A. & Zascerinska, J. (2022). The Emotions in Light of Vygotsky's and Leontiev's Work: Notions, Features and Functions. In 18th Annual International Scientific Conference Social Innovations for Sustainable Regional Development.
- Ahrens, A. & Zascerinska, J. (2022). The Emotions in Light of Vygotsky's and Leontiev's Work: Notions, Features and Functions. In 18th Annual International Scientific Conference Social Innovations for Sustainable Regional Development.
- Ahrens, A. & Zascerinska, J. (2023). Teachers' Emotional Experience in Online Classes in Adult Education in Selected European Countries. International Journal of Educational and Pedagogical Sciences, 17(3), 154–159.
- Ahrens, A., Zascerinska, J., Amanzholova, S., Zakirova, G. & Aleksejeva, L. (2020). Analysis of ICT Companies' Needs for the Enhancement of ICT Higher Education at Master Level: The Case of Kazakhstan. Journal of Regional Economic and Social Development, 12(1), 8–17.
- Ahrens, A., Zascerinska, J., Melnikova, J [J.J.], Jurgaityte, L. & Gukovica, O. (2020). Culturally Responsive Teaching of Immigrants in Adult Education: A Case in Sweden. Journal of Regional Economic and Social Development, 12(1), 18–27.
- Ahrens, A., Zascerinska, J., Lange, C. & Aleksejeva, L. (2021). A Comparative Analysis of Processes of Conceptual Change for the Enhancement of Implementation of Green Energy Education and Training. International Journal of Information and Education Technology (IJET), 11(1), 47–51.
- Ahrens, A., Zascerinska, J., Lange, C. & Aleksejeva, L. (2021). A Comparative Analysis of Processes of Conceptual Change for the Enhancement of Implementation of Green Energy Education and Training. International Journal of Information and Education Technology (IJET), 11(1), 47–51.
- Ahrens, A., Zascerinska, J., Amanzholova, S., Aleksejeva, L., Zascerinskis, M., Aleksejeva, A., Gukovica, O. & Abjalkiene, I. (2021). A Multi-sided Needs Analysis for Designing a Master Programme in the Field of Information Technologies at a University in Kazakhstan. In 10th International Scientific Conference "Perspectives of Economic of Kaliningrad Region and EU Development".
- Ahrens, A., Zascerinska, J., Aleksejeva, L., Gukovica, O., Zascerinskis, M. & Aleksejeva, A. (2021). Challenges and Opportunities in Adult Education in Greenland. In Society. Integration. Education.
- Ahrens, A., Zascerinska, J., Bhati, P., Zascerinskis, M. & Aleksejeva, A. (2021). Comparative Studies of COVID-19 Impact on Students' Views on Digital Higher Education. In Society. Integration. Education.
- Ahrens, A., Zascerinska, J., Bhati, P., Zascerinskis, M. & Aleksejeva, A. (2021). Comparative Studies of COVID-19 Impact on Students' Views on Digital Higher Education. In Society. Integration. Education.
- Ahrens, A., Zascerinska, J. & Aleksejeva, A. (2021). Fostering External and Internal Sustainability within the English for Academic Purposes Course in the COVID-19 Pandemic. Education. Innovation. Diversity, 2, 6–15.
- Ahrens, A., Zascerinska, J. & Macovei, I. (2022). A Comparative Study of Youth Gender Based Discrimination in Employment in Selected Countries. Current Issues of Business and Law(2), 6–14.
- Ahrens, A., Zascerinska, J. & Macovei, I. (2022). A Comparative Study of Youth Gender Based Discrimination in Employment in Selected Countries. Current Issues of Business and Law(2), 6–14.
- Ahrens, A., Zascerinska, J., Macovei, I., Zascerinskis, M. & Aleksejeva, A. (2022). Building an Assessment Algorithm for Measuring Young Employees' Gender Based Discrimination, Sexual Harassment and Sexual Assault: Literature Overview. In 4th Innovative Technologies and Management for Sustainability Forum.
- Ahrens, A., Zascerinska, J., Macovei, I., Zascerinskis, M. & Aleksejeva, A. (2022). Building an Assessment Algorithm for Measuring Young Employees' Gender Based Discrimination, Sexual Harassment and Sexual Assault: Literature Overview. In 4th Innovative Technologies and Management for Sustainability Forum.
- Ahrens, A., Zascerinska, J. & Markussen, I. (2022). Development of Adult Learners' 21st Century Skills in Greenland: Field Work Analysis. Education Reform: Education Content Research and Implementation Problems, 2, 4–16.
- Ahrens, A., Zascerinska, J. & Markussen, I. (2022). Development of Adult Learners' 21st Century Skills in Greenland: Field Work Analysis. Education Reform: Education Content Research and Implementation Problems, 2, 4–16.
- Ahrens, A., Zascerinska, J. & Macovei, I. (2022). EU Youth Beliefs in Gender Based Discrimination, Sexual Harassment and Sexual Assault. Education. Innovation. Diversity, 2(5), 47–57.
- Ahrens, A., Zascerinska, J. & Macovei, I. (2022). EU Youth Beliefs in Gender Based Discrimination, Sexual Harassment and Sexual Assault. Education. Innovation. Diversity, 2(5), 47–57.
- Ahrens, A., Zascerinska, J., Bikova, A., Aleksejeva, L., Zascerinskis, M. & Gukovica, O. (2023). A New Development Model of Sustainable Communication for Higher Education Institutions. Education. Innovation. Diversity, 2(6), 30–48.
- Ahrens, A., Zascerinska, J., Zascerinskis, M. & Bikova, A. (2023). Exploring EU Students' Beliefs and Exposure to Sexual Harassment and Sexual Assault. In Proceedings of the International Scientific Conference: Society, Integration, Education.
- Ahrens, A., Zascerinska, J., Filimonova, D. & Bikova, A. (2023). How Emotions Are Developed: Insights From Vygotsky's and Leontiev's Works. In Proceedings of the International Scientific Conference: Society, Integration, Education.
- Al-Suadi, S. & Krüger, F. (2021). Redaktionskritik reconsidered. In Biblical Texts in Digitalization. <https://doi.org/10.15496/publikation-48536>
- Auer, E. & Ahrens, A. (2021). Guaranteed Minimization of the Bit Error Ratio for Correlated MIMO Systems. In Proceedings of REC 2021 Conference. http://wwwnew.unime.it/REC2021/proceedings/REC2021_Proceedings.pdf
- Auer, E. & Ahrens, A. (2021). Guaranteed Minimization of the Bit Error Ratio for MIMO Systems: A Mathematical Viewpoint. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 7(2), Artikel 020910. <https://doi.org/10.1115/1.4050161>
- Auer, E., Kersten, J [J.J.] & Rauh, A. (2020). Special Issue of the 11th Summer Workshop on Interval Methods. Acta Cybernetica.
- Auer, E. & Luther, W. (2021). Uncertainty Handling in Genetic Risk Assessment and Counseling. JUCS - Journal of Universal Computer Science, 27(12), 1347–1370. <https://doi.org/10.3897/jucs.77103>
- Auer, E. & Luther, W. (2022). Dempster-Shafer Theory Based Uncertainty Models for Assessing Hereditary, BRCA1/2-Related Cancer Risk. In 8th International Symposium on Reliability Engineering and Risk Management. <https://www.semanticscholar.org/paper/Dempster-Shafer-Theory-Based-Uncertainty-Models-for-Auer-Luther/638e09672c32e2a235be4c115b59bf4d4f07be>
- Auer, E., Rauh, A. & Kersten, J [Julia] (2020). Experiments-based parameter identification on the GPU for cooperative systems. Journal of Computational and Applied Mathematics, 371, 112657. <https://doi.org/10.1016/j.cam.2019.112657>
- Baar, C. & Bombeck, H. (2024). Buntkäfer und ihr Potenzial in der biologischen Bekämpfung Holz zerstörender Insekten. In Erhalten durch Sanieren – DenkMal drüber nach! Tagungsband der 33. Hanseatischen Sanierungstage 2023 (S. 185–199). Fraunhofer IRB Verlag.
- Baar, C., Laar, C. von [Claudia], Willert, M. & Bombeck, H. (2021). Occurrence of synanthropic beetles (Coleoptera Ptinidae) and checkered beetles (Coleoptera Cleridae) in relation to climatic factors in historical buildings from North-Eastern Germany. In IRG/WP 21-10980. International Research Group on Wood Protection, IRG 52, Webinar.
- Baar, C., Laar, C. von [Claudia] & Bombeck, H. (2022). Clerids as a potential approach for biological control – faunistic investigation in buildings infested with wood destroying insects. In R. Bueno-Mari, T. Montalvo & W. H. Robinson (Vorsitz), Proceedings of the 10th International Conference of Urban Pests. Bartolini, D., Benavente-Peces, C [C.] & Ahrens, A. (2021). Cyber Protection – Industrialized Assessments for Analyzing Cyber Risk. In Business Models: Innovation, Digital Transformation, and Analytics (S. 137–161). CRC.

- Baverel, O., Douthé, C., Mesnil, R., Mueller, C., Pottmann, H. & Tachi, T. (Hrsg.). (2021). *Advances in Architectural Geometry 2020*.
- Becker, M [Mirco], Fromm, A., Mecke, P. & Keller, F. (2021). Space Shingles: Casting bespoke connectors for structural shingles. In O. Baverel, C. Douthé, R. Mesnil, C. Mueller, H. Pottmann & T. Tachi (Hrsg.), *Advances in Architectural Geometry 2020* (S. 392–405).
- Beckh, M., Del Cueto Ruiz-Funes, J. I., Ludwig, M., Schätzke, A. & Schützeichel, R. (Hrsg.). (2021). *Candela Isler Müther: Positions on shell construction*. Birkhäuser. <https://www.degruyter.com/books/9783035620962>
- Beeh, K. M., Rothnie, K. J., Claussen, J., Hardtstock, F [F.], Knapp, R., Wilke, T [T.] & et al. (2024). Characteristics of Users and New Initiators of Single- and Multiple-Inhaler Triple Therapy for Chronic Obstructive Pulmonary Disease in Germany. *Int J Chron Obstruct Pulmon Dis*, 19, 945–956.
- Belluomo, C. & Wego, A [Ansgar] (2022). Vergleich unter Realbedingungen. *AUTO Strassenverkehr*(26/2022), 36–37.
- Belluomo, C. & Wego, A [Ansgar] (2022). Wer kann es besser? *AUTO Strassenverkehr*(4/2022), 60–61.
- Berger, M. (Hrsg.). (2018). *Grundlinien kritischen Denkens: Band 1. Erfahrung und Reflexion: Das Subjekt in Kunst und Kunsthfilosophie. zu Klampen!* Verlagsbuchhandlung & Carl Ernst Poeschel GmbH. <https://ebookcentral.proquest.com/lib/kxp/detail.action?docID=2179460>
- Berger, M. (2018). Kadenz im Konjunktiv: Intellektuelle Selbstbehauptung und ästhetische Theorie. In M. Berger (Hrsg.), *Grundlinien kritischen Denkens: Band 1. Erfahrung und Reflexion: Das Subjekt in Kunst und Kunsthfilosophie* (S. 15–37). zu Klampen!
- Berger, M. (2020). ¿Traer el arte a la vida o salvar la apariencia? In J. Maiso & M. Hervás (Hrsg.), *Constelaciones. Revista de Teoría Crítica*: 11–12. Il faut continuer: Teoría estética. 1970–2020 (S. 57–77).
- Berger, M. (2020). Replik zu Insa Härtel: Vibrieren, Sortieren, Entdifferenzieren. *ZfK - Zeitschrift für Kulturwissenschaften*(1), 174–177 (Weltzugangsversprechen in Jane Bennetts trash-Betrachtung).
- Berger, M. (2021). „Kant und Hegel in der Ästhetischen Theorie“. In A. Eusterschulte & S. Tränkle (Hrsg.), *Klassiker Auslegen: Band 74. Theodor W. Adorno: Ästhetische Theorie* (S. 257–272). De Gruyter.
- Berger, M. (2021). Vom glücklichen Gebrauch: Überlegungen zu einer kritischen Theorie des Designs. *Zeitschrift für kritische Theorie*(52–53), 256–270.
- Berger, M. (2022). Kunst ins Leben oder Rettung des Scheins? In M. Berger (Hrsg.), *Studien Zur Kritischen Theorie Series. Der Vorrang des Objekts: Negative Dialektik Heute* (1st ed.). J. B. Metzler'sche Verlagsbuchhandlung & Carl Ernst Poeschel GmbH.
- Berger, M. (2022). Vom glücklichen Gebrauch: Überlegungen zu einer kritischen Theorie des Designs. *Zeitschrift für kritische Theorie*, 2021(52–53), 256–270.
- Bhati, P., Zascerinska, J. & Ahrens, A. (2021). Analysis of Interviews on Entrepreneurship in a Host Country: Implications for Higher Education. In 10th International Scientific Conference “Perspectives of Economic of Kaliningrad Region and EU Development”.
- Bhati, P., Zascerinska, J. & Ahrens, A. (2021). Analysis of Interviews on Entrepreneurship in a Host Country: Implications for Higher Education. In 10th International Scientific Conference “Perspectives of Economic of Kaliningrad Region and EU Development”.
- Blieske, J. (2019). Built heritage & Light. In J. Ritter (Vorsitz), Convention proceedings: Convention Proceedings PLDC 8th Global Lighting Design Convention 2019 in Rotterdam.
- Blieske, J. (2020). Die Instandsetzung der Lichtsituation. In P. Kurz (Hrsg.), *Meisterhaus Kandinsky Klee: Die Geschichte einer Instandsetzung* (S. 148–157). Spector Books.
- Bokemeyer, B [B.], Picker, N [N.], Wilke, T [T.], Rosin, L. & Patel, H. (2022). Inadequate Response, Treatment Patterns, Health Care Utilization, and Associated Costs in Patients With Ulcerative Colitis: Retrospective Cohort Study Based on German Claims Data. *Inflamm Bowel Dis*. <https://www.ncbi.nlm.nih.gov/pmc/articles/3513491/>
- Brede, H. & Koppe, B. (2019). Genehmigungsfähigkeit der thermischen Nutzung von Oberflächengewässern. *WASSERWIRTSCHAFT*, 109(4), 56–61. <https://doi.org/10.1007/s35147-019-0027-5>
- Brinks, P. (2020, 5. November). Problems in Subsequently Insulated Heritage Buildings: ASHRAE 4th Int. Conf. on Efficient Building Design. Materials and HVAC Equipment Technologies.
- Brinks, P. (2020). Moisture Problems in Subsequently Insulated Heritage Buildings. In ASHRAE 4th Int. Conf. on Efficient Building Design: Materials and HVAC Equipment Technologies. Symposium im Rahmen der Tagung von American University of Beirut, Libanon.
- Bücker, A. (2021). Arbeitnehmerschutzrecht: § 172 Einführung, § 173 Systematik des Europäischen Arbeitsschutzrechts, § 180 Individueller Arbeitsschutz und arbeitsmedizinische Vorsorge. In H. Kiel, S. Lunk & H. Oetker (Hrsg.), Beck-online Bücher. Münchener Handbuch zum Arbeitsrecht (5. Auflage, 1659–1679, 1780–1706, 1944–1977). C.H. Beck.
- Bücker, A. (2021). Europäisches Arbeitsschutzrecht. In K. Riesenhuber (Hrsg.), *Juris Zusatzmodul Justiz Arbeitsrecht: Bd. 7. Europäisches Arbeitsrecht* [2., vollständig überarbeitete und erweiterte Auflage], S. 843–890. De Gruyter.
- Bücker, A. (2022). Soziale Grundrechte der EU: Inhalte und Rechtswirkungen am Beispiel arbeitsumweltbezogener Grundrechte. *Ad Legendum*(4), 288–295.
- Bücker, A. (2023 “). Kommentierung der Verordnung über Sicherheit und Gesundheitsschutz bei der Benutzung persönlicher Schutzausrüstungen bei der Arbeit. In W. Kothe, U. Faber & K. Feldhoff (Hrsg.), *Handkommentar Arbeitsschutzrecht* (3. Aufl., 609–637, 994–1007). Nomos.
- Bücker, A. (2023). Das soziale Grundrecht auf gesunde, sichere und würdige Arbeitsbedingungen, Art. 31 Charta der Grundrechte der Europäischen Union. In W. Kothe, U. Faber & D. Busch (Hrsg.), *Handkommentar Arbeitsschutzrecht* (3. Aufl., S. 37–97). Nomos.
- Bücker, A. (2023). Das soziale Grundrecht auf gesunde, sichere und würdige Arbeitsbedingungen: Art. 31 Charta der Grundrechte der Europäischen Union. In W. Kothe, U. Faber & D. Busch (Hrsg.), *NomosKommentar. Gesamtes Arbeitsschutzrecht: Arbeitsschutz, Arbeitszeit, Arbeitssicherheit, Arbeitswissenschaft*: Handkommentar (3. Auflage, S. 37–97). Nomos.
- Bücker, A. (2023). Kommentierung der Verordnung über Sicherheit und Gesundheitsschutz bei der Benutzung persönlicher Schutzausrüstungen bei der Arbeit. In W. Kothe, U. Faber & D. Busch (Hrsg.), *NomosKommentar. Gesamtes Arbeitsschutzrecht: Arbeitsschutz, Arbeitszeit, Arbeitssicherheit, Arbeitswissenschaft*: Handkommentar (3. Auflage, 609–637, 994–1007). Nomos.
- Bücker, A. (2023). Kommentierung der Verordnung zur arbeitsmedizinischen Vorsorge. In W. Kothe, U. Faber & D. Busch (Hrsg.), *NomosKommentar. Gesamtes Arbeitsschutzrecht: Arbeitsschutz, Arbeitszeit, Arbeitssicherheit, Arbeitswissenschaft*: Handkommentar (3. Auflage, S. 620–637). Nomos.
- Bücker, A. (2023). Kommentierung des § 11 ArbSchG. In W. Kothe, U. Faber & D. Busch (Hrsg.), *NomosKommentar. Gesamtes Arbeitsschutzrecht: Arbeitsschutz, Arbeitszeit, Arbeitssicherheit, Arbeitswissenschaft*: Handkommentar (3. Auflage, S. 374–388). Nomos.
- Bücker, A. (2024). § 172 Einführung, § 173 Systematik des Europäischen Arbeitsschutzrechts, § 174 Durchführung des Arbeitsschutz- und Unfallverhütungsrechts, § 180 Individueller Arbeitsschutz und arbeitsmedizinische Vorsorge. In H. Kiel, S. Lunk & H. Oetker (Hrsg.), Münchener Handbuch zum Arbeitsrecht (6. Aufl., 1703–1725, 1726–1760, 1761–1829, 2006–2041). Beck Verlag.
- Bücker, A. (2024). Kommentierung der „EU Directive 2019/152 on transparent and predictable working conditions. In E. Ales, M. Bell, O. Deinert & S. Robin-Olivier (Hrsg.), *International and European Labour Law*. Nomos, Beck Hart.
- Budde, K. & Krüger, F. (2022). R packages for reproducible analysis of microscopy images (tif and czi files). In Abstracts of the 2022 Joint Annual Conference of the Austrian (ÖGBMT), German (VDE DGBMT) and Swiss (SSBE) Societies for Biomedical Engineering, including the 14th Vienna International Workshop on Functional Electrical Stimulation.
- Capocchi, L., Santucci, J. F., Pawletta, T [T.], Folkerts, H [H.] & Zeigler, B. P. (2020). Discrete-Event Simulation Model Generation based on Activity Metrics. Simulation Modelling Practice and Theory. Vorab-Onlinepublikation. <https://doi.org/10.1016/j.simpat.2020.102122>
- Chavarria, R. F. R., Knapp, R., Hardtstock, F [F.], Wilke, T [T.] & Maywald, U [U.] (2022). EPH106 Evaluating Changes in the Diagnostic Setting and Treatment of Bacterial Sexually Transmitted Infections in Germany During COVID-19: A Descriptive Analysis of German Claims Data From 2018–2021. *Value in Health*, 25(12).
- Chen, J.-G., Zhong, Y.-Z., Chuang, L. Z.-H., Koppe, B. & Chien, H. (2020). Risk management of coastal water safety for recreational activities: The case of Taoyuan coast. *Applied Geography*, 117, 102173. <https://doi.org/10.1016/j.apgeog.2020.102173>
- Csed*, Z., Zavarkó, M. & Magyari, J. (2023). Implications of open eco-innovation for sustainable development: Evidence from the European renewable energy sector. *Sustainable Futures*, 6, 100143. <https://doi.org/10.1016/j.sfr.2023.100143>
- Deicher, S. (2020). Tutanchamuns Ruder. Über die Bewegungskraft der Materie im Alten Ägypten. *Zeitschrift für Kunstgeschichte*, 83(3), 320–333. <https://doi.org/10.1515/ZKG-2020-3003>
- Deicher, S. (2023). Elemente einer Theorie der altägyptischen Modelle. In S. Deicher, H. Wilde, E. M. Mansour & S. M. Abdel Moaty (Hrsg.), *Ancient Egyptian design, contemporary design history and anthropology of design: Bd. 2. Modelle im Alten Ägypten: Objekte des Wissens* (S. 7–38). Kulturverlag Kadmos.
- Deicher, S. (2024). Paul Klee als Akademiker. In V. Sondermann & W. Kaesbach (Hrsg.), *Kataloge der Akademie Galerie - die Neue Sammlung. Walter Kaesbach und die Kunstabakademie Düsseldorf* (S. 91–127). Deutscher Kunstverlag.
- Deicher, S., Wilde, H., Mansour, E. M. & Abdel Moaty, S. M. (Hrsg.). (2023). *Ancient Egyptian design, contemporary design history and anthropology of design: Bd. 2. Modelle im Alten Ägypten: Objekte des Wissens*. Kulturverlag Kadmos.
- Deicher, S., Wilde, H. & Keil, M. (Hrsg.). (2023). *Modelling Ancient Egypt: Papers of the 2019 Luxor University KunstModell-Project-Conference on Ancient Egyptian Models* (1. Auflage). Kulturverlag Kadmos Berlin.
- Denkert, C., Ganschow, J., Dörre, M., Glienke, R. & Flügge, W [W.] (2022). Untersuchung zur axialen Tragfähigkeit selbstschneidender Gewindestecknägel / Studies to the axial load capacity of self-tapping thread inserts. *Konstruktion*, 74(01–02), 56–66. <https://doi.org/10.37544/0720-5953-2022-01-02-56>
- Denkert, C., Gerke, T., Glienke, R., Henkel, K.-M., Dörre, M., Vallée, T., Myslicki, S., Fricke, H., Voß, M., Kaufmann, M. & Flügge, W [W.] (2021). Experimental investigations on pretensioned hybrid joints for structural steel applications. In 6th International Conference on Structural Adhesive Bonding.
- Denkert, C., Gerke, T., Glienke, R., Henkel, K.-M., Dörre, M., Vallée, T., Myslicki, S., Fricke, H., Voß, M., Kaufmann, M. & Flügge, W [W.] (2021). Experimental investigations on pre-tensioned hybrid joints for structural steel applications. *The Journal of Adhesion*. Vorab-Onlinepublikation. <https://doi.org/10.1080/00218464.2021.2003786>
- Denkert, C., Kühne, D., Glienke, R., Fiedler, M., Dörre, M., Henkel, K.-M. & Kästner, M. (2022). Fatigue resistance of sheet metal sections generated by press-bolt joints in cold forming. In Fifth International Conference on Railway Technology | RAILWAYS 2022.
- Denkert, C., Kühne, D., Glienke, R., Fiedler, M., Dörre, M., Flügge, W [W.] & Kästner, M. (2022). Fatigue resistance of sheet metal sections generated by press-bolt joints due to cold forming. In Join Trans 2022: 6th European Conference “Joining and Construction of Railway Vehicles.
- Denkert, C., Kühne, D., Stübe, D., Glienke, R., Fiedler, M., Dörre, M., Henkel, K.-M. & Kästner, M. (2022). Numerical and experimental studies on press-bolt joints for sheet metal applications - Static strength assessment. *Journal of Advanced Joining Processes*, 6(4), 100132. <https://doi.org/10.1016/j.jajp.2022.100132>
- Dilling, H., Krüger, F. & Al-Suadi, S. (2021). Water rites as structuring Elements in ancient Meals. An Examination of the Footwashing in John 12 and 13. In *Ritual Emotion and Materiality in the Early Christian World* (S. 19). Routledge.
- Dokter, G., Boks, C., Rahe, U., Wouterszoon Jansen, B., Hagejärd, S. & Thuvander, L. (2023). The role of prototyping and co-creation in circular economy-oriented innovation: A longitudinal case study in the kitchen industry. *Sustainable Production and Consumption*, 39, 230–243. <https://doi.org/10.1016/j.spc.2023.05.012>
- Dokter, G., Jansen, B. W., Thuvander, L., Rahe, U. & Duijghuisen, J. A. (2022). Cards for Circularity (CFC): Reflections on the use of a card-based circular design tool in design education. *IOP Conference Series: Earth and Environmental Science*, 1078(1), 12057. <https://doi.org/10.1088/1755-1315/1078/1/012057>
- Dokter, G., Thuvander, L. & Rahe, U. (2021). How circular is current design practice? Investigating perspectives across industrial design and architecture in the transition towards a circular economy. *Sustainable Production and Consumption*, 26, 692–708. <https://doi.org/10.1016/j.spc.2020.12.032>
- Dokter, G., van Stijn, A., Thuvander, L. & Rahe, U. (2020). Cards for circularity: Towards circular design in practice. *IOP Conference Series: Earth and Environmental Science*, 588(4), 42043. <https://doi.org/10.1088/1755-1315/588/4/042043>
- Dörre, M., Ebert, A., Glienke, R., Henkel, K.-M. & Flügge, W [W.] (2020). Analytischer Nachweis von reibschlüssigen Verbindungen mit Langlöchern für Leichtmetalle und Stahlwerkstoffe. Buch.
- Dörre, M., Ebert, A., Glienke, R., Henkel, K.-M. & Flügge, W [W.] (2020). Analytischer Nachweis von reibschlüssigen Verbindungen mit Langlöchern für Leichtmetalle und Stahlwerkstoffe. EFB-Forschungsbericht: Nr. 542. Europäische Forschungsgesellschaft für Blechverarbeitung e.V.
- Dörre, M., Glienke, R., Henkel, K.-M. & Wegener, F. (2022). On the preload-time behavior of slip resistant preloaded joints in steel construction under cyclic loads. In ISOPE 2022.
- Dörre, M., Glienke, R., Mantik, J. & Henkel, K.-M. (2022). Use of slotted holes in bolted connections for commercial vehicle construction. In 6th International Conference on Steels in Cars and Trucks.
- Dörre, M., Glienke, R., Schwarz, M. & Henkel, K.-M. (2022). Zur Querkrafttragfähigkeit reibschlüssiger Schraubenverbindungen mit erhöhtem Nennlochspiel. *Materialwissenschaft und Werkstofftechnik*, 53(2), 139–155. <https://doi.org/10.1002/mawe.2020100206>
- Dörre, M., Glienke, R., Wegener, F. & Henkel, K.-M. (2023). Beurteilung des Vorspannkraft-Zeit-Verhaltens gleitfest vorgespannter Verbindungen in Turmbauwerken für Windenergieanlagen. *Stahlbau*, 92(12), 746–763. <https://doi.org/10.1002/stab.202300013>
- Dörre, M., Schwarz, M., Glienke, R., Makevicius, L., Henkel, K.-M. & Stranghöner, N. (2023). Slip-resistant Connections with Imperfections in Steel Construction. In 33rd International Ocean and Polar Engineering Conference (ISOPE).
- Dörre, M., Wegener, F., Glienke, R. & Henkel, K.-M. (2022). Beitrag zu einem Analytischen Berechnungsmodell Quer-Kraftbeanspruchter Schraubverbindungen mit Langlöchern. In VDI-Berichte: Bd. 2403, Schraubenverbindungen 2022: 7. VDI-Fachtagung : Berechnung, Gestaltung, Montage, Anwendung : Berlin, 08. und 09. November 2022. VDI. <https://doi.org/10.51202/9783181024034-267>
- Drobek, C., Bader, R., Schwerdt, D., Weissmann, V. & others (2020). Initial study on removing cellular residues from hydrostatic high-pressure treated allogeneic tissue using ultrasound. In BMT 2020 - 54th Annual Conference of the German Society for Biomedical Engineering (VDE, DGBMT).
- Eich, B., Grote, O. & Ahrens, A. (2023). A Quantum-safe Public-Key-Algorithms Approach with Lattice-based Scheme. In IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- Falbe, D., Böhme, J. G., Falbe, Dechau, Wilfried, Seeböck, T. & Dornbusch, R. (2024). Ulrich Müther: Die denkmalgerechte Sanierung der Messehalle in Rostock-Schutzw. Publikationen des Müther-Archivs: Heft 4. Hochschule Wismar.
- Finger, G. (2022). Simplified calculation of friction mean effective pressure for fast simulation of fuel consumption. *Springer Nature for Applied Sciences*.
- Finger, G. & Praise, G. (2024). On Safety Aspects of Ammonia as Marine Fuel. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), *Lecture Notes in Networks and Systems: Bd. 913, Reliability and Statistics in Transportation and Communication: Selected Papers from the 23rd International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication: Digital Twins - From Development to Application, RelStat-2023, October 19–21, 2023, Riga, Latvia* (1st ed. 2024, S. 57–65). Springer Nature Switzerland; Imprint Springer. https://doi.org/10.1007/978-3-031-53598-7_5
- Finger, G., Tuschling, G., Burgold, T. O., Hanke, A. & Böcker, T. (2020). Ressourcenoptimiertes Lernen durch Virtual Reality. *Schiff & Hafen*, 2020(10), 60–61.
- Finger, G., Wehner, K., Hassel, E., Loest, S. & Baldauf, M [M.] (2020). Echtzeitfähige Motorprozessmodelle für Schiffsmaschinen-Simulatoren. In 25. ASIM Symposium Simulationstechnik (Vorsitz), Proceedings ASIM SST 2020.
- Finger, G., Wehner, K., Hassel, E., Loest, S. & Schaub, M. (2020). Echtzeitfähige Motorsimulation für Schiffsmaschinen Simulatoren. In ASIM Symposium.
- Firdous, R., Keller, F., Stephan, D. & Fromm, A. (2024). High-Resolution 3D printed Objects made of low CO₂ Inorganic Binders. In C. Shi (Hrsg.), *Ultra-High Performance Concrete: Design, Performance, and Application* (1st ed.). Taylor & Francis Group.
- Fishwick, P., Diallo, S. Y., Durak, U., Hou, B., Li, B. H., Su, C., Wang, Y., Zhang, L., Xie, X., Zhou,

- Folkerts, H [H.], Pawletta, T [T.] & Deatcu, C. (2020). Model Generation for Multiple Simulators Using SES/MB and FMI. In 25. (Virtual) ASIM Symposium Simulationstechnik (SST) (S. 13–20). ARGESIM Report 59. <https://doi.org/10.11128/arep.59.a59003>
- Folkerts, H [H.], Pawletta, T [T.] & Deatcu, C. (2021). Model Generation for Multiple Simulators Using SES/MB and FMI. *SNE - Simulation Notes Europe Journal*, 31(1), 25–32. <https://doi.org/10.11128/sne.31.tn.10554>
- Folkerts, H [H.], Pawletta, T [Thorsten] & Durak, U. (2022). An Extension for the Specification and Automated Selection of System Variants Based on the System Entity Structure Using a Problem from Process Industry. In 26. ASIM Symposium Simulationstechnik (SST) (S. 219–226). ARGESIM Report 20. <https://doi.org/10.11128/arep.20.a2018>
- Folkerts, H [H.], Pawletta, T [Thorsten] & Durak, U. (2023). Postconf. selected for publication in: SNE - Simulation Notes Europe Journal. *SNE - Simulation Notes Europe Journal*, 33(1), 17–25. <https://doi.org/10.11128/sne.33.tn.10633>
- Fromm, A. (2022). Digital Fabrication with Cement-Based Materials: Process Classification and Case Studies. In N. Roussel & D. Lowke (Hrsg.), RILEM State-of-the-Art Reports: volume 36, Digital fabrication with cement-based materials: State-of-the-art report of the RILEM TC 276-DFC (S. 11–48). Springer.
- Fromm, A. (2022). Structural Design and Testing of Digitally Manufactured Concrete Structure. In N. Roussel & D. Lowke (Hrsg.), RILEM State-of-the-Art Reports: volume 36, Digital fabrication with cement-based materials: State-of-the-art report of the RILEM TC 276-DFC (S. 187–222). Springer.
- Fromm, A. (2024). Flächenkörper, insbesondere Geschosdecke eines Gebäudes, aufweisend mehrere Flächenelemente aus Holz.
- Fromm, A. & Hack, N. (Hrsg.). (2023). Visions and Strategies for Reinforcing Additively Manufactured Constructions 2023.
- Fromm, A., Hansmann, H., Ofe, S. & Schimmelpfennig, T.-M. (2020). Liquid Reinforcement. *Journal of Civil Engineering and Architecture*, 14(10). <https://doi.org/10.17265/1934-7359/2020.10.005>
- Fromm, A. & Mechtcherine, V. (Hrsg.). (2022). Open Conference Proceedings (OCP): Bd. 1. Vision and Strategies for Reinforcing Additively Manufactured Concrete Structures. <https://www.tib-op.org/ojs/index.php/ocp/issue/view/3> <https://doi.org/10.52825/ocp.vii>
- Fromm, A., Röder, P., Sutter, M. & Keller, F. (2024). Biaxial spanning flat solid wood slab. In P. Block, G. Boller, C. DeWolf, J. Pauli & W. Kaufmann (Vorsitz), Proceedings of the IASS 2024 Symposium Redefining the Art of Structural Design.
- Genehr, S., Bielfeldt, M., Schröder, M., Stählike, S., Nebe, J. B., Spors, S. & Krüger, F. (Hrsg.). (2023). Modelling three dimensions of provenance for wet-lab experiments: prospective, retrospective, and evolution: Proceedings of Workshop on Metadata and Research (objects) Management for Linked Open Science. PUBLISSO.
- Gerasimova, V., Philipp, R. & Praise, G. (2021). Service Design for Trans-National Smart Supply Chains. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 195, Reliability and Statistics in Transportation and Communication: Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat2020, 14–17 October 2020, Riga, Latvia (1st ed. 2021, S. 377–388). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-030-68476-1_35
- Gerasimova, V., Praise, G. & Hoffmann, T. (2023). NFT-enriched smart contracts for smart circular economy models. *Entrepreneurship and Sustainability Issues*, 11(2), 93–110. [https://doi.org/10.9770/jesi.2023.11.2\(7\)](https://doi.org/10.9770/jesi.2023.11.2(7))
- Gerdesmeier, D., Reimers, H.-E. & Roffia, B. (2020). Unravelling the Secrets of Euro Area Inflation: A Frequency Decomposition Approach. *Folia Oeconomica Stetinensis*, 20(1), 133–162.
- Gerdesmeier, D., Reimers, H.-E. & Roffia, B. (2023). Investigating the Inflation-Output-Nexus for the Euro Area: Old Questions and New Results. *Economies*, 11.
- Gericke, A., Henkel, K.-M., Drebendorf, K., Kuhlmann, U. & Gienke, R. (2020). Lichtbogenlöten: Verbessern der Schwingfestigkeit von Stahlkonstruktionen. In DVS Congress.
- Gericke, A., Henkel, K.-M., Drebendorf, K., Kuhlmann, U. & Gienke, R. (2020). Lichtbogenlöten - Verbessern der Schwingfestigkeit von Stahlkonstruktionen. In DVS Congress 2020 (virtuell).
- Gericke, T., Rickerts, L. M., Mattes, A. & Schimmelpfennig, T.-M. (2023). Thermal optimization of injection molds using functionally graded materials. In Fraunhofer Direct Digital Manufacturing Conference (DDMC 2023).
- Gericke, T., Rickerts, L. M., Mattes, A. & Schimmelpfennig, T.-M. (2023). Thermal optimization of injection molds using functionally graded. In Fraunhofer Direct Digital Manufacturing Conference (DDMC 2023).
- Gerke, T., Denkert, C., Vallée, T., Gienke, R. & Fricke, H. (2021). Weiterentwicklung der vorgespannten Hybridverbindung mit Schließringbolzen und hochfesten Schrauben.
- Gerlitz, L. & Meyer, C. (2021). Small and Medium-Sized Ports in the TEN-T Network and Nexus of Europe's Twin Transition: The Way towards Sustainable and Digital Port Service Ecosystems. *Sustainability*, 13(8), 4386. <https://doi.org/10.3390/su13084386>
- Gerlitz, L., Meyer, C., Hack, A. & Praise, G. (2021). Creative Industries as Key Partners for Blue and Green Growth in the Baltic Sea Region: A Modern Guide Towards Sustainable Regional (Cross)Innovation in SMEs. Conference: IFKAD 2021, 1st - 3rd of September. 16th International Forum on Knowledge Asset Dynamics. Managing Knowledge in Uncertain Times. Rome, Italy.
- Gerlitz, L., Meyer, C. & Praise, G. (2021). Marketing and branding strategy for the South Baltic Sea Region: reinforcing regional innovation in SMEs through cross-border collaboration models in the age of transformation. *Entrepreneurship and Sustainability Issues*, 8(4), 467–487. <https://ideas.repec.org/a/ssi/jouesi/v8y2021i4p467-487.html>
- Gerlitz, L., Mildenhay, E. & Praise, G. (2022). Ammonia as Clean Shipping Fuel for the Baltic Sea Region. *Transport and Telecommunication Journal*, 23(1), 102–112. <https://doi.org/10.2478/ttj-2022-0010>
- Ghiani, M., Lehne, M., Ziemssen, T [Tjalf], Dillenseger, A., Maywald, U [U.] & Wilke, T [Thomas] (2022). RWD24 Assessing the Performance of Propensity Score Methods in Balancing Unobservable Confounders: Evidence From Linked Data in Multiple Sclerosis. *Value in Health*, 25(12), S452. <https://doi.org/10.1016/j.jval.2016.09.2249>
- Ghiani, M., Maywald, U [U.], Wilke, T [T.] & Heeg, B. (2020). PCN227 Recent Uptake Of New Agents In First-Line Treatment Of Metastatic Castration Resistant Prostate Cancer By Age Group: A Retrospective Analysis Of German Claims Data. *Value in Health*, 23, S463. <https://doi.org/10.1016/j.jval.2020.08.364>
- Ghiani, M., Mueller, S., Maywald, U [U.] & Wilke, T [T.] (2021). Hospitalized with stroke at the weekend: Higher cost and risk of early death? *Int J Stroke*. Vorab-Onlinepublikation. <https://doi.org/10.1177/1747493021992597>
- Ghiani, M. & Wilke, T [T.] (2022). Mental Health in COVID Times: A Quasi-Experimental Analysis of the Impact of Lockdown Measures on Mental Healthcare Use in Germany. *Value in Health*, 25(1).
- Ghiani, M., Zhuleku, E [E.], Dillenseger, A., Maywald, U [U.], Fuchs, A [A.], Wilke, T [T.] & et al. (2023). Data Resource Profile: The Multiple Sclerosis Documentation System 3D and AOK PLUS Linked Database (MSDS-AOK PLUS). *J Clin Med*, 12(4), 1441. <https://www.mdpi.com/2077-0383/12/4/1441>
- Ghiani, M., Zhuleku, E [Evi], Dillenseger, A., Maywald, U [U.], Fuchs, A [Andreas], Wilke, T [Thomas] & Ziemssen, T [Tjalf] (2023). Data Resource Profile: The Multiple Sclerosis Documentation System 3D and AOK PLUS Linked Database (MSDS-AOK PLUS). *Journal of Clinical Medicine*, 12(4), 1441. <https://doi.org/10.3390/jcm12041441>
- Gierend, K., Krüger, F., Waltemath, D., Fünfgeld, M., Zeleke, A. A. & Ganslandt, T. (2021). Approaches and Criteria for Provenance in Biomedical Data Sets and Workflows: a Scoping Review Protocol. *JMIR Research Protocols*. Vorab-Onlinepublikation. <https://doi.org/10.2196/31750>
- Gierend, K., Krüger, F., Genehr, S., Hartmann, F., Ganslandt, T., Waltemath, D. & Zeleke, A. A. (2022). Challenges and potential bottlenecks for the accomplishment of provenance in biomedical data sets and workflows. In Proceedings of the GMDS.
- Gierend, K., Wodke, J. A., Genehr, S., Gött, R., Henkel, R., Krüger, F., Mandalika, M., Michaelis, L., Scheuerlein, A., Schröder, M., Zeleke, A. A. & Waltemath, D. (2023). TAPP: Defining standard provenance information for clinical research data and workflows - Obstacles and opportunities. In Y. Ding, J. Tang, J. Sequeda, L. Aroyo, C. Castillo & G.-J. Houben (Hrsg.), Companion Proceedings of the ACM Web Conference 2023 (S. 1551–1554). ACM. <https://doi.org/10.1145/3543873.3587562>
- Gillner, L. & Auer, E. (2023). Towards a Traceable Data Model Accommodating Bounded Uncertainty for DST Based Computation of BRCA1/2 Mutation Probability With Age. *JUCS - Journal of Universal Computer Science*, 29(11), 1361–1384. <https://doi.org/10.3897/jucs.112797>
- Gienke, R. (2023). Beurteilung der Schwingfestigkeit von Rundnähten in WEA-Türmen. In 13. Rostocker Schweißtag.
- Gienke, R. (2023). Prüfen von Schraubenverbindungen: Beurteilung der Schwingfestigkeit. In 19. Kolloquium Werkstoff- und Bauteilprüfung.
- Gienke, R., Hagemann, M., Hanebeck, R., Schwerdt, D., Denkert, C., Wegener, F. & Dörre, M. (2024). Experimental Investigations of the Mechanical-technological Properties and Fatigue Strength of Stainless Steel Bolting Assemblies. In International Ocean and Polar Engineering Conference.
- Gienke, R., Hagemann, M., Hanebeck, R., Schwerdt, D., Denkert, C., Wegener, F. & Dörre, M. (2024). Fatigue Strength of Bolting Assemblies made from Stainless Steel subjected to Axial Loads. In Nordic Steel Construction Conference 2024.
- Gienke, R., Hagemann, M., Hanebeck, R., Schwerdt, D., Denkert, C., Wegener, F. & Dörre, M. (2024). Improving the Fatigue Strength of Butt Welds in the As-Welded and Grit-Blasted Condition for Steel Towers of Wind Turbines. International Ocean and Polar Engineering. Vorab-Onlinepublikation. <https://doi.org/10.17736/jope.2024.jc928>
- Gienke, R., Kalkowsky, F., Hobbacher, A. F., Holch, A., Luther, A., Ripsch, B., Günther, H.-P., Kersten, R. & Henkel, K.-M. (2022). Bewertung der Ermüdungsfestigkeit von Rundnähten in Türmen von Windenergieanlagen - Ein Vergleich von experimentellen Untersuchungen und numerisch gestützter Nachweisführung auf Basis örtlicher Konzepte. In DVS CONGRESS 2022.
- Gienke, R., Kalkowsky, F., Hobbacher, A. F., Holch, A., Ripsch, B., Günther, H.-P. & Henkel, K.-M. (2023). Evaluation of the Fatigue Resistance of Butt Welds in Steel Towers of Wind Turbines by Fatigue Tests and Numerical Based Design with Local Approaches. In 33rd International Ocean and Polar Engineering Conference (ISOPe).
- Gienke, R., Kalkowsky, F., Hobbacher, A. F., Holch, A., Thiele, M., Marten, F., Kersten, R., Henkel, K.-M. & Fricke, H. (2024). Evaluation of the fatigue resistance of butt-welded joints in towers of wind turbines: A comparison of experimental studies with small scale and component tests as well as numerical based approaches with local concepts. *Welding in the World*, Le Soudage Dans Le Monde, 68(7). <https://doi.org/10.1007/s40194-023-01630-3>
- Gienke, R., Schröder, M., Schwerdt, D., Kalkowsky, F., Dörre, M., Flügge, W [W.], Ehrhardt, L. & Stranghöner, N. (2024). Fatigue strength of non-welded constructional details using the nominal stress concept based on synthetic S-N curves from FKM approach. In Nordic Steel Construction Conference 2024.
- Gienke, R., Schröder, M., Schwerdt, D., Flügge, W [W.], Kalkowsky, F., Dörre, M., Stranghöner, N. & Ehrhardt, L. (2024). Recent Investigations on the Fatigue Strength of Free Edges in Steel Structures. In International Ocean and Polar Engineering Conference.
- Gienke, R. & Schwarz, M. (2022). Beurteilung der Schwingfestigkeit von Schrauben großer Durchmesser im Maschinen- und Anlagenbau unter Berücksichtigung von Herstellungs- und Randschichteinflüssen. In VDI-Berichte: Bd. 2403, Schraubenverbindungen 2022: 7. VDI-Fachtagung : Berechnung, Gestaltung, Montage, Anwendung : Berlin, o8. und o9. November 2022. VDI. <https://doi.org/10.51202/9783181024034-3>
- Gienke, R., Schwarz, M., Ebert, A., Blunk, C. & Wanner, M.-C. (2020). Joints with lockbolts in steel structures: Part 2: Design and execution. *Steel Construction*, 13. <https://doi.org/10.1002/stco.202000039>
- Gienke, R., Schwarz, M., Ebert, A., Blunk, C. & Wanner, M.-C. (2020). Joints with lockbolts in steel structures – Part 1: Lockbolt technology. *Steel Construction*, 13(2), 120–127.
- Gienke, R., Schwarz, M., Ebert, A., Blunk, C. & Wanner, M.-C. (2020). Joints with lockbolts in steel structures: Part 1: Lockbolt technology. *Steel Construction*, 13(2), 120–127.
- Gienke, R., Schwarz, M., Marten, F., Eichstädt, R., Schwerdt, D. & Meyer, M. (2021). Zur Ermüdungsfestigkeit großer Schrauben im Stahlbau unter Berücksichtigung von Herstell- und Randschichteinflüssen - Teil 1: Bisheriger Kenntnisstand. *Stahlbau*, 91(2), 121–138. <https://doi.org/10.1002/stab.202100076>
- Gienke, R., Schwarz, M., Marten, F., Eichstädt, R., Schwerdt, D. & Meyer, M. (2021). Zur Ermüdungsfestigkeit großer Schrauben im Stahlbau unter Berücksichtigung von Herstell- und Randschichteinflüssen - Teil 2: Versuchsergebnisse und Bewertung. *Stahlbau*, 91(2), 139–155. <https://doi.org/10.1002/stab.202100096>
- Gienke, R., Schwarz, M., Marten, F., Eichstädt, R., Schwerdt, D., Hagemann, M. & Dörre, M. (2022). On fatigue strength of large-size bolt-assemblies in steel constructions under consideration of manufacturing and surface condition related impacts. In ISOPe 2022.
- Gienke, R., Schwarz, M., Marten, F., Eichstädt, R., Schwerdt, D., Meyer, M. & Dörre, M. (2022). Zur Ermüdungsfestigkeit großer Schrauben im Stahlbau unter Berücksichtigung von Herstell- und Randschichteinflüssen - Teil 2: Versuchsergebnisse und Bewertung. *Stahlbau*, 91(1).
- Gienke, R., Schwarz, M., Marten, F., Eichstädt, R., Schwerdt, D., Meyer, M. & Dörre, M. (2022). Zur Ermüdungsfestigkeit großer Schrauben im Stahlbau unter Berücksichtigung von Herstell- und Randschichteinflüssen - Teil 1: Bisheriger Kenntnisstand. *Stahlbau*, 91(1). <https://doi.org/10.1002/stab.202200001>
- Gienke, R., Schwarz, M., Hagemann, M., Seidel, M. & Dörre, M. (2023). Further Development of Detail Categories for Bolt-assemblies Subjected to Normal Stress in Steel Constructions. In EUROSTEEL 2023.
- Gienke, R., Schwarz, M., Johnston, C. F., Hagemann, M. & Seidel, M. (2023). Update on the Fatigue Strength of Large-size Bolt-assemblies in Steel Constructions. *International Journal of Offshore and Polar Engineering*, 33(1), 81–89. <https://doi.org/10.17736/jope.2023.jc88>
- Gienke, R., Schwerdt, D., Kalkowsky, F., Ebert, A., Ripsch, B. & Henkel, K.-M. (2020). Vergleich der Konzepte zum Nachweis der Ermüdungsfestigkeit geschweißter und nichtgeschweißter Bauteile nach Eurocode 3 und FKM-Richtlinie. In DVS Congress.
- Götten, M., Lochmann, S., Ahrens, A., Lindner, E. & Roosbroeck, J. V. (2020). 2000 Serial FBG Sensors Interrogated With a Hybrid CDM-WDM Scheme. *Journal of Lightwave Technology*, 2020(4), 2493–2503.
- Götten, M., Lochmann, S., Ahrens, A., Lindner, E., Vlekken, J. & Roosbroeck, J. V. (2020). 4000 Serial FBG Sensors Interrogated with a Hybrid CDM-WDM System. In IEEE Sensors.
- Götten, M., Lochmann, S., Ahrens, A. & Benavente-Peces, C [C.] (2020). A Robust Serial FBG Sensor Network with CDM Interrogation allowing Overlapping Spectra. In International Conference on Sensor Networks (Sensorsnets).
- Götten, M., Lochmann, S., Ahrens, A., Roosbroeck, J. V., Vlekken, J., Lindner, E., van Hoe, B. & Benavente-Peces, C [C.] (2020). Hybrid CDM-WDM Scheme for Interrogating 2x2000 Serial FBG Sensors. In Optical Fiber Sensors Conference 2020 Special Edition.
- Götten, M., Lochmann, S., Ahrens, A., Lindner, E., Vlekken, J. & Roosbroeck, J. V. (2021). A CDM-WDM Interrogation Scheme for Massive Serial FBG Sensor Networks. *IEEE Sensors Journal*.
- Götten, M., Lochmann, S., Ahrens, A., Lindner, E., Vlekken, J. & Roosbroeck, J. V. (2021). Accuracy Evaluation of a CDM-WDM Interrogator for Quasi-Distributed FBG Sensing. In IEEE Sensors.
- Götten, M., Lochmann, S., Ahrens, A. & Benavente-Peces, C [C.] (2022). Evaluation of a CDM Interrogation Scheme Allowing Spectrally Overlapping FBG Sensors. In Communications in Computer and Information Science (CCIS) (S. 21–38). Springer.
- Grienitz, V. (2024). Monitoring & Roadmapping von Zukunftsszenarien mit Szenario-Lackmus-Test. In Proceedings of the 18th Symposium für Vorausschau und Technologieplanung (SVT 2024).
- Griesinger, F., Ramagopalan, S., Cheung, W. Y., Wilke, T [T.], Mueller, S., Gupta, A. & et al. (2023). Association between treatment and improvements in overall survival of patients with advanced/metastatic non-small cell lung cancer since 2011: A study in the United States, Canada, and Germany using retrospective real-world databases. *Cancer*. Vorab-Onlinepublikation. <https://doi.org/10.1002/cncr.34778>
- Grote, O. & Ahrens, A. (2022). Simulation and Application Purpose of a Randomized Secret Key with Quantum Key Distribution. *Electrical, Control and Communication Engineering*, 18(1), 43–49.
- Grote, O., Ahrens, A. & Benavente-Peces, C [C.] (2021). Modeling and Simulation of Quantum Key Distribution using OptSim. In IEEE Microwave Theory and Techniques in Wireless Communications (MTT-W).
- Grote, O., Ahrens, A. & Benavente-Peces, C [C.] (2021). Small Quantum-safe Design Approach for Long-term Safety in Cloud Environments. In 7th International Conference on Engineering and Emerging Technologies (ICEET).
- Hackel, M. (2023). NB-LAB Iquitos / Peru - A Student Design-Build Projekt: Concerted Action and Insights of an Experimental Project for Interdisciplinary Research on Sustainable Development and Environmental Protection in the Amazon Rainforst. Hochsch

- Hackel, M. & Flassnöcker, S. (2023). SüdNordSüd-Kooperationen für Entwurf und Umsetzung von Experimentalbauten. Die neue Hochschule(2).
- Hackel, M., Gaube, A. & Lampe, S. (2018). Intercultural Hands on Projects – Experiences in Architectural Education in Asian and European Context. SHS Web of Conferences, 41, 2002. <https://doi.org/10.1051/shsconf/20184102002>
- Hackel, M. & Hackel, A. (2019). Architecture, Ecology and Economy: Synergy or Contradiction? MATEC Web of Conferences, 280, 3001. <https://doi.org/10.1051/matecconf/201928003001>
- Hackel, M., Hellicar, K., Joedicke, J. A., Wollensak, M., Hochschule Wismar & Regionaler Planungsverband Westmecklenburg (Hrsg.). (2024). Bezahlbares Wohnen für unsere Region: Dassow. Architektonische Typologien der Zukunft. Callidus Verlag.
- Hackel, M. & Wollensak, M. (2019). Think Global: Act Local: Effekt Internationalisierung zu Hause. Die neue Hochschule(6).
- Hadjı, P., Hardtstock, F [F.], Wilke, T [T.], Joeres, L., Toth, E., Mockel, L. & et al. (2020). Estimated epidemiology of osteoporosis diagnoses and osteoporosis-related high fracture risk in Germany: A German claims data analysis. Arch Osteoporos, 15(1), 127. <https://doi.org/10.1007/s11657-020-00769-8>
- Hagejärd, S., Dokter, G., Rahe, U. & Femenias, P. (2021). My apartment is cold! Household perceptions of indoor climate and demand-side management in Sweden. Energy Research & Social Science, 73, 101948. <https://doi.org/10.1016/j.erss.2021.101948>
- Hagejärd, S., Dokter, G., Rahe, U. & Femenias, P. (2023). "It's never telling me that I'm good!" Household experiences of testing a smart home energy management system with a personal threshold on energy use in Sweden. Energy Research & Social Science, 98, 103004. <https://doi.org/10.1016/j.erss.2023.103004>
- Hagejärd, S., Ollár, A., Femenias, P. & Rahe, U. (2020). Designing for Circularity: Addressing Product Design, Consumption Practices and Resource Flows in Domestic Kitchens. Sustainability, 12(3), 1006. <https://doi.org/10.3390/su12031006>
- Hagemann, M., Schwarz, M., Glienke, R., Schwerdt, D., Henkel, K.-M. & Flügge, W [W.] (2022). Tragverhalten von Zugkraftbeanspruchten Lockstud-Systemen zur Herstellung von Wartungsfreien Verbindungen. In 12. Gemeinsames Kolloquium zur Mechanischen Fügetechnik.
- Hagemann, M., Schwarz, M., Glienke, R., Schwerdt, D. & Henkel, K.-M. (2023). Characterisation of the Load-bearing Behaviour of Lockstud Systems Based on Experimental Investigations. In 33rd International Ocean and Polar Engineering Conference (ISOPE).
- Hagemann, M., Schwarz, M., Glienke, R., Schwerdt, D. & Henkel, K.-M. (2023). Experimental Investigations on Load-bearing Capacity and Characteristic Preload of Lockstud Systems. In EUROSTEEL 2023.
- Hagemann, M., Schwarz, M., Glienke, R., Schwerdt, D. & Henkel, K.-M. (2023). The Lockstud System: Characterisation of an Innovative Fastening Technology for Establishing Design Rules. International Journal of Offshore and Polar Engineering, 33(4), 437–445. <https://doi.org/10.17736/ijope.2023.jc919>
- Hagemann, M., Schwarz, M., Schröder, M., Blunk, C., Glienke, R., Schwerdt, D. & Henkel, K.-M. (2024). Experimental Investigations of the Preload-time-behaviour of Lockstud Systems Enhanced by Finite Element Analysis. In International Ocean and Polar Engineering Conference.
- Haghgo, M., Dognini, A., Storek, T., Plamanescu, R., Rahe, U., Gheorghe, S., Albu, M., Monti, A. & Dirk, M. (2020). Open Smart Energy Eco-System for the Future. IOP Conference Series: Earth and Environmental Science, 588(2), 22048. <https://doi.org/10.1088/1755-1315/588/2/022048>
- Haghgo, M., Dognini, A., Storek, T., Plamanescu, R., Rahe, U., Gheorghe, S., Albu, M., Monti, A. & Müller, D. (2021). A cloud-based service-oriented architecture to unlock smart energy services. Energy Informatics, 4(1). <https://doi.org/10.1186/s42162-021-00143-x>
- Hansmann, H. (2020). Werkstoff und Verfahren zu seiner Herstellung zur Erzielung hoher hydraulischer Leitfähigkeit von gebrannten Tonkörpern (DE 10 2020 004 441 A1). Deutschland.
- Hardtke, F. (2016). Körperschaftsteuerhinterziehung/verdeckte Gewinnausschüttung. In I. Flore & M. Tsambakis (Hrsg.), Steuerstrafrecht: Kommentar (2. Auflage, S. 1398–1404). Carl Heymanns Verlag.
- Hardtke, F. (2021). Verteidigung im Steuerstrafrecht. In J. Bockemühl (Hrsg.), Wolters Kluwer Online Fachbücher. Handbuch des Fachanwalts Strafrecht (8. Auflage, S. 739–820). Carl Heymanns Verlag; Wolters Kluwer Deutschland GmbH.
- Hardtke, F. (2023). Kommentierung des Einspruchsverfahrens, §§ 347 – 367 AO. In A. Wedelstädt (Hrsg.), Abgabenordnung und Finanzgerichtsordnung: Kommentar (22. Auflage 2018). Schäffer-Poeschl Verlag für Wirtschaftssteuern Recht GmbH.
- Hardtke, F. (2023). Verteidigung im Steuerstrafrecht: 21. In Bockemühl (Hrsg.), Handbuch Strafrecht (9. Aufl., S. 771–846). Carl Heymanns (Wolters Kluwer).
- Hardtstock, F [F.], Maywald, U [U.], Timmermann, H [H.], Unmüßig, V [V.], Müller, S [S.], Wilke, T [T.] & et al. (2021). Extent of non-adherence and non-persistence in asthma patients: analysis of a large claims data set. J Asthma, 1–11. <https://doi.org/10.1080/02770903.2021.1872359>
- Hardtstock, F [F.], Sbarigia, U., Kocaata, Z., Wilke, T [T.] & Sylvester, S. V. (2020). Preferences of Patients with Chronic Hepatitis B - A Discrete Choice Experiment on the Acceptability of Functional Cure. Patient Prefer Adherence, 14, 613–624. <https://doi.org/10.2147/PPA.S247745>
- Harfosh, M. A., Wilichowski, M. & Rudlof, H. (2017). Mehrzonenwärmespeicher für Gewerbe und Industrie. UmweltMagazin(9), 41–42.
- Hartleb, D., Ahrens, A., Purvinis, O [O.] & Zascerinska, J. (2020). Analysis of Free Time Intervals between Buyers at Cash Register using Generating Functions. In International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS).
- Hartleb, D., Ahrens, A., Purvinis, O [O.], Zascerinska, J. & Micevicien*, D. (2020). Internal and External Factor Analysis in Bottleneck Detection in Shop Sales: The Case of Grocery Shops in Lithuania. In International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS).
- Hartleb, D., Ahrens, A. & Zascerinska, J. (2021). Conceptual Framework on Use of Generating Functions for Modeling the Payment Process at Cash Register. In 19th International Conference e-Society.
- Hartleb, D., Ahrens, A. & Zascerinska, J. (2021). Conceptual Framework on Use of Generating Functions for Modeling the Payment Process at Cash Register. In 19th International Conference e-Society.
- Hartleb, D., Ahrens, A. & Zascerinska, J. (2021). Exploring the Impact of Burstiness on the Service Process at the Cash Register. In 13th International Scientific and Practical Conference Environment. Technology. Resources.
- Hartleb, D., Ahrens, A. & Zascerinska, J. (2021). Exploring the Impact of Burstiness on the Service Process at the Cash Register. In 13th International Scientific and Practical Conference Environment. Technology. Resources.
- Haustein, T., Busweiler, S., Haustein, V., Laar, C. von [Claudia] & Plarre, R. (2019). Laboratory breeding of Korynetes caeruleus (Coleoptera: Cleridae) for the biological control of Anobium punctatum (Coleoptera: Ptinidae). European Journal of Entomology, 116, 362–371. <https://doi.org/10.14411/eje.2019.038>
- Heidbrede, T., Mevius, A., Kessel, S., Wilke, T [T.], Maywald, U [U.] & Thiem, A. (2023). Real-world systemic treatment of patients with psoriasis: A retrospective study based on German claims data. J Dtsch Dermatol Ges. <https://www.ncbi.nlm.nih.gov/pmc/articles/37073599/>
- Helena Stehle, Annekatrin Bock, Claudia Wilhelm, Nina Springer, Merja Mahrt, Katharina Lobinger, Christine Linke, Ines Engelmann, Hanne Detel & Cornelia Brantner (2024). In/Visibility in the Digital Age: A Literature Review From a Communication Studies Perspective. International Journal of Communication, 18(0), 23. <https://ijoc.org/index.php/ijoc/article/view/20567/4857>
- Henesey, L., Silonosov, A., Meyer, C. & Gerlitz, L. (2021). Smart Container Stacking in the Yard. In (S. 37–44). CAL-TEK. <http://bth.diva-portal.org/smash-record.jsf?pid=diva2%3A1703758&dswid=8905>
- Hennemeyer, A. F. (2019). Die neogotischen Paulskirche Schwerin aus den 1860er Jahren: Sichtmauerwerk und Formsteine an einem historistischen Bau. In Deutsche Stiftung Denkmalschutz (Hrsg.), Backsteinbaukunst Band 7: Mit Denkmalkultur Europa auf der Spur (S. 176–183).
- Hennemeyer, A. F. (2019). Die Publikation antiker Architekturpolychromie im 19. Jahrhundert. In U. Hasser (Hrsg.), Polychromie & Wissen (S. 150–169). Hirmer.
- Hennemeyer, A. F. (2022). Die Architektur des Tempels. In U. Hofstätter, A. Schmölder-Veit & N. Schröder-Griebel (Hrsg.), Das antike Olympia in München: 1972–2022 (S. 186–195). Propylaeum.
- Hennemeyer, A. F., Schmölder-Veit, A. & Ziegler, H. (2022). Das Modell des Zeustempels im Münchner Abgussmuseum. In U. Hofstätter, A. Schmölder-Veit & N. Schröder-Griebel (Hrsg.), Das antike Olympia in München: 1972–2022. Propylaeum.
- Herrmann, B., Ringel, M., Jörss, D. & Fink, C. (2021). Modellierung des Betriebsverhaltens eines Synchrongenerators als Stromerzeuger. In 21st EUSPEN International Conference & Exhibition.
- Hochschule Wismar (Hrsg.). (2020). Forschung und Innovation: Ausgewählte Forschungsprojekte der Hochschule Wismar. 2016–2019.
- Hoffmann, T. & Praise, G. (2023). On the Legal and Economic Implications of Tele-Driving. Machines, 11(3), 331. <https://doi.org/10.3390/machines11030331>
- Hofstätter, U., Schmölder-Veit, A. & Schröder-Griebel, N. (Hrsg.). (2022). Das antike Olympia in München: 1972–2022. Propylaeum. <http://nbn-resolving.org/urn:nbn:de:bsz:31-epflicht-2017262>
- Holch, A., Dörre, M., Kalkowsky, F. & Glienke, R. (2022). Experimentelle Untersuchungen zum Tragverhalten von Schrauben und Schließringbolzensystemen unter kombinierter Axial- und Querkraftbelastung. In VDI-Berichte: Bd. 2403, Schraubenverbindungen 2022: 7. VDI-Fachtagung : Berechnung, Gestaltung, Montage, Anwendung : Berlin, o8. und o9. November 2022. VDI. <https://doi.org/10.5120/978318024034-449>
- Holch, A., Glienke, R., Dörre, M. & Henkel, K.-M. (2024). Evaluation of the Load-Bearing Behaviour of Bolts and Lockbolt Systems Under Combined Tension and Shear Loading. In 3rd International Conference on Advanced Joining Processes 2023 (S. 3–13).
- Holch, A., Glienke, R., Dörre, M. & Henkel, K.-M. (2024). Resistance of Lockbolt Systems made from carbon and stainless steel subjected to combined tension and shear loading. In International Ocean and Polar Engineering Conference.
- Hornberger, C., Herrmann, B., Daeschlein, G., Podewils, S. von, Sicher, C., Kuhn, J., Masur, K., Meister, M. & Wahl, P. (2020). Detecting Bacteria on Wounds with Hyperspectral Imaging in Fluorescence Mode. Current Directions in Biomedical Engineering, 6(3), 264–267. <https://doi.org/10.1515/cdbme-2020-3067>
- Hrenov, G., Reinhold, K., Järvis, M., Tint, P. & Praise, G. (2023). Managing the Hazards of Ammonia in Seaports as a Potential Alternative Fuel for Green Shipping. In M. P. Brito, T. Aven, P. Baraldi, M. epin & E. Zio (Hrsg.), European Conference on Safety and Reliability (ESREL), 3rd September - 7th September 2023: The topic of ESREL 2023 is "The Future of Safety in a Reconnected World". We are delighted to announce ESREL2023, the 33rd European Safety and Reliability Conference. The conference will be held at the University of Southampton, United Kingdom, on 3 - 7 September 2023 (S. 1110–1117). Research Publishing Services. https://doi.org/10.3850/978-18-8071-1_P399-cd
- Huhs, N [N.], Bartelt, J., Simanski, O. & Hagendorff, O. (2023). Development of a Diagnosis Technique for Air Conditioning Systems. In IEEE Xplore, 2023 Int. Interdisciplinary PhD Workshop (IIPhDW).
- (2023). I2PhDW + AUTSYM 2023, 3–5. Mai 2023, HS Wismar.
- (2022). IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- (2023). IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- (2023). IEEE Xplore, 2023 Int. Interdisciplinary PhD Workshop (IIPhDW).
- Iswantoro, A., Cahyono, B., Zaman, M. B., Semin & Busse, W. (2021). The effect of use of biodiesel B30 from palm oil to degradation of oil lubrication in 1-cylinder diesel engine 4-stroke. In IOP Conf. Series: Earth and Environmental Science.
- Jacob, A., Ahrens, A., Zascerinska, J. & Benevente-Peces, C. (2020). AHP-based Evaluation of the Acceptance of Autonomous Driving. In International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS).
- Jammer, D., Junglas, P., Pawletta, T [Thorsten] & Pawletta, S. (2022). A Simulator for NSA-DEVS in Matlab. In 26. ASIM Symposium Simulationstechnik (SST) (S. 93–100). ARGESIM Report 20. <https://doi.org/10.11128/arep.20.a2005>
- Jammer, D., Junglas, P., Pawletta, T [Thorsten] & Pawletta, S. (2022). Implementing Standard Examples with NSA-DEVS. SNE - Simulation Notes Europe Journal, 32(4), 195–202.
- Jammer, D., Junglas, P., Pawletta, T [Thorsten] & Pawletta, S. (2023). Modeling and Simulation of a Real-world Application using NSA-DEVS. SNE - Simulation Notes Europe, 33(4), 149–156. <https://doi.org/10.11128/sne.33.tn.10662>
- Jammer, D., Junglas, P., Pawletta, T [Thorsten] & Pawletta, S. (2023). Postconf. selected for publication in: SNE - Simulation Notes Europe Journal. SNE - Simulation Notes Europe Journal, 33(4), 149–156. <https://doi.org/10.11128/sne.33.sw.10661>
- Jammer, D., Pawletta, S. & Jeinsch, T. (2023). DES Simulation with NSA-DEVS in Matlab. In I2PhDW + AUTSYM 2023, 3–5. Mai 2023, HS Wismar.
- Jäntschi, S [Sandra]. (2023). Permanente Graffitisysteme auf Betonoberflächen im Außenbereich [Dissertation, Universität Rostock]. DataCite.
- Jäntschi, S [S.], Laar, C. von [C.] & Bombeck, H. (2020). Functionality and durability of anti-graffiti-systems on concrete. In MATEC Web of Conferences, Proceedings MADBUD 2020.
- Jäntschi, S [Sandra], Laar, C. von [Claudia] & Bombeck, H. (2021). Graffitschutz auf Beton. In Bundesverband Feuchte und Altbausanierung e. V. (Hrsg.), Schützen und Erhalten - mit Sachverständ und Handwerkern: Tagungsband der 31. Hanseatischen Sanierungstage (S. 253–270). Fraunhofer IRB Verlag.
- Jin, Q., Wallbaum, H. & Rahe, U. (2020). The influence of indoor environmental quality and workspace design on employees' health and work performance. In Proceedings of the Transdisciplinary Workplace Research (TWR) Conference 2020.
- Jörss, D., Herrmann, B. & Fink, C. (2022). Modeling the Operating Behavior of an Industrial Diesel Engine used as an Electrical Power Generator. SNE - Simulations Notes Europe, 32(2), 55–61. <https://doi.org/10.11128/sne.32.tn.1060>
- Jörss, D., Ringel, M., Buchholz, B. & Fink, C. (2023). Gekoppelte Simulation des Einspritz- und Verbrennungsvorgangs eines Industrie-Dieselmotors. In ASIM Workshop 2023 STS / GMMS / EDU.
- Junglas, P. & Pawletta, T [T.] (2020). Modeling of non-standard queuing policies - an invitation to ARGESIM Benchmark C22. In 25. (Virtual) ASIM Symposium Simulationstechnik (SST) (S. 9–12). ARGESIM Report 59. <https://doi.org/10.11128/arep.59.a59002>
- Junker, S., Müller, S [S.] & Wilke, T [T.] (2022). POSA374 Lingual Adaption of a Questionnaire Assessing Risk Factors Associated with Medication-Related Non-Adherence: The Chinese Adherence Barriers Questionnaire (ABQ). Value in Health, 25(1).
- Kalkowsky, F., Glienke, R., Blunk, C., Dörre, M. & Henkel, K.-M. (2020). Zur Bemessung von Scher-/Lochleibungsverbindungen mit Blindnieten im Stahlbau. Stahlbau, 89(4), 304–325.
- Kalkowsky, F., Glienke, R., Blunk, C., Dörre, M. & Henkel, K.-M. (2021). Experimental investigations on the design and execution of shear loaded blind rivet joints in steel lightweight construction. ce/papers, 4(2-4), 908–916. <https://doi.org/10.1002/cepa.1377>
- Kalkowsky, F., Glienke, R., Blunk, C., Dörre, M. & Henkel, K.-M. (2021). Extension of the application limits of blind fasteners for joining high-strength steels in metal lightweight construction. ce/papers, 4(2-4), 917–923. <https://doi.org/10.1002/cepa.1378>
- Kalkowsky, F., Glienke, R., Dörre, M. & Henkel, K.-M. (2021). Möglichkeit zum Nachweis der Ermüdungsfestigkeit mit Nennspannungen auf Basis des Eurocode 3 und aktueller FKM-Richtlinie für nichtgeschweißte Bauteile. In Conference Paper.
- Kalkowsky, F., Glienke, R., Schwerdt, D., Dörre, M. & Henkel, K.-M. (2021). Nachweis der Ermüdungsfestigkeit mit Nennspannungen auf Basis des Eurocode 3 mit modifizierten und nach FKM-Richtlinie validierten Wöhlerlinien für ungeschweißte Bauteile und deren Verbindungen im Stahlleichtbau. In DVS Congress 2021.
- Kalkowsky, F., Glienke, R., Dörre, M. & Henkel, K.-M. (2022). Experimental investigations on joints with blind rivets to extend the design rules according to EUROCODE 3 for lightweight steel structures made of high-strength steels. In ISOPE 2022.
- Kalkowsky, F., Glienke, R., Blunk, C., Dörre, M. & Henkel, K.-M. (2022). Experimental investigations on joints with blind rivets to extend the design rules according to EUROCODE 3 for lightweight steel structures made of high-strength steels. In ISOPE 2022.
- Kasdorf, R. (2023). Aufbrechen stereotyper Darstellungen: Eine kommunikations- und medienwissenschaftliche Inhaltsanalyse psychischer Erkrankungen in digitalen Spielen. In F. Stolzenburg, C. Reinboth, T. Lohr & K. Vogel (Hrsg.), Harzer Hochschultexte: Nr. 14, NWK 2023 - Tagungsband zur 23. Nachwuchsschärfenkonferenz: Hochschule Harz 31. Mai und 1. Juni 2023 (S. 332–341). Hochschule Harz.
- Kasdorf, R. (2023). Representation of mental illness in video games beyond stigmatization. Frontiers in Human Dynamics, 5, Artikel 1155821. <https://doi.org/10.3389/fnhum.2023.1155821>
- Kiel, H., Lunk, S. & Oetker, H. (Hrsg.). (202

- Klein, M. & Gerlitz, L. (2021). Creative Industries in a Pandemic: Cross Sectoral Innovation. *European Research Studies*, XXIV(Special 3), 758–766. <https://ersj.eu/journal/2508>
- Klein, M., Gerlitz, L. & Spychaliska-Wojtkiewicz, M. (2021). Cultural and creative industries as boost for innovation and sustainable development of companies in cross innovation process. *Procedia Computer Science*, 192, 4218–4226. <https://doi.org/10.1016/j.procs.2021.09.198>
- Klein, M., Gutowski, P., Gerlitz, L. & Gutowska, E. (2021). Creative and Culture Industry in Baltic Sea Region Condition and Future. *Sustainability*, 13(8), 4239. <https://doi.org/10.3390/su13084239>
- Kloba, S., Ahrens, A., Lange, C., Müller, I., Leitert, P. & Zascerinska, J. (2021). Resource Allocation in Correlated and Non-Correlated MIMO Systems. In *Signal Processing Symposium*.
- Knapp, R., Hardtstock, F [F.], Maywald, U [U.] & Wilke, T [T.] (2020). PCN76 Evaluating Trends In Direct Healthcare Costs In The Last Year Of Life Among Patients With Lung Cancer In Germany. *Value in Health*, 23, S435. <https://doi.org/10.1016/j.jval.2020.08.213>
- Knapp, R. K., Hardtstock, F [F.], Wilke, T [T.], Maywald, U [U.], Deiters, B [B.], Schneider, S. & et al. (2021). Evaluating the Economic Burden of Relapses in Neuromyelitis Optica Spectrum Disorder: A Real-World Analysis Using German Claims Data. *Neurol Ther. Vorab-Onlinepublikation*. <https://doi.org/10.1007/s40120-021-00272-1>
- Knapp, R., Hardtstock, F [F.], Krieger, J., Wilke, T [T.], Maywald, U [U.], Chognat, C. & et al. (2022). Serious infections in patients with relapsing and progressive forms of multiple sclerosis: A German claims data study. *Mult Scler Relat Disord*, 68, 104245. <https://www.ncbi.nlm.nih.gov/pmc/articles/36306609/>
- Kocaata, Z., Müller, S [S.], Maywald, U [U.] & Wilke, T [T.] (2020). PCN11 Non-Adherence To Oral Treatments In Patients With Multiple Myeloma: Real-World Evidence From A German Claims Data. *Value in Health*, 23, S422. <https://doi.org/10.1016/j.jval.2020.08.148>
- Koch, T., Filser, J., Sakka, Y., Thöming, J., Siol, A., Köser, J., Larek, R., Mesing, S., Lang, I., Gavalás-Olea, A. & Gläbe, R. (2020). Algae-Based Bio Lubricant Additives: Extraction, Application and Technical Properties - from the Algae to the Technical Product. In A. Fatemimoghari (Hrsg.), *Tribology - industrial and automotive lubrication: 22nd International Colloquium Tribology*, 28-30 January 2020 (S. 311). TAE.
- Koppe, B. (2018). Seaports and climate change - Impacts and adaptation options. *Revue Paralia*, 11, s03.1-s03.12. <https://doi.org/10.5150/revue-paralia.2018.s03>
- Koppe, B. (2020). Climate Change Adaptation Planning for Ports and Inland Waterways: PIANC EnviCom Working Group Report No. 178. PIANC - The World Association for Waterborne Transport Infrastructure.
- Koppe, B. (2023). Klassifizierung, Einsatzbereiche und Planungsgrundlagen von mobilen Hochwasserschutzsystemen. *Wasser und Abfall*(9).
- Koppe, B. & Lankenau, L. (2023). Klimawandelanpassung von See- und Binnenhäfen in Deutschland: Erste Erkenntnisse der AG KlimaHafen. Tagungsband des HTG-Kongresses 2023 in Bremen, Hafentechnische Gesellschaft HTG Hamburg.
- Kosa, F., Nair, S., He, J., Lin, X., Di Scala, L., Lehne, M. & et al. (2023). P457 Treatment duration of ustekinumab in patients with Crohn's disease (CD) and psoriasis (PSO) – real-world evidence from German claims data. *J Crohns Colitis*, 17(Supplement 1), i585-i586. https://academic.oup.com/ecco-jcc/article/17/Supplement_1/i585/7009979
- Krieger, J., Hardtstock, F [F.], Wilke, T [T.] & Maywald, U [U.] (2022). Evaluating the Impact of the COVID-19 Pandemic on Mortality after Myocardial Infarctions Hospitalization in Germany. *Value in Health*, 25(1).
- Krüger, F. (2022). Keynote: Adventures in Annotation: Providing High Quality Labels for Supervised Machine Learning. In 2022 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops) (S. 254). IEEE. <https://doi.org/10.1109/percomworkshops53856.2022.9767387>
- Krüger, C., Krüger, F. & Spors, S. (2022). Automatic Classification of Cavitation States using Hydroacoustic Measurements. In German Annual Conference on Acoustics (DAGA).
- Krüger, F. & Schindler, D. (2020). A Literature Review on Methods for the Extraction of Usage Statements of Software and Data. *Computing in Science & Engineering*, 22(1), 26–38. <https://doi.org/10.1109/mcse.2019.2943847>
- Krüger, F., Waltemath, D., Ludwig, R., Schröder, M., Henny-Krahmer, U., Spors, S., Scheel, S., Schneider, R., Novak, J., Schmidt, S., Schick, S., Yordanova, K., Al-Suadi, S., Becker, M., Beelich, H., Bläsing, D., Brock, C., Bruder, I., Budde-Sagert, K., ... Zieliński, O. Bedarfsermittlung für die FDM-Landesinitiative in Mecklenburg-Vorpommern. Zenodo. <https://zenodo.org/records/10798387> <https://doi.org/10.5281/zenodo.10798387>
- Krzos, G., Piwonni-Krzeszowska, E., Kowalski, J. & Praise, G. (2023). Use of hydrogen and AI as opportunities to increase energy autarky and create business more sustainable. *Procedia Computer Science*, 225, 3276–3285. <https://doi.org/10.1016/j.procs.2023.10.321>
- Kudryavtseva, T. Y., Kozhina, K. S., Praise, G. & Olaniyi, E. O. (2023). Assessment of Economic Efficiency, Effects and Risks of Digitalization Projects of Garment Industry in Russia. *Journal of Applied Economic Research*, 22(1), 72–98. <https://doi.org/10.15826/hestnik.2023.22.1.004>
- Kufs, J. E., Reimer, C., Steyer, E., Valiante, V., Hillmann, F [F.] & Regestein, L. (2022). Scale-up of an amoeba-based process for the production of the cannabinoid precursor olivetolic acid. *Microb Cell Fact*, 21(1), 217. <https://doi.org/10.1186/s12934-022-01943-w>
- Kühne, D., Hollas, L., Denkert, C., Dörre, M., Glienke, R., Kästner, M. & Fiedler, M. (2022). Entwicklung eines Strukturspannungskonzeptes für umformtechnisch gefügte Funktionslementverbindungen. In DMK 2022 - Dresdner Maschinenelemente Konferenz.
- Kunert, G., Pawletta, T [T.] & Hartmann, S. (2020). Reduction of Complexity in Q-Learning a Robot Control for an Assembly Cell by using Multiple Agents. In 25. (Virtual) ASIM Symposium Simulationstechnik (SST) (S. 129–136). ARGESIM Report 59. <https://doi.org/10.11128/arep.59.a559018>
- Kunert, G., Pawletta, T [T.] & Hartmann, S. (2020). Reduction of Complexity in Q-Learning a Robot Control for an Assembly Cell by using Multiple Agents. *SNE - Simulation Notes Europe Journal*, 30(3), 117–124. <https://doi.org/10.11128/sne.30.tn.10524>
- Laar, C. von [Claudia], Baar, C., Plärre, R. & McMahon, D. P. (2021). Genetic relationships of local infestations by Anobium punctatum and Xestobium rufovillosum and their associated predator Korynetes caeruleus from buildings in Mecklenburg-Western Pomerania (Germany). In IRG/WP 21-10980. International Research Group on Wood Protection, IRG 52, Webinar.
- Lange, C. & Ahrens, A. (2021). Power and Energy Efficiency Optimization of Baseband Transmission Links. In *Signal Processing Symposium*.
- Lange, C. & Ahrens, A. (2022). Improving Power and Energy Efficiency of Linearly Equalized Baseband Cable Transmission Links. In *International Conference on Sensor Networks (Sensorsnets)*.
- Lange, C. & Ahrens, A. (2022). Power and Energy Efficiency of Multilevel Baseband Transmission Systems: Analysis, Optimization and Improvements. *Journal of Communications*, 17(12), 961–971.
- Lankenau, L., Massolle, C., Koppe, B. & Krull, V. (2020). Sandbag replacement systems – a nonsensical and costly alternative to sandbagging? *Natural Hazards and Earth System Sciences*, 20(1), 197–220. <https://doi.org/10.5194/nhess-20-197-2020>
- Larek, R., Wagner, J. C., Hein, P. & Folkerts, H. (2024). Digitalisation Of Process Knowledge And Automated Decision Making In Production Steering - Recent Advances Of The Maximal Network Plan. Hannover : publish-Ing. <https://doi.org/10.15488/17703>
- Latz, K., Bittermann, T., Klinner, H. & Völkel, S. (2022). Flüssigkeitstiliger zum Tilgen und Dämpfen von Schwingungen an Bauwerken(WO 2023/025780). EU.
- Lehne, M., Kortüm, K. M., Ramasamy, K., Zamagni, E., d'Estrubé, T., Zhuleku, E [E.], Hanna, M., Shukla, S., Ghiani, M., Maywald, U [U.], Wilke, T [T.], Kellermann, L. & Perera, S. (2022). Real-World Treatment Patterns of Patients Initiating Third-Line Therapy in Relapsed or Refractory Multiple Myeloma in Europe. *Blood*, 140, 12485–12486.
- Lehne, M., Kortüm, K. M., Ramasamy, K., Zamagni, E., d'Estrubé, T., Zhuleku, E [E.] & et al. (2024). Real-world treatment patterns in patients initiating third-line therapy for relapsed or refractory multiple myeloma in Germany, Italy, the United Kingdom, France, and Spain. *Eur J Haematol*, 112(5), 701–713. <https://doi.org/10.1111/ejh.13853>
- Leshchenko, A., Zascerinska, J. & Ahrens, A. (2021). Students' Evaluation of Online Tools for University Studies in Germany and Ukraine in Light of COVID-19. In 10th International Scientific Conference "Perspectives of Economic of Kaliningrad Region and EU Development".
- Leshchenko, A., Zascerinska, J. & Ahrens, A. (2021). Students' Evaluation of Online Tools for University Studies in Germany and Ukraine in Light of COVID-19. In 10th International Scientific Conference "Perspectives of Economic of Kaliningrad Region and EU Development".
- Linke, C. (2018). Held*innen ... dringend gesucht! Ungleiche Geschlechterverhältnisse in Film und Fernsehen. *Medien Concret*(1).
- Linke, C. (2019). Lucy's Lust als Pop-Porno. In P. Rössler (Vorsitz), *Es kommt die neue Frau! Visualisierungen von Weiblichkeit in Printmedien des 20. Jahrhunderts – ein Bildatlas*.
- Linke, C. (2019). Zwischen Intimität und Isolation: Der Wandel interpersonaler Kommunikation und sozialer Beziehungen in Zeiten digitaler Medien. In C. Linke & I. Schlote (Hrsg.), *Soziales Medienhandeln: Integrative Perspektiven auf den Wandel mediatisierter interpersonaler Kommunikation : Festschrift für Joachim R. Höflöck* (S. 83–99). Springer VS.
- Linke, C., Görland, S. & Loist, S. (2018). Wissenschaftskommunikation auf Twitter: Lesarten zum Diskurs um #Tim Hunt und #distractinglysexy Frauen in wissenschaftlichen Laboren. In L. Hagen, C. Lüthje, F. Ohser & C. Seifert (Hrsg.), *Forschungsfeld Wissenschaftskommunikation*: Bd. 1. Wissenschaftskommunikation: Die Rolle der Disziplinen (1. Auflage, S. 213–228). Nomos Verlagsgesellschaft mbH & Co. KG.
- Linke, C. & Kasdorf, R. (2023). Audiovisuelle Repräsentation geschlechtsspezifischer Gewalt: Theoretische Überlegungen und empirische Befunde. In E. Grittmann, K. F. Müller, C. Peil & J. Pinseler (Hrsg.), *Medien und Ungleichheiten: (Trans-)nationale Perspektiven auf Geschlecht, Diversität und Identität* (S. 1–12). Deutsche Gesellschaft für Publizistik- und Kommunikationswissenschaft e.V.
- Linke, C., Kasdorf, R. & Wiering, M. (2022). Chronische Erkrankungen in audiovisuellen und sozialen Medien: Eine qualitative Medieninhaltsanalyse der Repräsentation lang andauernder Krankheiten. In D. Reifegerste, N. Ströbele-Benschop, M. Schäfer & J. Vogelgesang (Hrsg.), *Gesundheitskommunikation in Zeiten der COVID-19-Pandemie* (S. 1–14). SSOAR - GESIS Leibniz Institute for the Social Sciences.
- Linke, C. & Prommer, E. (2021). From fade-out into spotlight: An audio-visual character analysis (ACIS) on the diversity of media representation and production culture. *Studies in Communication Sciences*, 1–17. <https://doi.org/10.24434/j.scoms.2021.01.010>
- Linke, C. & Schlote, I. (Hrsg.). (2019). *Soziales Medienhandeln: Integrative Perspektiven auf den Wandel mediatisierter interpersonaler Kommunikation : Festschrift für Joachim R. Höflöck*. Springer VS. <https://ebookcentral.proquest.com/lib/kxp/detail.action?docID=5978027>
- Deutsche Lichttechnische Gesellschaft e.V. (Hrsg.) (2021). *Licht 2021: 21.-24.03.*, online : Tagungsband zum 24. Europäischen Lichtkongress. Deutsche Lichttechnische Gesellschaft e.V. (LTG).
- Liu, C., Eschen, W., Loetgering, L., Penagos Molina, D. S., Klas, R., Iliou, A., Steinert, M., Herkersdorf, S., Kirsche, A., Pertsch, T., Hillmann, F [F.], Limpert, J. & Rothhardt, J. (2023). Visualizing the Ultra-Structure of Microorganisms Using Table-Top Extreme Ultraviolet Imaging. *PhotonIX*, 4(1).
- Lorenz, M [M.], Drobek, C., Schwerdt, D., Bader, R. & Seitz, H. (2021). Design and 3D-printing of a rinsing chamber for hydrostatic high-pressure treated allogeneic tissues. *Transactions on Additive Manufacturing Meets Medicine*, 3(1). <https://doi.org/10.18416/AMMM.2021.2109522>
- Lorenz, M [M.], Heidemann, J., Salih, M. & Schwerdt, D. (2022). Application of sound measurements for quality control of wires during the production of technical springs. In International conference on steels in cars and trucks.
- Lorenz, M [M.], Heidemann, J. & Schwerdt, D. (2023). In situ Prozesskontrolle zur Detektion von Rissentstehung und -wachstum beim Federnwinden an höchstfesten Federhaldrädern mittels akustischer Emission. In Ilmenauer Federntag 2023.
- Lorenz, M [M.], Poosch, F., Meyer, M., Strüder, D., Bader, R. & Schwerdt, D. (2021). Ultrasonic treatment for decellularisation of cartilage and dura mater.
- Lorenz, M [M.], Salih, M., Schwerdt, D., Al-Hamday, N., Maawad, E., Schell, N. & Müller, E. (2023). Three-Point Bending Test and Crack Detection by Acoustic Emission on Different Spring Steel Wires with Different Crystallographic Textures. *Journal of Materials Science and Engineering A*, 13(7-9), 53–67. <https://doi.org/10.17265/2161-6213/2023.7-9.001>
- Lorenz, M [M.], Schimmelpfennig, T.-M. & Schwerdt, D. (2020). Prototype of a high dynamic precise axis system based on flexure hinges for the micro positioning of an electrode in the near dry EDM process. In EUSPEN - 20th International Conference & Exhibition.
- Lorenz, M [M.] & Schwerdt, D. (2024). Hydrogen-induced cracking - Differentiation between damage mechanisms in high-strength spring steel wires using acoustic emission. In 5th International Conference On Materials Science & Engineering.
- Lorenz, M [M.] & Schwerdt, D. (2024). In-situ-Rissdetektion mittels akustischer Emission an höchstfesten Stahldrähten. *Fachzeitschrift Draht/Wire*(o1).
- Lorenz, M [M.] & Schwerdt, D. (2021). Vibrational laser spectroscopy - Initial study on in-situ raman as a promising non-destructive and non-contact measurement tool to control decellularization processes of allogeneic tissues. In BMT 2021.
- Lorenz, M [M.], W-Hellwig, J., Schwerdt, D., J-Heincke, A. & Bader, R. (2022). Raman – linear vibrational spectroscopy as a tool to monitor decellularisation processes of devitalised allogeneic tissues in-line: A pilot study. In Euspen conference.
- Lorenz, M [M.], Waletzko-Hellwig, J., Schwerdt, D., Jonitz-Heincke, A. & Bader, R. (2022). Raman – linear vibrational spectroscopy as a tool to monitor decellularisation processes of devitalised allogeneic tissues in-line: A pilot study. In Euspen conference.
- Lorenz, M [M.], Waletzko-Hellwig, J., Schwerdt, D., Jonitz-Heincke, A., Bader, R., Seitz, H. & Hornberger, C. (2022). Raman – linear vibrational spectroscopy as a tool to monitor decellularisation processes of devitalised allogeneic tissues in-line: A pilot study. In euspen's 22nd International Conference & Exhibition.
- Ludwig, M. & Falbe, D. (2024). Kirchen mit Schalendächern von Ulrich Müther. In K. Berkemann (Vorsitz), *Kirchen für neue Städte: Religiöses Bauen der Spät- und Postmoderne in der DDR*.
- Ludwig, M., Hack, A. & Both, K. (2008). Die REH: Geschichte und technische Details der transportablen Raum erweiterungshalle ; [Ausstellung: Plan o8: Forum für aktuelle Architektur in Köln, 19.09 - 26.09.2008. Hochsch. Fak. Gestaltung].
- Ludwig, M., Liess, J., Fromm, A., Schätzke, A. & Diebermann, A. (2018). Der Teepott in Rostock-Warnemünde (1. Auflage). Historische Wahrzeichen der Ingenieurbaukunst in Deutschland: Band 23. BlngK Bundesingenieurkammer.
- Ludwig, M. & Oestreich, J. (2021). Das Müther-Archiv an der Hochschule Wismar: Auf dem Wege zur regionalen Sammlung für Architektur und Ingenieurbau in Mecklenburg-Vorpommern. *KulturERBE in Mecklenburg und Vorpommern*, 2020(11), 9–18.
- Ludwig, M. & Oestreich, J. (2023). Ein weiterer Schritt zur Sicherung der Ostmoderne in der Region: Der Aufbau einer regionalen Architektursammlung für Mecklenburg-Vorpommern und die Raum erweiterungshalle REH in Bußmann. In F. Bußmann & D. Kopka (Hrsg.), *Aurora. Chemnitzer Schriften zu Kunst und Kultur: Band 3, Matrix Moderne/Ostmoderne: Bauen, baubegogene Kunst und Formgestaltung in Ostdeutschland und dem Europa der Nachkriegszeit* (Sonderdruck der Kunstsammlungen Chemnitz). Kunstsammlungen Chemnitz.
- Lüley, M. & Oberfrancová, L. (2019). Adaptabilita v architektúre vo vzťahu k životnému cyklu budovy. In *Architecture in Perspective 2019: Proceedings of the International Conference. Symposium* im Rahmen der Tagung von Technická univerzita Ostrava.
- Luna, J., Picker, N [N.], Hahn, P., Wilke, T [T.] & Maywald, U [U.] (2022). P35 Real-World Evidence of Incidence, Initial Treatment, and Survival of Female Breast Cancer in Germany. *Value in Health*, 25(12), S8-S9.
- Luna, J., Picker, N [N.], Wilke, T [T.], Lutz, M., Hess, J., Mörtl, B. & et al. (2024). Real-world evidence of treatment patterns and survival of metastatic gastric cancer patients in Germany. *BMC Cancer*, 24(1), 462. <https://doi.org/10.1186/s12885-024-10955-9>
- Luther, W., Auer, E. & Weyers, B. (2020). Reliable Visual Analytics, a Prerequisite for Outcome Assessment of Engineering Systems. *Acta Cybernetica*, 24(3), 287–314. <https://doi.org/10.14232/actacyb.24.3.2020.3>
- Luther, W., Auer, E., Sacher, D. & Balolian, N. (2022). Feature-oriented Digital Twins for Life Cycle Phases Using the Example of Reliable Museum Analytics. In 8th International Symposium on Reliability Engineering and Risk Management. [https://www.semanticscholar.org/paper/Feature-oriented-Digital-Twins-for-Life-Cycle-Using-Luther-Auer/ac3b9d414ecbb26e2b25348d1474](https://www.semanticscholar.org/paper/Feature-oriented-Digital-Twins-for-Life-Cycle-Using-Luther-Auer/ac3b9d414ecbb26e2b25348d14749180a6747a81e)

- Massolle, C., Lankenau, L., Koppe, B. & Schlurmann, T. (2019). Operativer Hochwasserschutz. Wasser und Abfall, 21(9), 18–26. <https://doi.org/10.1007/s35152-019-0120-1>
- Matela, J. (2024). Introduction to scientific metadata. <https://doi.org/10.5281/ZENODO.10869366>
- Melnikova, J [J.J.], Batuchina, A., Zascerinska, J. & Ahrens, A. (2023). Learning Experience Platforms in German and Lithuanian K12 Schools: Case Study Analysis. In IEEE International Interdisciplinary PhD Workshop (IIPhDW).
- Melnikova, J [J.J.], Batuchina, A., Ahrens, A. & Zascerinska, J. (2023). Teachers' Data Literacy Skills for Pedagogical Decision Making: Needs Analysis in Lithuania and Germany. In Proceedings of the 14th International Scientific and Practical Conference.
- Mesecke, K., Malorny, W. & Warr, L. N [L.N.] (2020). In situ monitoring of hydrothermal reactions by X-ray diffraction with Bragg–Brentano geometry. Journal of applied crystallography, 53(4), 1163–1166.
- Mesecke, K., Malorny, W. & Warr, L. N [Laurence N.] (2023). Understanding the effect of sulfate ions on the hydrothermal curing of autoclaved aerated concrete (Cement and Concrete Research Nr. 164).
- Mesecke, K., Warr, L. N [Laurence N.] & Malorny, W. (2022). Structure modeling and quantitative X-ray diffraction of C-(A)-S-H. Journal of applied crystallography, 55(Pt 1), 133–143. <https://doi.org/10.1107/S1600576721012668>
- Mevius, A., Joeres, L., Gille, P., Molzan, M., Foskett, N., Wilke, T [T.] & et al. (2023). Epidemiology, real-world treatment and mortality of patients with status epilepticus in Germany: insights from a large healthcare database. Brain Commun, 5(3). <https://doi.org/10.1093/braincomms/fcad044>
- Mevius, A., Jöres, L., Biskup, J., Heidbrede, T., Mahic, M., Wilke, T [T.] & et al. (2023). Epidemiology and treatment of myasthenia gravis: a retrospective study using a large insurance claims dataset in Germany. Neuromuscular Disorders, 33(4), 324–333. <https://doi.org/10.1016/j.nmd.2023.02.002>
- Mevius, A., Link, T., Welte, R [R.], Wacker, M., Wilke, T [T.] & Karl, F. (2021). Post-platinum treatment landscape in patients with recurrent endometrial cancer: analysis of German claims data. International Journal of Gynecologic Cancer, 31, A72–A73.
- Mevius, A., Müller, S [S.], Wilke, T [T.] & Maywald, U [U.] (2020). PCN335 The Impact Of Guideline Adherence On Survival In Early Breast Cancer Patients. Value in Health, 23, S482. <https://doi.org/10.1016/j.jval.2020.08.472>
- Mevius, A., Müller, S [S.], Wilke, T [T.] & Maywald, U [U.] (2022). EPH144 The Impact of COVID-19 Pandemic on the Detection and Management of Cancer: A German Claims Data Analysis. Value in Health, 25(12).
- Meyer, C. (2021). Integration of Baltic Small and Medium-Sized Ports in Regional Innovation Strategies on Smart Specialisation (RIS3). Journal of Open Innovation: Technology, Market, and Complexity, 7(3), 184. <https://doi.org/10.3390/joitmc7030184>
- Meyer, C. (2021). Transnational RIS3 Observatory Model for Smart Specialisation Monitoring On Regional, National And European Level. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 195, Reliability and Statistics in Transportation and Communication: Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat2020, 14–17 October 2020, Riga, Latvia (1st ed. 2021). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-030-68476-1_69
- Meyer, C. (2022). Social Innovation Governance in Smart Specialisation Policies and Strategies Heading towards Sustainability: A Pathway to RIS4? Social Sciences, 11(4), 150. <https://doi.org/10.3390/socsci11040150>
- Meyer, C., Gerlitz, L., Philipp, R. & Paulauskas, V. (2021). A Digital or Sustainable Small and Medium-Sized Port? Sustainable Port Blueprint in the Baltic Sea Region Based on Port Benchmarking. Transport and Telecommunication Journal, 22(3), 332–342. <https://doi.org/10.2478/ttj-2021-0026>
- Meyer, C., Gerlitz, L. & Henesey, L. (2021). Cross-Border Capacity-Building for Port Ecosystems in Small and Medium-Sized Baltic Ports. TalTech Journal of European Studies, 11(1), 113–132. <https://doi.org/10.2478/bjes-2021-0008>
- Meyer, C., Gerlitz, L. & Klein, M. (2022). Creativity as a Key Constituent for Smart Specialization Strategies (S3), What Is in It for Peripheral Regions? Co-creating Sustainable and Resilient Tourism with Cultural and Creative Industries. Sustainability, 14(6), 3469. <https://doi.org/10.3390/su14063469>
- Meyer, C., Gerlitz, L. & Praise, G. (2023). Small and Medium-Sized Port Greening Initiatives as Trigger for a Servitisation Port Ecosystem. Environmental and Climate Technologies, 27(1), 476–488. <https://doi.org/10.2478/rtuect-2023-0035>
- Meyer, C., Gerlitz, L. & Praise, G. (2024). Smart City and Smart Port Concepts: A Conceptualisation for Digital Small and Medium-Sized Port-City Innovation Ecosystems. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 913, Reliability and Statistics in Transportation and Communication: Selected Papers from the 23rd International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication: Digital Twins - From Development to Application, RelStat2023, October 19–21, 2023, Riga, Latvia (1st ed. 2024, S. 41–53). Springer Nature Switzerland; Imprint Springer. https://doi.org/10.1007/978-3-031-53598-7_4
- Meyer, C., Howe, T. O., Stollberg, C. & Gerlitz, L. (2021). Cross-Border Cooperation Concept in Multifunctional Agriculture under RIS3. Environmental and Climate Technologies, 25(1), 537–550. <https://doi.org/10.2478/rtuect-2021-0039>
- Meyer, C., Philipp, R. & Gerlitz, L. (2021). Reinforcing Innovation and Competitiveness of SMEs by New Maritime Clustering Initiatives in South Baltic Sea Region. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 195, Reliability and Statistics in Transportation and Communication: Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat2020, 14–17 October 2020, Riga, Latvia (1st ed. 2021, S. 633–648). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-030-68476-1_59
- Mittelstand 4.0-Kompetenzzentrum Rostock. (2020). Leitfaden Smart Hotel: Innovationen im Hotelbetrieb : intelligente digitale Lösungen im Tourismus (2. Auflage, Stand Februar 2020). callidus. Verlag wissenschaftlicher Publikationen.
- Moldabekova, A. T., Philipp, R., Reimers, H.-E. & Alikozhayev, B. (2021). Digital Technologies for Improving Logistics Performance of Countries. Transport and Telecommunication, 22(2), 207–216. <https://doi.org/10.2478/ttj-2021-0016>
- Moldabekova, A. T., Philipp, R., Satybaldin, A. A. & Praise, G. (2021). Technological readiness and innovation as drivers for Logistics 4.0. Journal of Asian finance, economics and business : JAFeB, 8(1). <https://www.koreascience.kr/article/JAKO202100569389283.pdf>
- Molotov, M., Philipp, R. & Praise, G. (2022). Russian River Shipping: Evolution and Perspectives. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 410, Reliability and Statistics in Transportation and Communication: Selected Papers from the 21st International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication, RelStat2021, 14–15 October 2021, Riga, Latvia (1st ed. 2022, S. 259–269). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-030-96196-1_23
- Müller, S [S.], Heidler, T., Fuchs, A [A.], Pfaff, A., Ernst, K., Ladinek, G. & et al. (2020). Real-World Treatment of Patients with Multiple Sclerosis per MS Subtype and Associated Healthcare Resource Use: An Analysis Based on 13,333 Patients in Germany. Neurol Ther, 9(1), 67–83. <https://doi.org/10.1007/s40120-019-00172-5>
- Müller, S [S.], Junker, S., Wilke, T [T.], Lommatsch, A., Schuster, A. K., Kaymak, H. & et al. (2021). Questionnaire for the assessment of adherence barriers of intravitreal therapy: the ABQ-IVT. Int J Retina Vitreous, 7(1), 43. <https://doi.org/10.1186/s40942-021-00311-0>
- Müller, S [Sabrina], Maywald, U [Ulf], Timmermann, H [Hartmut], Unmüßig, V [Victoria], Welte, R [Robert], Hardtstock, F [Fränce] & Wilke, T [Thomas] (2021). Identifying the Causes Increasing the Risk of Non-Adherence in Adult Patients with Asthma: An Analysis Combining Patient Survey Data with German Claims Data. Drugs Real World Outcomes, 8(2), 207–214. <https://doi.org/10.1007/s40801-021-00236-9>
- Müller, S [S.], Ziemssen, T [T.], Diehm, C., Duncker, T., Hoffmanns, P., Thate-Waschke, I. M. & et al. (2020). How to Implement Adherence-Promoting Programs in Clinical Practice? A Discrete Choice Experiment on Physicians' Preferences. Patient Prefer Adherence, 14, 267–276. <https://doi.org/10.2147/PPA.S239204>
- Müller-Demuth, R. (2021). Vorrangung zur Reduktion von Rammsschall(DE 10 2019 005 311 A1). Deutschland.
- Münster, M., Kopp, G., Friedrich, H. E. & Grienitz, V. (2024). Moderne Fahrzeug- und Bauweisenkonzepte für die Transformation des Automobils. In H. E. Friedrich & G. Müller (Hrsg.), Werkstoffe und Bauweisen in der Fahrzeugtechnik. ATZ/MTZ-Fachbuch. Werkstoffsysteme mit Zukunft. Springer Vieweg. https://doi.org/10.1007/978-3-662-65269-5_9
- Muros-Le Rouzic, E., Ghiani, M., Zhuleku, E [Evi], Dillenseger, A., Maywald, U [U.], Wilke, T [Thomas], Ziemssen, T [Talf] & Craveiro, L. (2023). Claims-based algorithm to estimate the Expanded Disability Status Scale for multiple sclerosis in a German health insurance fund: a validation study using patient medical records. Frontiers in neurology, 14, 1253557. <https://doi.org/10.3389/fneur.2023.1253557>
- Mzoughi, M., Thiem, D. & Hornberger, C. (2022). Blood vessel detection using hyperspectral imaging. Current Directions in Biomedical Engineering, 8(2), 715–718. <https://doi.org/10.1515/cdbme-2022-1182>
- Nägele, C., Kersh, N. & Stalder, B. E. (Hrsg.). (2021). Trends in Vocational Education and Training Research: 4 Proceedings of the European Conference on Educational Research (VETNET) (I).
- Niegisch, G., Grimm, M. O., Hardtstock, F [F.], Krieger, J., Starry, A., Osowski, U. & et al. (2023). Treatment patterns, indicators of receiving systemic treatment, and clinical outcomes in metastatic urothelial carcinoma: A retrospective analysis of real-world data in Germany. Journal of Clinical Oncology, 41(6__suppl), 464. https://doi.org/10.1200/JCO.2023.41.6_suppl.464
- Niegisch, G., Grimm, M. O., Hardtstock, F [F.], Krieger, J., Starry, A., Osowski, U. & et al. (2024). Treatment patterns and clinical outcomes in metastatic urothelial carcinoma: a German retrospective real-world analysis. Future Oncology, 20(19), 1351–1366.
- Niehaves, C., Spengler, F. & Hornberger, C. (2022). Tissue-simulating phantom for routine check of hyperspectral imaging systems. In Abstracts of the 2022 Joint Annual Conference of the Austrian (ÖGBMT), German (VDE DGBMT) and Swiss (SSBE) Societies for Biomedical Engineering.
- Niemann, B. (Hrsg.). (2019). Resilient urban waterfront. Verlag University Wismar.
- Niemann, B. (2018). Branding the Urban Waterfront: Urbanity and Images of cities. International Journal on the Image, 9(1).
- Niemann, B. (2019). Urban Waterfront Renewing in North America, Europe and Australia. In B. Niemann (Hrsg.), Resilient urban waterfront (S. 17–40). Verlag University Wismar.
- Oberfrancová, L. & Špařek, R. (2019). Critical thinking in teaching sustainable architecture. World Transactions on Engineering and Technology Education (WTE&TE), 17(2), 127–133.
- Oberfrancová, L. & Špařek, R. (2020). Educating architects: An optimistic vision for building sustainability evaluation. World Transactions on Engineering and Technology Education, 18(4), 462–467. [http://www.wiete.com.au/journals/WTE&TE/Pages/Vol.18,%20No.4%20\(2020\)/16-Spacek-R.pdf](http://www.wiete.com.au/journals/WTE&TE/Pages/Vol.18,%20No.4%20(2020)/16-Spacek-R.pdf)
- Oberfrancová, L. & Wollensak, M. (Hrsg.). (2015). Life time design of building in urban areas: Methods, instruments and process of sustainable building design in architecture (N. Gill-May & S. Bailey, Übers.). Callidus Verlag.
- Oberfrancová, L. & Wollensak, M. (2021). Architectural design quality and social sustainability in building certification systems. Architecture Papers of the Faculty of Architecture and Design STU, 26(3), 13–23. <https://doi.org/10.2478/alfa-2021-0015>
- Oberfrancová, L., Wollensak, M. & Philipp, L.-M. (2018). Dreifach-Null-Standard Kindertagesstätte „Wildblume“. Energie Kompakt(2), 24–25.
- Ochs, A. & Oechtering, A. (2022). Bioabfälle. In P. Kurth (Hrsg.), Praxishandbuch der Kreislauf- und Rohstoffwirtschaft (2nd ed., S. 471–488). Springer Fachmedien Wiesbaden GmbH.
- Olaniyi, E. O. & Praise, G. (2021). Maritime Investment Appraisal: The Case of Waste Heat Recovery Systems Installation. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), Lecture Notes in Networks and Systems: Bd. 195, Reliability and Statistics in Transportation and Communication: Selected Papers from the 20th International Conference on Reliability and Statistics in Transportation and Communication, RelStat2020, 14–17 October 2020, Riga, Latvia (1st ed. 2021, S. 603–612). Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-030-68476-1_56
- Olaniyi, E. O., Praise, G., Gerasimova, V. & Inkkinen, T. (2022). Clean Cruise Shipping: Experience from the BSR. Sustainability, 14(9), 5002. <https://doi.org/10.3390/su14095002>
- Ollár, A., Femenias, P., Rahe, U. & Granath, K. (2020). Foresights from the Swedish Kitchen: Four Circular Value Opportunities for the Built Environment. Sustainability, 12(16), 6394. <https://doi.org/10.3390/su12166394>
- Ollár, A., Granath, K., Femenias, P. & Rahe, U. (2022). Is there a need for new kitchen design? Assessing the adaptative capacity of space to enable circularity in multiresidential buildings. Frontiers of Architectural Research, 11(5), 891–916. <https://doi.org/10.1016/j.foar.2022.03.009>
- Ören, T., Zeigler, B. P., Pawletta, T [Thorsten] & Tolk, A. (2023). Preliminary Vorab-Onlinepublikation. https://doi.org/10.1007/978-3-031-11085-6_1
- Orozonova, A., Gapurbaeva, S., Kydykov, A., Prokopenko, O., Praise, G. & Lytvynenko, S. (2022). Application of smart logistics technologies in the organization of multimodal cargo delivery. Transportation Research Procedia, 63, 1192–1198. <https://doi.org/10.1016/j.trpro.2022.06.124>
- Pacis, S., Bolzani, A., Heuck, A., Gossens, K., Kruse, M., Fritz, B. & et al. (2024). Epidemiology and Real-World Treatment of Incident Diffuse Large B-cell Lymphoma (DLBCL): A German Claims Data Analysis. Oncol Ther, 12(2), 293–309. <https://doi.org/10.1007/s40487-024-00234-1>
- Pacis, S., Maywald, U [U.], Wilke, T [T.] & Ghiani, M. (2022). EPH35 Post-COVID Conditions in Hospitalized COVID-19 Patients in Germany. Value in Health, 25(12), S197–S198.
- Paetow, T. (2023). New Ways of Working and Their Impact on the Quality of Work Life. In M. Leyer (Hrsg.), ACIS 2023 Poster Slam Track Proceedings. OSF.
- Paetow, T., Wichmann, J. & Wißotzki, M. (2021). Campus-Navigation-System Design for Universities: A Method Approach for Wismar Business School. Human Centred Intelligent Systems 2021, Rom, Italien, Juni 14–16, 2021.
- Paetow, T., Wichmann, J. & Leyer, M. (2021). Why do Visitors intend to use Indoor Navigation and Indoor Localization Systems in Hospitals? A Quantitative Survey from Germany. In A. Zimmermann, R. J. Howlett, L. C. Jain & R. Schmidt (Hrsg.), Human Centred Intelligent Systems (S. 3694–3703). Springer Singapore.
- Paetow, T., Wichmann, J., Reil, H. & Leyer, M. (2022). Towards an Understanding of the Intention of University Members to Use Indoor Positioning Systems: A Unified Theory of Acceptance and Use Perspective. In P. Reuss, V. Eisenstadt, J. Schonborn & J. Schafer (Hrsg.), Proceedings of the LWDA 2022 Workshops: FGWM, FGKD, and FGDB (S. 199–212). Sun SITE Central Europe (CEUR).
- Papke, K. & Hornberger, C. (2022). On model-based hyperspectral imaging. Current Directions in Biomedical Engineering, 8(2), 789–792. <https://doi.org/10.1515/cdbme-2022-1201>
- Paulauskas, V., Philipp, R., Henesey, L., Paulauskas, D., Sutnikas, A., Meyer, C., Gerlitz, L., Heine, N. C., Kozyczkowski, K., Zicus, A. & Silonosov, A. (2021). Smart Ports' Influence on Coastal Sustainability. In (S. 396–401). Kauno Technologijos Universitetas. <http://bth.diva-portal.org/smash/record.jsf?pid=diva2%3A1635933&dswid=-7873>
- Pawletta, T [Thorsten] & Bartelt, J. (2023). Integrating Reinforcement Learning and Discrete Event Simulation Using the Concept of Experimental Frame: A Discrete Event Control Case Study With MATLAB/SimEvents. In I2PhDW + AUTSYM 2023, 3.–5. Mai 2023, HS Wismar.
- Pawletta, T [Thorsten] & Bartelt, T. (2023). Integration of Reinforcement Learning and Discrete Event Simulation Using the Concept of Experimental Frame. SNE - Simulation Notes Europe, 33(3), 101–109. <https://doi.org/10.11128/sne.33.tn.10651>
- Pawletta

- Plarre, R., Busweiler, S., Haustein, V., Laar, C. von [Claudia] & Haustein, T. (2022). *Korynetes caeruleus* (Coleoptera: Cleridae) for Biological Control of *Anobium punctatum* (Coleoptera, Ptinidae). In Proceedings of the 10th International Conference on Urban Pests (S. 34–44).
- Plarre, R., Busweiler, S., Haustein, V., Laar, C. von [Claudia] & Haustein, T. (2023). Eignung von *Korynetes caeruleus* (Coleoptera: Cleridae) zur biologischen Bekämpfung von *Anobium punctatum* (Coleoptera, Ptinidae). In S. Schönherr (Hrsg.), Tagungsband der EPOS-Sachverständigentagung: Holzschutz, Sachverständ am Bau 2023: Beiträge aus Praxis, Forschung und Weiterbildung (S. 99–115). Fraunhofer IRB Verlag.
- Plarre, R., Busweiler, S., Laar, C. von [Claudia], Haustein, V. & Haustein, T. (2023). Holzwurm Smoothie: der Energy Drink für den Blauen Fellkäfer. Pest Control News(74), 16–18.
- Prause, G. & Olaniyi, E. O. (2023). Optimizing Voyage Costs in Maritime Supply Chains: A Holistic Approach Towards Logistics Service Improvement and Supply Chain Finance. Transport and Telecommunication Journal, 24(4), 361–374. <https://doi.org/10.2478/tjt-2023-0028>
- Prause, G., Olaniyi, E. O. & Gerstlberger, W. (2023). Ammonia Production as Alternative Energy for the Baltic Sea Region. Energies, 16(4), 1831. <https://doi.org/10.3390/en16041831>
- Prause, F. & Prause, G. (2021). Inventory Routing Analysis for Maritime LNG Supply of German Ports. Transport and Telecommunication, 22(1), 67–86. <https://doi.org/10.2478/tjt-2021-0006>
- Prause, F., Prause, G. & Philipp, R. (2022). Inventory Routing for Ammonia Supply in German Ports. Energies, 15(17), 6485. <https://doi.org/10.3390/en15176485>
- Prokopenko, O., Kurbatova, T., Khalilova, M., Zerkal, A., Prause, G., Binda, J., Berdiyorov, T., Klapiv, Y., Sanetra-Pöglabi, S. & Komarnitskyi, I. (2023). Impact of Investments and R&D Costs in Renewable Energy Technologies on Companies' Profitability Indicators: Assessment and Forecast. Energies, 16(3), 1021. <https://doi.org/10.3390/en16031021>
- Prokopenko, O., Prause, G., Otenko, V., Cherkashyna, M., Kara, I. & Imanadze, I. (2023). Adaptation of logistics companies to operation under the Covid-19 pandemic restrictions. Acta logistica, 10(1), 47–60. <https://doi.org/10.22306/al.v1o1.349>
- Prommer, E., Linke, C. & Furtwängler, M. (2019). Ausgeblendet: Frauen im deutschen Film und Fernsehen. Edition Medienpraxis: Bd. 17. Herbert von Halem Verlag. <https://elibrary.utb.de/doi/book/10.1453/9783869624303>
- Prommer, E., Wegener, C. & Linke, C. (2001). Moderner Kanal – altmodische Rollenbilder: Geschlechterstereotype auf YouTube aus medienethischer Perspektive. Communicatio Socialis. Zeitschrift für Medienethik und Kommunikation in Religion und Gesellschaft(3), 341–348.
- Prommer, E., Wegener, C. & Linke, C. (2019). Geschlechterdarstellungen auf YouTube: Das enge Spektrum der YouTuberin und das weite Feld der Männer. BZgA Forum für Sexualaufklärung und Familienplanung(1).
- Prommer, E., Wegener, C. & Linke, C. (2019). Selbstermächtigung oder Normierung? Weibliche Selbstinszenierung auf YouTube. Televizion, 32(1), 11–15.
- Pyttel, B., Brunner, I., Schwerdt, D. & Berger, C. (2012). Influence of defects on fatigue strength and failure mechanisms in the VHCF-region for quenched and tempered steel and nodular cast iron. International Journal of Fatigue, 41, 107–118. <https://doi.org/10.1016/j.ijfatigue.2011.12.011>
- Radosa, S., Saeed, N. & Hillmann, F [F.]. (2023). Fungi and their Environmental Micropredators. In S. Pöggeler & T. James (Hrsg.), The Mycota. Evolution of Fungi and Fungal-Like Organisms (Bd. 14). Springer. https://doi.org/10.1007/978-3-031-29199-9_9
- Rafoth, A., Baidoei, A. & Nathannael, Y. (2004). 3D Modelling Of Diesel Engine Components In Order To Inject Hydrogen As Alternative. Int. Journ. of Marine Engineering Innovation and Research, x(x), pISSN: 2541-5972, eISSN: 2548-1479.
- Rafoth, A. & Borchhardt, J. (2021). New education tools for Electro-Technical Officer (ETO). In International Maritime Lecturers' Association (IMLA) 2020 Joint Conf. with IMEC32, ICERS15 and INSLC21.
- Rafoth, A., Busse, W. & Paulalengan, R. T. (2020). Development of A Simulink Model To Investigate Fuel Consumption And Efficiency Of A Main Fuel Engine. International Journal of Marine Engineering Innovation and Research, 5(3), 151–163.
- Rafoth, A. & Markert, M. (2021). Der Elektrotechnische Offizier im Schiffsbetrieb – Ausbildung und Einsatz im Spiegel des EEEI 2020. In STG Jahreshauptversammlung.
- Rafoth, A. & Mildenhstry, E. (2021). Parallele Wasserstoffeinspritzung in Dieselmotoren zur Reduktion des CO₂ Ausstoßes. In Regwa Symposium FH Stralsund.
- Rafoth, A. & St. Bleeck (2023). Parallele Wasserstoffeinspritzung in Dieselmotoren zur Reduktion des CO₂ Ausstoßes. In Regwa Symposium FH Stralsund.
- Rauh, A. & Auer, E. (2021). Verified Integration of Differential Equations with Discrete Delay. Acta Cybernetica. Vorab-Onlinepublikation. <https://doi.org/10.14232/actacyb.290904>
- Rauh, A. & Auer, E. (2022). Interval Extension of Neural Network Models for the Electrochemical Behavior of High-Temperature Fuel Cells. Frontiers in Control Engineering, 3. <https://doi.org/10.3389/fcteg.2022.785123>
- Rauh, A., Auer, E., Gehan, O. & Tibken, B. (Hrsg.). (2022). Frontiers in Control Engineering. Reliable Modeling, Simulation, Identification, Control and State Estimation for Dynamic Systems with Uncertainty. <https://www.frontiersin.org/research-topics/19749/reliable-modeling-simulation-identification-control-and-state-estimation-for-dynamic-systems-with-uncertainty>
- Rauh, A., Kersten, J. [Julia] & Auer, E. (2020). Intervallmethoden zur Berechnung exponentieller Zustands- einschlüsse für die Erreichbarkeitsanalyse unsicherer Systeme. at – Automatisierungstechnik, 68(10), 826–839.
- Rauh, A., Kersten, J. [Julia], Auer, E. & Aschemann, H. (2020). Intervallmethoden zur Berechnung exponentieller Zustandseinschlüsse für die Erreichbarkeitsanalyse unsicherer Systeme. at – Automatisierungstechnik, 68(10), 826–839. <https://doi.org/10.1515/auto-2019-0065>
- Reifegerste, D. & Linke, C. (2020). Die Rolle digitaler Medien in Unterstützungsrepertoires junger Krebspatient*innen: Eine ego-zentrierte Netzwerkanalyse. In A. Kalch (Hrsg.), Medien + Gesundheit: v.20. Gesundheitskommunikation und Digitalisierung: Zwischen Lifestyle, Prävention und Krankheitsversorgung (1st ed., S. 91–102). Nomos Verlagsgesellschaft.
- Reimers, H.-E., Schneider, F. G. & Seitz, F. (2020). Cash in Circulation and the Shadow Economy: An Empirical Investigation for Euro Area Countries and Beyond. Journal of Business & Economic Policy, 7(2), 10–32.
- Reimers, H.-E., Schneider, F. G. & Seitz, F. (2021). Payment Innovations, the Shadow Economy and Cash Demand of Households in Euro Area Countries. Journal of Applied Business and Economics, 23(3), 316–335.
- Reinhard, J., Kaleta, S., Abel, J. J., Wiesner, F., Wünsche, M., Seemann, E., Westermann, M., Weber, T., Nathanael, J., Iliou, A., Fiedorowicz, H., Hillmann, F [F.], Eggeling, C., Paulus, G. G. & Fuchs, S. (2023). Laboratory-Based Correlative Soft X-ray and Fluorescence Microscopy in an Integrated Setup. Microsc Microanal, 29(6), 2014–2025.
- Rickerts, L. M., Perfilov, I. & Schimmelpfennig, T.-M. (2020). Halbtrockene Funkenerosion von dentalen Implantatstrukturen aus CrCoMo. Werkstattechnik online, 110(11-12), 811–815.
- Rickerts, L. M., Perfilov, I. & Schimmelpfennig, T.-M. (2022). Electrical Discharge machining of dental implants in ultrasonic stimulated dielectric. In 21st CIRP Conference on Electro Physical And Chemical Machining.
- Riesenhuber, K. (Hrsg.). (2021). Juris Zusatzmodul Justiz Arbeitsrecht: Bd. 7. Europäisches Arbeitsrecht [2., vollständig überarbeitete und erweiterte Auflage]. De Gruyter. https://www.juris.de/perma?d=clarice-DeG-HB-EUROPAR_Toooo
- Ringel, M., Jörss, D., Fink, C. & Buchholz, B. (2023). Modeling the Combustion Behavior of a Spark-Ignition Engine. In 2023 International Interdisciplinary PhD Workshop (IIPhDW).
- Römhild, T. (2017). Manual on dynamic lighting and social needs. Dynamic light / Interreg Central Europe: Bd. 2017,11. Hochschule.
- Römhild, T. (2019). Manual on transferable technical solutions. Dynamic light / Interreg Central Europe: Bd. 2019,1. Hochschule.
- Römhild, T. (2019). Report on user acceptance. Dynamic light / Interreg Central Europe: Bd. 2019,1. Hochschule.
- Römhild, T. (2021). Kontext abhängiges Entwerfen öffentlicher Beleuchtung. In Deutsche Lichttechnische Gesellschaft e.V. (Hrsg.), Licht 2021: 21.-24.03., online : Tagungsband zum 24. Europäischen Lichtkongress (1. Auflage, S. 20–38). Deutsche Lichttechnische Gesellschaft e.V. (LITG).
- Rouzic, E. M. L., Ghiani, M., Zhuleku, E [E.], Dillenseger, A., Maywald, U [U.], Wilke, T [T.] & et al. (2023). Claims-based algorithm to estimate the Expanded Disability Status Scale for multiple sclerosis in a German health insurance fund: a validation study using patient medical records. Frontiers in neurology, 14.
- Ruhnke, M. & Laar, C. von [C.] (2021). Schäden an Pfahljochbrücken im Wasser – eine Bestandsanalyse. In 31. Hanseatische Sanierungstage, Schützen und Erhalten – mit Sachverständ und Handwerkskunst (S. 163–177). Fraunhofer IRB Verlag.
- Salti, H., Kramer, L., Nelz, S.-C., Mitzner, S., Lorenz, M [M.], Schwerdt, D. & Wasserkort, R. (2021). Decellularization of rat precision-cut kidney slices - Application of physical and chemical methods. In Deutsche Gesellschaft für Nephrologie Tagung.
- Salti, H., Kramer, L., Nelz, S.-C., Mitzner, S., Lorenz, M [M.], Schwerdt, D. & Wasserkort, R. (2021). Development of humanized 3D Kidney Tissue Models from decellularized rat precision-cut kidney slices. In TERMIS.
- Sandkuhl, K., Wißotzki, M., Schmidt, R. & Zimmermann, A. (2021). The Digital Business Architect: Rationale and Experiences of an IS Education Profile in Digital Transformation. 29th International Conference on Information Systems Development (ISD 2021), Track: IS Methodologies and Education, Valencia, Spain 2021.
- Sandmann, A., Ahrens, A., Lochmann, S. & Pachnicke, S. (2020). Baseband Linearity and Interference Effects in Intensity Modulated and Direct Detected Optical MIMO systems. Optical Fiber Technology, 60, 1–8.
- Scharff, A., Glienke, R., Alex, J., Schröder, M., Kalkowsky, F., Winkel, G. & Peters, R. (2023). Strategien zum Verlängern der Gesamtlebensdauer von orthotropen Fahrbahnplatten aus Sicht der Anwendungspraxis. In DVS Congress 2023 | Große Schweißtechnische Tagung.
- Schaub, M., Finger, G., Milbradt, G., Riebe, T., Baldau, M [M.] & Kirchhoff, M. (2020). Numerische Modellierung von Emissionen und Brennstoffverbrauch beim Manövrieren von Schiffen. Schiff & Hafen, 2020(09), 12–17.
- Schauer, T. & Simanski, O. (2021). Real-Time Estimation of Lung Model Parameters and Breathing Effort During Assisted Ventilation. IFAC-PapersOnline, 54(15), 198–202. <https://doi.org/10.1016/j.ifacol.2021.10.255>
- Scheepers, J. & Gebhardt, J. (2021). Inside TVET: Challenges and Needs for TVET in South Africa – Cape-VET Vol. 1. <https://doi.org/10.5281/ZENODO.5205502>
- Scheepers, J. & Gebhardt, J. (2021). Inside TVET Challenges and Needs for TVET in South Africa Cape. In C. Nägle, N. Kersh & B. E. Stalder (Hrsg.), Trends in Vocational Education and Training Research: 4 Proceedings of the European Conference on Educational Research (Vocational Education and Training Network (VETNET)).
- Schein, M., Eschenbach, M. & Fromm, A. (2021). Tailored Structures: Parametrics for sustainable Constructions. In Inspiring the Next Generation: Proceedings of the International Conference on Spatial Structures 2020/21.
- Schietzel-Kalkbrenner, J., Petelkau, N., Strube, D [Dominic] & Daase, C. (2024). The Recruiting Process as an Attractiveness Factor: How Do Companies Manage to Position Themselves Competitively as Employers? In Proceedings of the 6th International Conference on Finance, Economics, Management and IT Business (S. 54–59). SCITEPRESS - Science and Technology Publications. <https://doi.org/10.5220/0012630000003717>
- Schimmelpfennig, T.-M. (2021). Wie verstehe ich meinen Prozess richtig? Industrial Quality, Sonderausgabe 2021.
- Schimmelpfennig, T.-M., Rickerts, L. M. & Perfilov, I. (2021). Near-dry die-sinking EDM of CrCoMo dental implant structures. In 21st EUSPEN International Conference & Exhibition.
- Schimmelpfennig, T.-M., Rickerts, L. M. & Perfilov, I. (2022). Ultraschallunterstützte Funkenerosion – EDM von dentalen Implantatstrukturen aus CrCoMo im ultraschallstimulierten Dielektrikum. Werkstattechnik online, 112(01-02), 39–43.
- Schindler, D., Bensmann, F., Dietze, S. & Krüger, F. (2021). SoMeSci—A 5 Star Open Data Gold Standard Knowledge Graph of Software Mentions in Scientific Articles. In Proceedings of the 30th ACM International Conference on Information and Knowledge Management (CIKM '21).
- Schindler, D., Bensmann, F., Dietze, S. & Krüger, F. (2022). The role of software in science: a knowledge graph-based analysis of software mentions in PubMed Central. PeerJ. Computer science, 8, e835. <https://doi.org/10.7717/peerj.cs.835>
- Schindler, D., Spors, S., Demiray, B. & Krüger, F. (2022). Automatic Behavior Assessment from Uncontrolled Everyday Audio Recordings by Deep Learning. Sensors (Basel, Switzerland), 22(22). <https://doi.org/10.3390/s22228617>
- Schindler, D., Yan, E., Spors, S. & Krüger, F. (2023). Retracted articles use less free and open-source software and cite it worse. Quantitative Science Studies, 4(4), 820–838. https://doi.org/10.1162/qss_a_00275
- Schindler, D., Yan, E., Spors, S. & Krüger, F. (2023). Software use in retracted papers: Proceedings of the 19th International Conference on Scientometrics & Informetrics (ISSI), Bloomington, Indiana, USA, Jul. 2023.
- Schindler, D., Zapilko, B. & Krüger, F. (2020). Investigating Software Usage in the Social Sciences: A Knowledge Graph Approach. In The Semantic Web.
- Schmieder, R. E., Wassmann, S., Predel, H. G., Weisser, B., Blettenberg, J., Gillessen, A. & et al. (2023). Improved Persistence to Medication, Decreased Cardiovascular Events and Reduced All-Cause Mortality in Hypertensive Patients With Use of Single-Pill Combinations: Results From the START-Study. Hypertension. <https://www.ncbi.nlm.nih.gov/pubmed/36687918>
- Schmolke, M. (2021). Kohärenzmodell gesunder Online-Arbeit mit exemplarischer Ableitung von Lernregeln für die Unterstützung effektiver virtueller Lernaktivitäten. In Virtueller ASIM Workshop 2021: Simulation Technischer Systeme / Grundlagen und Methoden in Modellbildung und Simulation & Bildung und Simulation.
- Schmolke, M. (2022). Process Mining Model Quality in Software Development Case Studies: An Analysis. In S. Eggert, C. Lemke, V. E. Majuntke, B. Malzahn, V. Meister, K. Simbeck, C. Czarnecki & M. Wolf (Hrsg.), Angewandte Forschung in der Wirtschaftsinformatik 2022: Tagungsband zur 35. Jahrestagung des Arbeitskreises Wirtschaftsinformatik an Hochschulen für Angewandte Wissenschaften im deutschsprachigen Raum (AKWI) vom 11.09. bis 13.09.2022, ausgerichtet von der Hochschule für Technik und Wirtschaft Berlin (HTW Berlin) und der Hochschule für Wirtschaft und Recht Berlin (HWR Berlin) (S. 132–147). GITO.
- Schmolke, M. (2024). Contributions of Process Mining and Simulation to the Process Management Lifecycle Using the Example of Healthcare Case Studies. In M. Mujica Mota & P. Scala (Hrsg.), Communications in Computer and Information Science, Simulation for a Sustainable Future (S. 190–204). Springer Nature Switzerland. <https://doi.org/10.1007/978-3-03-684357-14>
- Schmolke, M. & Javaid, M. J. A Use Case Analysis assessing Process Mining Model Quality for Simulation. In Wissenschaft und Praxis: Gemeinsam die digitale Zukunft gestalten (S. 187–192). Gesellschaft für Informatik.
- Scholz, S., Wellner, K., Zeitner, R., Schramm, C., Hackel, M. & Hackel, A. (2017). Architekturpraxis Bauökonomie: Grundlagenwissen für die Planungs-, Bau- und Nutzungsphase sowie Wirtschaftlichkeit im Planungsbüro. SpringerLink Bücher. Springer Vieweg. <https://doi.org/10.1007/978-3-658-17584-9>
- Schröder, M., Bürger, J., Krüger, F., Waltemath, D., Dörr, M., Winterhalter, C., Spors, S., Matela, J., Al-Suadi, S., Baldauf, M [Michael], Becker, M., Birke, V., Biskup, T., Bläsing, D., Budde-Sagert, K., Cap, C. H., Eggert, A., Escobar, H. M., Feistel, S., . . . Zieliński, O. (2024). Gemeinschaftliches Konzept für eine Landesinitiative zum Forschungsdatenmanagement in Mecklenburg-Vorpommern. <https://doi.org/10.5281/ZENODO.13889465>
- Schröder, M., Genehr, S., Köhling, R., Schmidt, S., Schneider, R., Spors, S., Szepannek, G., Waltemath, D. & Krüger, F. (2023). A Survey on the Current Status of Research Data Management in Mecklenburg-Vorpommern. Proceedings of the Conference on Research Data Infrastructure, 1. <https://doi.org/10.52825/cordi.v1i.303>
- Schröder, M., Hahne, W., Krüger, F. & Spors, S. (2021). Reproducibility of an ABX-Listening Test using Electronic Documentation and Automation: A case study. In Proceedings of the German Annual Conference on Acoustics (DAGA).
- Schröder, M., Krüger, F., Matela, J., Reineke, A., Richter, A., Szameit, A., Stahl, A., Eggert, A., Erdmann, A., Meuser, A., Theise, A., Zeleke, A., Slowig, B., Winter, B., Schauer, B., Poschkamp, B., Gloede, C., Schmidt, C. O., Hassenrück, C., . . . Bodnar, Y. (Hrsg.) (2024). 5. Vernetzungstreffen: Forschungsdatenmanagement in Mecklenburg-Vorpommern. Zenodo.
- Schröder, M., LeBlanc, H., Spors, S. & Krüger, F. (2020). Intra-consortia Data Sharing Platforms for Interdisciplinary Collaborative Research Projects. Information Technology, 62(1). <https://doi.org/10.1515/itit-2019-0039>
- Schröder, M., Stähle, S. & Krüger, F. (2020). Encoding Reproducible and Executable Experiments With Jupyter Notebooks. In Reference Module in Biomedical Sciences. <https://doi.org/10.1016/b978-0-12-801238-3.11686-1>
- Schröder, M., Stähle, S., Nebe, B. & Krüger, F. (2020). Towards in-situ knowledge acquisition for research data provenance from electronic lab notebooks. In Proceedings of the 1st Workshop on Research data management for Linked Open Science (DaMaLOS) co-located with 19th International Semantic Web Conference.

- Schröder, M., Stähle, S., Groth, P., Nebe, J. B., Spors, S. & Krüger, F. (2022). Structure-based knowledge acquisition from electronic lab notebooks for research data provenance documentation. *Journal of biomedical semantics*, 13(1), 4. <https://doi.org/10.1186/s13326-021-00257-x>
- Schroeder, M. & Praise, G. (2023). Reduction of Supply Chain Risks by Using Blockchain Technology. In I. Kabashkin, I. Yatskiv & O. Prentkovskis (Hrsg.), *Lecture Notes in Networks and Systems: Bd. 640, Reliability and Statistics in Transportation and Communication: Selected Papers from the 22nd International Multidisciplinary Conference on Reliability and Statistics in Transportation and Communication: Artificial Intelligence in Transportation, RelStat-2022, October 20-21, 2022, Riga, Latvia (1st ed. 2023, S. 151–161)*. Springer International Publishing; Imprint Springer. https://doi.org/10.1007/978-3-031-26655-3_14
- Schubert, A. U., Damerius, R., Finger, G., Fischer, S [S.], Milbradt, G., Kurowski, M., Gluch, M. & Jeinsch, T. (2020). Consumption Optimised Manoeuvring Method for Ship Automation. In *Proceedings of the International Ship Control Systems Symposium 2020 (iSCSS)*. Institute of Marine Science & Technology.
- Schubotz, S. (2021). Einfluss der Frequenz und Erwärmungszeit auf die Härtetiefe von großen Werkstücken. *Prozesswärme*, 4(6), 36–40.
- Schubotz, S. (2021). Energieversorgung für das Induktive Härteln. In *Tagungsband Intensiv-Seminar: Induktives Härteln*. Vulkan-Verlag.
- Schubotz, S. (2021). Influence of frequency and heating time on hardening depth of large workpieces. *heat processing*, 19(4), 31–36.
- Schubotz, S. (2021). Research of multicentric ring coils in comparison to classic ring coils. In I. Doležel & J. Kožený (Hrsg.), *Proceedings of XIX International UIE-Congress on Electrotechnologies for Material Processing (S. 75–76)*. Westböhmische Universität in Pilsen.
- Schubotz, S. & Stiele, H. (2021). Effizienzerhöhung durch den Einsatz langer mehrwindiger Induktoren. In O. Irretier & M. Jost (Hrsg.), *Handbuch Härtereipraxis 3* (S. 152–159).
- Schubotz, S. & Stiele, H. (2023). Einfluss der Frequenz und Erwärmungszeit auf die Härtetiefe von großen Werkstücken. In O. Irretier & M. Jost (Hrsg.), *Handbuch Härtereipraxis 4* (S. 288–295).
- Schwarz, M., Glienke, R., Wegener, F., Blunk, C. & Henkel, K.-M. (2020). Calculation of lockbolt joints in mechanical engineering. *Materialwissenschaft und Werkstofftechnik*, 51(3), 267–283.
- Schwarz, M., Glienke, R., Wegener, F. & Seidel, M. (2022). Nachweis der Ermüdungsfestigkeit exzentrisch belasteter Schraubenverbindungen in Flanschverbindungen von Windenergieanlagen. In VDI-Berichte: Bd. 2403, *Schraubenverbindungen 2022: 7. VDI-Fachtagung : Berechnung, Gestaltung, Montage, Anwendung*: Berlin, o8. und 09. November 2022. VDI. <https://doi.org/10.51202/9783181024034-491>
- Schwarz, M., Glienke, R., Blunk, C. & Henkel, K.-M. (2022). Use of lockbolt joints for vehicle construction. In *6th International Conference on Steels in Cars and Trucks*.
- Schwarz, M., Glienke, R., Wegener, F. & Seidel, M. (2023). Fatigue Assessment of Eccentrically Loaded Flange Connections in Wind Energy Turbines. In *33rd International Ocean and Polar Engineering Conference (ISOPE)*.
- Schwerdt, D., Kaiser, B., Wuttke, U., Hoche, H., Oechsner, M., Berger, C. & Rekersdrees, T. (2013). Comparative evaluation of properties of a traditional quenched and tempered steel and a new, microalloyed bainitic steel as well as processing concepts for forged components. In *Proceedings of Materials Science & Technology*.
- Schwerdt, D., Lesnich, N. & Schütz, A. (2017). Gefüge- und Härteprüfungen an kaltgewundenen Federn mit geschliffenen Federenden. In *11. Ilmenauer Federntag „Neueste Erkenntnisse zu Funktion, Berechnung, Prüfung und Gestaltung von Federn und Werkstoffen“*.
- Schwerdt, D., Lesnich, N., Weinrich, A. & Kamps, T. (2019). Rissdetektion an Federdrähten mittels Schallemission. In *Ilmenauer Federntag „Neueste Erkenntnisse zu Funktion, Berechnung, Prüfung und Gestaltung von Federn und Werkstoffen“*.
- Schwerdt, D., Lesnich, N. & Salih, M. (2020). Application of sound measurements for quality control of wires during the production of technical springs. In *6th International Conference on Steels in Cars and Trucks*.
- Schwerdt, D., Lesnich, N. & Salih, M. (2020). Enhancement of in process - quality control of technical springs by using sound emission analysis. In *2nd International Conference on Spring Technology (ICST)*.
- Schwerdt, D., Lesnich, N., Salih, M. & Westphal, F. (2020). Rissentstehungs- und Risswachstumsdetektion mittels Schallemission im Herstellungsprozess von technischen Federn. In *WIRE 2020*.
- Schwerdt, D. & Lorenz, M [Mathias]. (2021). Vorrichtung und Verfahren Deszellularisierung und Allografts mittels mechanischer Reinigungsverfahren (DE 10 2021 112 930 A1).
- Schwerdt, D., Pyttel, B., Berger, C., Oechsner, M. & Kunz, U. (2014). Microstructure investigations on two different aluminum wrought alloys after very high cycle fatigue. *International Journal of Fatigue*, 60, 28–33. <https://doi.org/10.1016/j.ijfatigue.2013.09.015>
- Schwerdt, D., Salih, M., Lesnich, Z., Al-Hamdayni, N., Maawad, E. & Schell, N. (2020). Rissdetektion mittels Schallemission an Federstahldrähten mit unterschiedlicher kristallographischer Textur. In *38. Vortrags- und Diskussionstagung „Werkstoffprüfung 2020“*.
- Seitz, H., Lorenz, M [M.], Jonitz-Heincke, A., Bader, R. & Horberger, C. (2021). Vibrational laser spectroscopy - Initial study on in-situ Raman as a promising non-destructive and non-contact measurement tool to control decellularization processes of allogeneic tissues. In *Annual Meeting of the German Society of Biomedical Engineering (DGBMT)*.
- Sell, S. & Linke, C. (2019). Zur kommunikationswissenschaftlichen Analyse von Onlinediskursen: Konzeption, Adaption und Grenzziehung transmedialer Diskurse. In T. Wiedemann & C. Lohmeier (Hrsg.), *Diskursanalyse für die Kommunikationswissenschaft: Theorie, Vorgehen, Erweiterungen* (S. 307–330). Springer VS.
- Simianski, O. & Kähler, R. (2020). Artificial regulation of blood pressure. In M. St. Leonhardt & M. Walter (Hrsg.), *Medical technology system* (S. 30). Springer.
- Singh, J. & Ahrens, A. (2023). Joint-Transceiver Equalization Technique over a 1.4 km Multi-Mode Fiber Using Optical MIMO Technique in IM/DD Systems. *Photonics*, 10, 1–19. <https://doi.org/10.3390/photonics10010001>
- Singh, J., Ahrens, A., Lochmann, S. & Benavente-Peces, C [C.] (2021). Joint Pre- and Post- Equalization in Optical MIMO with Multimode Fiber Link. In *IEEE Microwave Theory and Techniques in Wireless Communications (MTT-W)*.
- Singh, J., Ahrens, A. & Lochmann, S. (2022). Joint Pre- and Post-Equalization with Higher-Order Modulation Formats in SDM-Based Optical MIMO Systems. *Photonics*, 9(11), 1–14.
- Singh, J., Sandmann, A., Ahrens, A., Lochmann, S. & Benavente-Peces, C [C.] (2021). Geometric Constellation Shaping with Pulse Amplitude Modulation in Short Reach Optical Links. In *IEEE Microwave Theory and Techniques in Wireless Communications (MTT-W)*.
- Singh, J., Sandmann, A., Ahrens, A. & Lochmann, S. (2021). Joint Pre- and Post-equalization Using Optical Multi-level Signaling. *Journal of Engineering*, 1–5.
- Singh, R., Vigelahn, L., Schütt, C., Burmeier, H., Chakma, S. & Birke, V. (2024). Defining quality assurance guidance for effective selection of technical grade zero-valent iron production batch for groundwater remediation using permeable reactive barrier. *Journal of Environmental Management*, 368, 121945. <https://doi.org/10.1016/j.jenvman.2024.121945>
- Siswantoro, N., Priyanta, D., Zaman, M. B., Semin, Andaka, P. S. & Busse, W. (2021). Risk analysis of scrubber vessel using risk-based inspection method in geothermal power plant. In *IOP Conf. Series: Earth and Environmental Science*.
- Soadamara, J. M., Busse, W. & Wehner, K. (2020). Data-Based Modelling of Ship Propulsion for a 2500 TEU Feeder Container Ship. *International Journal of Marine Engineering Innovation and Research*, 5(4).
- Sotnyk, I., Kurbatova, T., Romaniuk, Y., Prokopenko, O., Gonchar, V., Sayenko, Y., Praise, G. & Sapiński, A. (2022). Determining the Optimal Directions of Investment in Regional Renewable Energy Development. *Energies*, 15(10), 3646. <https://doi.org/10.3390/en15103646>
- St. Leonhardt, M. & Walter, M. (Hrsg.). (2020). *Medical technology system*. Springer.
- Stapf, P., Götten, M., Ahrens, A. & Lochmann, S. (2021). System Based Code Evaluation Criteria for CDM Applications in Sensor and Data Transmission Systems. In *International Conference on Sensor Networks (Sensorsnets)*.
- Stockmar, A. (2017). Handbook about interpretation of EN 13201 and Room for implementation of Dynamic Lighting. *Dynamic light / Interreg Central Europe: Bd. 2017/10. Hochschule*.
- Stranghöner, N., Makevius, L., Henkel, K.-M., Glienke, R. & Dörre, M. (2021). Loss of preload in preloaded bolted connections over the service life. *ce/papers*, 4(2-4), 110–118. <https://doi.org/10.1002/cepa.1269>
- Stranghöner, N., Makevius, L., Flügge, W [W.], Henkel, K.-M., Glienke, R., Schwarz, M., Rudolf, A. & Fiedler, S. (2022). Gleitfeste Verbindungen mit Imperfektionen. *Stahlbau*, 91(6), 491–502. <https://doi.org/10.1002/stab.202200028>
- Streuer, O. (2022). Aktienmarketing und Wertorientierung als Handlungsfeld der Investor Relations. In C. P. Hoffmann, D. Schiereck & A. Zerfaß (Hrsg.), *Springer Reference. Handbuch Investor Relations und Finanzkommunikation* (S. 509–533). Springer Gabler.
- Streuer, O. & Hoffmann, C. P. (2022). Strategische Planung der Investor Relations und Finanzkommunikation. In C. P. Hoffmann, D. Schiereck & A. Zerfaß (Hrsg.), *Springer Reference. Handbuch Investor Relations und Finanzkommunikation* (S. 251–275). Springer Gabler.
- Strube, D [Dominik] & Daase, C. (2022). The Correlation of ESG Ratings and Abnormal Returns: An Event Study Using Machine Learning. In X. Li, C. Yuan & J. L. Kent (Hrsg.), *Springer eBook Collection, Proceedings of the 5th International Conference on Economic Management and Green Development* (S. 76–81). Springer Nature Singapore; Imprint Springer.
- Strube, D [Dominik], Daase, C. & Schietzel-Kalkbrenner, J. (2024). Applications of Artificial Intelligence in Sustainability Assessment and Risk Management in European Banking. In *Proceedings of the 6th International Conference on Finance, Economics, Management and IT Business* (S. 25–32). SCITEPRESS - Science and Technology Publications. <https://doi.org/10.5220/0012498700003717>
- Strube, D [Dominik], Mayer-Friedrich, M. & Streuer, O. (2023). Bewertung, Umsetzung und Perspektiven der Integration von Nachhaltigkeitsaspekten in der Managementpraxis von Regionalbanken: Eine empirische Analyse. *CORPORATE FINANCE*(11-12), 270–277.
- Strube, D [Dominik], Mayer-Friedrich, M. & Streuer, O. (2023). Quo Vadis, Nachhaltigkeit? Eine empirische Untersuchung der Nachhaltigkeitsintegration im Kreditmanagement von Volksbanken und Sparkassen. *CORPORATE FINANCE*(09-10), 221–223.
- Suravee, S., Stoev, T., Schindler, D., Hochgraeber, I., Pinkert, C., Holle, B., Halek, M., Krüger, F. & Yordanova, K. (2022). Annotation Scheme for Named Entity Recognition and Relation Extraction Tasks in the Domain of People with Dementia. In *2022 IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)* (S. 236–241). IEEE. <https://doi.org/10.1109/percomworkshops53856.2022.9767278>
- Vallée, T., Fricke, H., Myslicki, S., Kaufmann, M., Voß, M., Denkert, C., Glienke, R., Dörre, M., Henkel, K.-M. & Gerke, T. (2021). Modelling and strength prediction of pre-tensioned hybrid bonded joints for structural steel applications. *The Journal of Adhesion. Vorab-Onlinepublikation*. <https://doi.org/10.1080/00218464.2021.9728498>
- van Nguyen, T. (2023). Development of an anaerobic pre-treatment of high strength organic wastewater from the cleaning of tanks of food and fodder road transports [University Rostock, Rostock]. DataCite.
- Völkel, S. & Latz, K. (2023). Development of a Tuned Liquid Particle Damper with Optimised Damping Characteristics: 9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Athen, Greece, 2023.
- Völkel, S. & Latz, K. (2023). Innovativer Fluidtilger zur Reduzierung von Schwingungen schlanker Kirchtürme: 33. Hanseatische Sanierungstage, Erhalten durch Sanieren. DenkMal drüber nach!, Bundesverband für Feuchte & Altbausanierung e.V., Lübeck, Germany, 2023.
- Völkel, S., Latz, K., Klinner, H. & Bittermann, T. (2023). Tuned Liquid Particle Damper for Optimising the Vibration Behaviour of Slender Structures: International Interdisciplinary PhD Workshop IIPhDW, Wismar, Germany, 2023.
- Wagner, J. C. (2023). Maximalnetzplan zur reaktiven Steuerung von Produktionsabläufen [University Würzburg]. DataCite.
- Wegener, C., Prommer, E. & Linke, C. (2020). Gender Representations on YouTube: The Exclusion of Female Diversity. *M/C Journal*, 23(6). <https://doi.org/10.5204/mcj.2728>
- Wegener, F., Schwarz, M., Glienke, R., Seidel, M. & Marten, F. (2020). Numerische Modellierung des Kraftverformungsverhaltens vorgespannter Schrauben in L-Flanschverbindungen. *Stahlbau*, 89(3), 266–281.
- Wegener, F., Seidel, M., Glienke, R., Marten, F. & Schwarz, M. (2020). Numerische Simulation von Vorspannkraftverlusten in Ringflanschverbindungen. *Stahlbau*, 89(11).
- Wego, A [A.]. (2022). Elektroauto vs. Verbrennerfahrzeug im einjährigen Alltagsbetrieb. <https://www.hs-wismar.de/elektroauto-vs-verbrenner>
- Wego, A [Ansgar] (2022). Feldversuch zum Alltagsbetrieb eines Elektroautos. *elektroautomobil*. <https://www.elektroautomobil.com/newsbeitrag/feldversuch-elektroauto-teil-1/>
- Wego, A [Ansgar] (2022). Feldversuch zum Alltagsbetrieb eines Elektroautos. *Vision Mobility*. <https://vision-mobility.de/news/feldversuch-zum-alltagsbetrieb-eines-elektroautos-17927.html>
- Wego, A [Ansgar] (2022). Wärmepumpenheizung im Feldversuch. *Heizungsjournal*(10/2022), 60–64.
- Wego, A [Ansgar] (2023). Energiedefizit im Winter. *erneuerbare energien*(02/2023), 62–63.
- Wego, A [Ansgar] (2023). Ermittlung des spezifischen Transmissionswärmeverlustes. *BWK Energie*, 75(11-12/23), 14–17.
- Wego, A [Ansgar] (2023). Fehleinschätzungen des Energiebedarfs vermeiden. *BWK Energie*, 75(5-6/23), 54–57.
- Wego, A [Ansgar] (2023). Feldversuch zu Energieflüssen bei Wohngebäuden mit PV-Anlage, Wärmepumpenheizung und Elektroautobetrieb. *ew – Magazin für die Energiewirtschaft*(2/2023), 26–31.
- Wego, A [Ansgar] (2023). Field test on energy flows in residential buildings with PV systems, heat pump based heating and battery electric car operation. In *IEEE International Interdisciplinary PhD Workshop (IIPhDW)*.
- Wego, A [Ansgar] (2023). Field test on seasonal behavior of an electric vehicle in everyday operation. In *IEEE International Interdisciplinary PhD Workshop (IIPhDW)*.
- Wego, A [Ansgar] (2023). Methode zur Bestimmung des spezifischen Transmissionswärmeverlustes eines Gebäudes aus Langzeit-Feldversuchsdaten. *Heizungsjournal*(4-5/2023), 48–51.
- Wego, A [Ansgar] (2023). Private Autarkie. *erneuerbare energien*. <https://www.erneuerbareenergien.de/transformation/lastmanagement/private-autarkie-energiedefizit-im-winter>
- Wego, A [Ansgar] (2023). Sole/Wasser-Wärmepumpe zwei Betriebsjahre messtechnisch untersucht. *Heizungsjournal*. https://www.heizungsjournal.de/waermepumpenheizung-im-feldversuch_19476?p=1
- Wego, A [Ansgar] (2023). Von der Praxis in die Theorie. *Heizungsjournal*. https://www.heizungsjournal.de/von-der-praxis-in-die-theorie_110254?p=1
- Weisser, B., Wassmann, S., Predel, H. G., Schmieder, R. E., Gillessen, A., Wilke, T [T.] & et al. (2024). Effect of a single pill concept on clinical and pharmacoeconomic outcomes in cardiovascular diseases. *Eur Heart J Cardiovasc Pharmacother*. Vorab-Onlinepublikation. <https://doi.org/10.1093/ejhcvp/pvad034>
- Weisser, B., Wilke, T [T.], Predel, H. G., Schmieder, R. E., Wassmann, S., Gillessen, A. & et al. (2022). Single pill treatment in daily practice is associated with improved clinical outcomes and all-cause mortality in cardiovascular diseases: results from the START project. *Eur Heart J*, 43.
- Wichmann, J. (2022). Design criteria for Indoor Positioning Systems in hospitals using technological, organizational and individual perspectives. *DataCite*.
- Wichmann, J. (2022). Indoor positioning systems in hospitals: A scoping review. *DIGITAL HEALTH*, 8, 205520762210816. <https://doi.org/10.1177/205520762210816>
- Wichmann, J. & Leyen, M. (2021). Factors Influencing the Intention of Actors in Hospitals to Use Indoor Positioning Systems: Reasoned Action Approach. *Journal of medical Internet research*, 23(10), e28193. <https://doi.org/10.2196/28193>
- Wichmann, J., Sandkuhl, K., Shilov, N., Smirnov, A., Timm, F. & Wißotzki, M. (2020). Enterprise Architecture Frameworks as Support for Implementation of Regulations: Approach and Experiences from GDPR. *Complex Systems Informatics and Modeling Quarterly*(24), 31–48. <https://doi.org/10.7250/csimg.2020-24-03>
- Wichmann, J., Wißotzki, M. & Góralski, P. (2020). Experiences of Applying the Second Step of the Digital Innovation and Transformation Process in Zoological Institutions. In R. A. Buchmann, A. Polini, B. Johansson & D. Karagiannis (Hrsg.), *Lecture Notes in Business Information Processing. Perspectives in Business Informatics Research* (Bd. 398, S. 35–49). Springer International Publishing. https://doi.org/10.1007/978-3-030-61140-8_3
- Wichmann, J., Wißotzki, M. & Sandkuhl, K. (2021). Toward a Smart Town: Digital Innovation and Transformation Process in a Public Sector Environment. In A. Zimmermann, R. J. Howlett & L. C. Jain (Hrsg.), *Smart Innovation, Systems and Technologies. Human Centred Intelligent Systems* (Bd. 189, S. 89–99). Springer Singapore. https://doi.org/10.1007/978-981-15-5784-2_8

- Wilichowski, M. & Harfosh, M. A. (2020). Mehrzonen-Feststoffwärmespeicher für Industrie und Gewerbe. In Hochschule Wismar (Hrsg.), Forschung und Innovation: Ausgewählte Forschungsprojekte der Hochschule Wismar. 2016-2019 (S. 27–29).
- Wilke, T [T.], Mueller, S., Fuchs, A [A.], Kaltoft, M. S., Kipper, S. & Cel, M. (2020). Diabetes-Related Effectiveness and Cost of Liraglutide or Insulin in German Patients with Type 2 Diabetes: A 5-Year Retrospective Claims Analysis. *Diabetes Ther*, 11(10), 2357–2370. <https://doi.org/10.1007/s13300-020-00866-4>
- Wilke, T [T.], Weisser, B., Predel, H. G., Schmieder, R. E., Wassmann, S., Gillessen, A. & et al. (2022). Effects of cardiovascular single pill combinations compared with identical multi-pill therapies on healthcare cost and utilization in Germany. *J Comp Eff Res*, 11(6), 411–422. <https://www.ncbi.nlm.nih.gov/pmc/articles/3531528/>
- Wißotzki, M., Sandkuhl, K. & Wichmann, J. (2021). Digital Innovation and Transformation: Approach and Experiences. In A. Zimmermann, R. Schmidt & L. C. Jain (Hrsg.), Intelligent Systems Reference Library. Architecting the Digital Transformation (Bd. 188, S. 9–36). Springer International Publishing. https://doi.org/10.1007/978-3-030-49640-1_2
- Wißotzki, M. & Wichmann, J. (2019). “Analyze & Focus Your Intention” as the First Step for Applying the Digital Innovation and Transformation Process in Zoos. *Complex Systems Informatics and Modeling Quarterly*(20), 89–105. <https://doi.org/10.7250/csimg.2019-20.05>
- Wollensak, M. & Haroske, G. (2020). Windblades-Up: Entwicklung eines Konzeptes zur Wiederverwendung von großformatigen Rotorblättern von Windkraftanlagen aus Composite Baustoffen für das Bauwesen. callidus. Verlag wissenschaftlicher Publikationen.
- Zaman, M. B., Djatmiko, E. B., Nugroho, S., Murdjito & Busse, W. (2021). Development of safety for marine transportation in the Maratua Island. In IOP Conf. Series: Earth and Environmental Science.
- Zaman, M. B., Siswantoro, N., Priyanta, D., Pitana, T., Prastowo, H., Semin & Busse, W. (2021). The Combination of Reliability and Predictive Tools to Determine Ship Engine Performance based on Condition Monitoring. In IOP Conf. Series: Earth and Environmental Science.
- Zascerinska, J. (2022). TVET teacher training in South Africa literature review. Society Integration Education, Proceedings of the International Scientific conference(1), 295–304. https://conferences.rta.lv/index.php/SIE/SIE_2022
- Zascerinska, J., Melnikova, J [J.] & Ahrens, A. (2020). Teaching Staff View on Kazakhstan's Engineering and Information Technology Higher Education at Master Level. In 16th International Conference "Social Innovations for Sustainable Regional Development".
- Zhuleku, E [Evi], Antolin-Fontes, B [Beatriz], Borsi, A [Andras], Nissinen, R [Riikka], Bravatà, I [Ivana], Barthelmes, J. N [Jennifer Norma], Le Bars, M., Lee, J., Passey, A., Maywald, U [U.], Deiters, B [Barthold], Bokemeyer, B [Bernd], Wilke, T [Thomas] & Ghiani, M. (2022). Real-world outcomes associated with switching to anti-TNFs versus other biologics in Crohn's Disease patients: A retrospective analysis using German claims data. *Therapeutic advances in gastroenterology*, 15, 17562848221130554. <https://doi.org/10.1177/17562848221130554>
- Zhuleku, E [E.], Antolin-Fontes, B [B.J.], Borsi, A [A.], Nissinen, R [R.], Bravatà, I [I.], Barthelmes, J. N [J. N.] & et al. (2023). Burden of disease among patients with prevalent Crohn's disease: results from a large German sickness fund. *Int J Colorectal Dis*, 38(1), 74. <https://doi.org/10.1007/s00384-023-04368-y>
- Zhuleku, E [E.], Wirth, D., Nissinen, R [R.], Bravatà, I [I.], Ziaura, D., Duva, A. & et al. (2024). Switching within versus out of class following first-line TNFi failure in ulcerative colitis: real-world outcomes from a German claims data analysis. *Therapeutic advances in gastroenterology*, 17. <https://doi.org/10.1177/17562848231173387>
- Zhuleku, E [Evi], Ziemssen, T [Tjafl], Dillenseger, A., Maywald, U [U.], Wilke, T [Thomas] & Ghiani, M. (2022). RWD126 Introducing the German MSDS-AOK PLUS Database: Linkage of Administrative Claims Data and a Patient Registry for Advanced RWE Capabilities in Multiple Sclerosis. *Value in Health*, 25(12), S473. <https://doi.org/10.1016/j.jval.2022.09.2351>
- Zhuleku, E [Evi], Ziemssen, T [Tjafl], Dillenseger, A., Maywald, U [U.], Wilke, T [Thomas] & Ghiani, M. (2022). RWD58 Coding of Multiple Sclerosis Subtypes in German Administrative Claims Data: A Validation Study Using the MSDS-AOK PLUS Linked Database. *Value in Health*, 25(12), S459. <https://doi.org/10.1016/j.jval.2022.09.2283>
- Zwar, M., Haack, F., Bansod, Y. D., Spiliotis, K., Elhensheri, M., Molina, F. & Krüger, F. (Hrsg.) (2020). Proceedings of the Conference on Progress in Electrically Active Implants - Tissue and Functional Regeneration (ELAINE 2020).





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