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# forum

2016

*HTWG's Research Magazine*



Supplement to the German edition:

Chapter „Experts“ in English edition:

Professors of the HTWG and their expertises and research areas

# Experts

*Experts profiles of the professors of the HTWG Konstanz*

## Faculty of Architecture and Design

### *Prof. Andreas Bechtold*

*Teaching areas:* Time-based design, moving images in communication design: Film technology, screenplay and dramaturgy of storytelling, directing, cutting, sound design and film history. *Research areas:* Anthropology of the narrative. Developing a sustainable teaching concept for communicating active media skills (journalistic work, design and implementation of TV formats etc.). *Special expertise:* Screenwriter and children's book author.  
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### *Prof. Dr. phil. Volker Friedrich*

*Teaching areas:* Professor for writing and rhetoric. *Research areas:* Philosophy, rhetoric, writing research, media theory. *Special expertise:* Media design, product development and realisation.  
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### *Prof. Oliver Fritz*

*Teaching areas:* Digital media CAD/CAM and architectural representation. *Research areas:* CAD/CAM, computer-aided design and simulation processes, Building Information Modelling, Presentation Methodology, Mass Customisation, participation models. *Special expertise:* Media design, product development and realisation.  
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### *Prof. Myriam Gautschi*

*Teaching areas:* Design, interior design, support technology. *Research areas:* Perception of space, material and space, light and space, Charlotte Perriand, intercultural and cultural figures. *Special expertise:* Brazilian architecture of the modern age, daylight and artificial light in architecture.  
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### *Prof. Judith Grieshaber*

*Teaching areas:* Communication design and media design, analytical design, experimental and conceptual design, exhibition conception and design, communications programs, culture and communication in public space. *Research areas:* Intercultural impression and effect profiles, company culture and communication in an international context. *Special expertise:* Seminars on business communication and culture, corporate identity, mass communication and marketing.  
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### *Prof. Katrin Günther*

*Teaching areas:* Artistic representation and design. *Research areas:* Artistic drawing, architectural drawing, experimental work in aesthetic education. *Special expertise:* Artistic representation methods in architecture and landscape architecture, visual art.  
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### *Prof. Lydia Haack*

*Teaching areas:* Design and construction, constructive design. *Research areas:* Design methodology, form finding processes, building systems. *Special expertise:* Corporate architecture, serial construction, industrial construction.  
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### *Prof. Karin Kaiser*

*Teaching areas:* Communication design. *Research areas:* Knowledge media design, interdisciplinary work and exploration forms, visual identities. *Special expertise:* Editorial design, corporate design, interdisciplinary projects (knowledge media design, environmental design).  
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### *Prof. Josef Lenz*

*Teaching areas:* Design (particularly housing, museums), construction (particularly low energy houses, passive house stand-

ards). *Special expertise:* Passive house development, solar technology, exhibition design, museum concepts.

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### *Prof. Dr.-Ing. Rolf Neddermann*

*Teaching areas:* Construction management with the following areas: Construction industry, building operation and implementation, construction. *Research areas:* Construction cost planning, cost-effective housing, cost planning for existing buildings, cost and performance accounting for architects and engineers, technical publications, training courses.

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### *Prof. Jochen Rädiker*

*Teaching areas:* Communication design with a focus on corporate identity and corporate design, branding, brand strategy, brand positioning, images, graphical user interface (GUI); typography; presentation techniques; sustainability and financial market communication; design ethics. *Research areas:* Sustainability communications. *Special expertise:* Marketing strategy and brand development, packaging design, global brand management, corporate and financial market communication.

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### *Prof. Leonhard Schenk*

*Teaching areas:* Urban planning and design. *Research areas:* Sustainability in urban planning, particularly: Urban development, mixed-use city districts, housing, alternative forms of living, the future of the civilian city. *Special expertise:* Town planning, urban planning, DGNB certification system for city districts. Awards, including: German Urban Planning Prize, European Urban Planning Prize.

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### *Prof. Eberhard Schlag*

*Teaching areas:* Architecture and design, communication in space, design and space. *Research areas:* Potentials of VR systems for visualization of research results and transfer of knowledge in museums and exhibitions, possibilities for increasing the attractiveness of (regional) museums, medial space strategies. *Special expertise:* Museum and exhibition design, scenography, integrative design of architecture and exhibition, use of (interactive) media, VR systems and the development of museum and exhibition concepts, production of events and exhibition appearances.

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### *Prof. Dr.-Ing. Andreas Schwarting*

*Teaching areas:* History and theory of architecture. *Research areas:* History of 20th Century buildings, construction history of modern architecture, working with modern buildings, historiography of modern architecture. *Special expertise:* Bauhaus architecture, monument preservation of modern buildings.

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### *Prof. Dr.-Ing. Thomas Stark*

*Teaching areas:* Energy efficient construction. *Research areas:* Sustainable energy concepts, solar construction. *Special expertise:* Building energy concepts, building integration of solar technology, sustainability in architecture and urban planning.

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### *Prof. Brian Switzer*

*Teaching areas:* Basics of design, design history, information architecture, design research. *Research areas:* Human-centered design, impact research in orientation and wayfinding, visual systems. *Special expertise:* Research design, corporate design and corporate identity, visual communication, orientation systems (wayfinding).

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### *Prof. Jo Wickert*

*Teaching areas:* Interface design, information design and screen design in communication design. *Research areas:* Alternative interfaces, application design, aspects of the qualification of designers for online and offline media. *Special expertise:* Brand presence for global enterprises, brand workshops and CI/CD (mainly digital), new devices, company websites.

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### *Prof. Valentin Wormbs*

*Teaching areas:* Professor for image design, conventional and digital photography and image design, basics of photography and photographic technology, basic communication design. *Research areas:* Interdisciplinary studies of image spaces, image-text interactions, media theory of image science, image rhetoric. *Special expertise:* Artistic printing processes.

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## Faculty of Civil Engineering

### Prof. Dr.-Ing. Joachim Dach

*Teaching areas:* Environmental technology in the areas of waste management, environmental engineering and chemistry, landfill engineering, contaminated sites and soil management, emission protection. *Special expertise:* Mechanical and biological processing, treatment and recycling of waste, project management in the construction of environmental technical equipment.

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### Prof. Dr.-Ing. Pedro da Silva

*Teaching areas:* Technical building equipment, renewable energies and the rational use of energy. *Research areas:* Sustainable construction, system simulation, rebound effect. *Special expertise:* Energy management, scenario development, organisational development.

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### Prof. Dr.-Ing. Heiko Denk

*Teaching areas:* Solid construction and IT in the construction industry. *Research areas:* Intelligent computing in engineering, practice-oriented software development. *Special expertise:* Pre-stressed concrete construction, reinforced concrete construction, bridge building.

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### Prof. Dr.-Ing. Wolfgang Francke

*Teaching areas:* Steel construction, composite construction and timber engineering. *Research areas:* Experimental structural dynamics, non-linear simulations, overall stability. *Special expertise:* Experimental structural dynamics, non-linear simulations, overall stability, steel halls and multi-storey buildings, steel-concrete composite or wood.

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### Prof. Dr.-Ing. Andreas Großmann

*Teaching areas:* Transport. *Research areas:* Operation and maintenance of transport infrastructure. *Special expertise:* Road maintenance services, systematic road maintenance, substance evaluation of traffic surfaces.

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### Prof. Dr.-Ing. Peter Hirschmann

*Teaching areas:* Hydraulic engineering and management of water resources, hydro-mechanics/hydraulics, ecology and spatial planning, geo-information-systems (GIS). *Research areas:* Ecological water removal, retention, flow in bodies of water and pipes. *Special expertise:* Water usage planning, ecological water removal, water and construction including approval procedures, spatial planning, hydraulics.

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### Prof. Dr.-Ing. Bernd Jödicke

*Teaching areas:* Physics, lighting technology, imaging optical systems. *Research areas:* Physics of didactics, light and lighting in architecture (light and people, light and energy efficiency, light measurement technology), lighting for machine vision. *Special expertise:* Light technology/lighting technology, thermography.

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### Prof. Dr. Roman Kemmler

*Teaching areas:* Technical mechanical and structural design. *Research areas:* Finite element methods in structural mechanics, algorithms for structure optimisation and shape determination of rod and surface structures. *Special expertise:* Finite element modelling, stability analysis, structure optimisation and form-finding.

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### Prof. Dr.-Ing. Sören Knoll

*Teaching areas:* Urban water management (water supply and wastewater technology), ecoinformatics. *Research areas:* Rain water management, immission considerations, hydrometry, fish migration facilities in tide areas. *Special expertise:* Rain

water management, channel network calculation, buildings for urban water management, pumping stations, fish migration facilities.

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### *Prof. Dr.-Ing. Wolfgang Reitmeier*

*Teaching areas:* Geotechnical engineering (foundations, soil mechanics). *Research areas:* Ground Improvement with stabilisation pillars. *Special expertise:* Standing and floating foundations in soft ground, surveying, execution, quality assurance.

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### *Prof. Dr.-Ing. Uwe Rickers*

*Teaching areas:* Construction operations. *Research areas:* Project Management, building information modelling (BIM), decision support in disaster management. *Special expertise:* Project Management, building information modelling (BIM), decision support in disaster management.

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### *Prof. Dr. rer. nat. habil. Benno Rothstein*

*Teaching areas:* Resource management, environmental and earth sciences, energy management, global change. *Research areas:* Renewable energies, energy, sustainable energy concepts, risk and crisis-management, adaptation to climate change, bulk commodity related companies. *Special expertise:* Resource scarcity, future energy, waterways of the future, climate change, vulnerability of infrastructures.

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### *Prof. Dr.-Ing. Hans Peter Schelkle*

*Teaching areas:* Real estate, real estate management, project development. *Research areas:* Organisation in real estate management, life cycle engineering. *Special expertise:* Facility management and organisational consulting, life-cycle management.

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### *Prof. Dr. rer. pol. Maike Sippel*

*Teaching areas:* Sustainable development, sustainable economy, sustainability-oriented business administration, sustainability and society, green cities, project management. *Research areas:* Energy and climate protection in cities/organisations/politics, actors and activities in the local environment, the role of political and legal framework conditions, environmental and economic instruments. *Special expertise:* Energy and climate protection in cities/organisations/politics, actors and activities in the local environment, the role of political and legal framework conditions, environmental and economic instruments.

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### *Prof. Dr.-Ing. Sylvia Stürmer*

*Teaching areas:* Building technology/construction, building physics, building maintenance/construction damage analysis/monument care, representative geometry. *Special expertise:* Examination and evaluation of mineral construction materials (also historical building materials), building materials and procedures in building sanitation or in building protection.

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### *Prof. Dr.-Ing. Horst Werkle*

*Teaching areas:* Structural design and structural dynamics. *Research areas:* Finite element method in structural planning, building and floor dynamics. *Special expertise:* Finite element calculations, structural dynamic calculations, earthquake-resistant construction.

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### *Prof. Franz Zahn PhD*

*Teaching areas:* Reinforced concrete construction, prestressed concrete construction, concrete technology. *Research areas:* Prestressed concrete, composite construction, earthquake protection of buildings. *Special expertise:* Prestressed concrete, composite construction, earthquake protection of buildings.

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## **Faculty of Electrical Engineering and Information Technology**

### *Prof. Dr. Peter Abele*

*Teaching areas:* Basics of electrical engineering, electronic circuits, production and manufacturing techniques of micro-tech-



nology. *Special expertise:* High frequency circuit design, micro-technology, components simulation.

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### *Prof. Dr.-Ing. Gregor Burmberger*

*Teaching areas:* Programming, fundamentals of electrical engineering, automotive bus systems, vehicle engineering (electronics), embedded systems, micro controller, VHDL design.

*Research areas:* Embedded systems, micro-controller systems, automotive bus systems (especially FlexRay), CPLD, FPGA and ASIC design, circuit design, processor and system architectures.

*Special expertise:* Bus systems, FlexRay automotive electronics, circuit board layout, system development, FPGA boards.

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### *Prof. Dr. rer. nat. Matthias Fertig*

*Teaching areas:* Electrical engineering, digital technology. *Research areas:* optical simulation procedures, silicon photonics.

*Special expertise:* Microprocessor development, optical detectors in CMOS SOI, object-oriented programming, VLSI design, computer architecture, project management.

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### *Prof. Dr.-Ing. Jürgen Freudenberger*

*Teaching areas:* Transmission technology, digital technology, signal processing, communication systems. *Research areas:* Coding theory, transmission technology, signal processing, VLSI design in signal processing and encoding. *Special expertise:* Matlab, C/C++, Verilog, software and hardware development for DSP systems, radio communication with Bluetooth, WLAN, GSM, UMTS, LTE, speakerphone and voice control systems, car multimedia.

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### *Prof. Dr. Wilhelm Fromm*

*Teaching areas:* Automation technology, process automation. *Research areas:* Protection and control technology in high-voltage installations. *Special expertise:* Automation and protection technology, virtual systems for automation tasks.

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### *Prof. Dr. Harald Gebhard*

*Teaching areas:* Communication and media technology, communications networks, electronic navigation and positioning. *Research areas:* Local GNSS services (GPS, GLONASS and Galileo). *Special expertise:* IP protocols and networks, real-time multimedia in IP-based networks, real-time transmission of GNSS data in IP-based networks.

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### *Prof. Dr. Manfred W. Gekeler*

*Teaching areas:* Power electronics, electric drive technology, energy conversion. *Research areas:* The power electronics, pulse inverter, soft switching, pulse power. *Special expertise:* Power electronics, frequency converter, solar inverters, soft switching, pulse power and Power Factor Correction (PFC), power supplies, switch mode power supplies (SMPS).

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### *Prof. Dr. habil. Thomas Göllinger*

*Teaching areas:* Energy economics, economic fundamentals, organisation, sustainable economy, especially energy and mobility. *Research areas:* Ecological economics, evolutionary economics, innovation management, interdisciplinary sustainability research and sustainability management, systemic management, energy management, e-mobility, path dependency. *Special expertise:* Systemic moderation, modelling and networking tools, system dynamic modelling, operational and local climate protection and energy strategies, systemic innovation.

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### *Prof. Dr. Martin Häfele*

*Teaching areas:* Basics of electrical engineering, fundamentals of analogue systems, circuits of communications engineering, design and testing of analogue circuits. *Special expertise:* Design of integrated broadband circuits, semiconductor components for high frequency circuits, production management and production techniques in electronics production.

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### *Prof. Dr. Werner Kleinhempel*

*Teaching areas:* Signal processing, simulation, computer-aided circuit design. *Research areas:* Design, conception and simulation of technical messaging systems, development of methods of digital signal processing (filter algorithms, procedures for spectral analysis, multi-rate signal processing, design and implementation of digital filters. *Special expertise:* Design, concept and realisation of digital signal processing components for radio systems and radar systems.

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### *Prof. Dr. Alexander Krupp*

*Teaching areas:* Process automation, programmable logic controller (PLC), programming. *Research areas:* Testing and verification procedures, simulation, standardisation/modularisation. *Special expertise:* Testing and verification procedures, standardisation

in process of development, design and documentation, model-based-X, FDA CFR Part 11, GAMP, SystemVerilog, Simulink, UML.

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### *Prof. Dr. Florian Lang*

*Teaching areas:* Sensors, applied physics, mechatronic systems.

*Special expertise:* Automotive sensors, micro-mechanical sensors, optical measurement techniques, laser physics, laser-matter interaction, project management.

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### *Prof. Dr. Irene Lau*

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### *Prof. Dr. Burkhard Lehner*

*Teaching areas:* Computer science, programming languages, software engineering. *Research areas:* Modern software development, graphical user interfaces, GPU programming, computer graphics, computational geometry, optimisation methods, computer and art, tetrahedral networks, optical 3D measurement technology. *Special expertise:* CAD/CAM in dental medicine.

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### *Prof. Dr. Richard Leiner*

*Teaching areas:* Micro-controllers, graphical programming languages (in English), CAE. *Research areas:* Application of photovoltaic and fuel cells in boats and associated energy management. *Special expertise:* Energy management in boats, measuring data acquisition via Internet, LabVIEW, CAE (analogue).

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### *Prof. Dr.-Ing. Heinz Rebholz*

*Teaching areas:* Power electronics, energy conversion, electromagnetic compatibility (EMC). *Research areas:* Efficient DC/DC converter and inverter, EMC optimized power electronics, in-vehicle networks and topologies. *Special expertise:* DC/DC converter, EMC optimised circuit design, filter design, energy storage.

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### *Prof. Dr. Johannes Reuter*

*Teaching areas:* Control technology, simulation. *Research areas:* Control of fast switching actuators, in particular solenoid

valves; autonomous mobile systems, focus: Target tracking and data association; Sensorik and sensor modelling; Optimisation of operation strategies in uncertain circumstances. *Special expertise:* Non-linear control procedures of mechatronic systems, probabilistic filtering and data assignment (KF, PDAF, PDAB, MHT), modelling and simulation of dynamic systems for control and simulation.

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### *Prof. Dr. Christoph Schick*

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### *Prof. Dr. Michael Striebel*

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### *Prof. Dr.-Ing. Gunter Voigt*

*Teaching areas:* High-voltage technology, electromagnetic compatibility (EMC), energy transmission and distribution, measuring technology. *Research areas:* Optimisation of insulation systems, methods of high voltage test and measurement technology. *Special expertise:* Investigation of insulation systems, high voltage testing and measurement technology.

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### *Prof. Dr. Matthias Werner*

*Teaching areas:* General business administration, staff management, operational organisation, project management, performance management, international procurement management. *Research areas:* Measurement and improvement of business performance, business excellence in organisations, business partnerships, strategic management. *Special expertise:* Business management, quality management, EFQM, esp. TQM, Supply Chain Management, Purchasing, Project Management.

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### *Prof. Dr.-Ing. Wolf-Stephan Wilke*

*Teaching areas:* Industrial engineering (operating economic basic subjects), investment goods marketing. *Special expertise:* Product

and innovation management, logistics, post and parcel distribution, energy technology.

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## **Faculty of Computer Science**

### *Prof. Dr. Oliver Bittel*

*Teaching areas:* Programming technology, algorithms and data structures, autonomous robots. *Research areas:* Navigation method for mobile autonomous robots. *Special expertise:* Software architectures for robot controls, planning and localisation method for mobile robots, environment mapping.

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### *Prof. Dr. Marko Boger*

*Teaching areas:* Software architecture, software engineering, modern programming languages, entrepreneurship, project management. *Research areas:* Model-driven software development (MDS), graphical modelling tools, domain-specific language (DSL). *Special expertise:* MDS, UML, Scala, Xtext, Xtend, Spray.

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### *Prof. Dr. Renato Dambe*

*Teaching areas:* Medical documentation and terminology, fundamentals of medicine, medical product law, IT project management, software and system modelling, computer networks and communication systems, operation of IT systems in the health care sector. *Research areas:* Interoperability in healthcare, IT

security in the health care sector. *Special expertise:* Medicine, interface standards in health care (HL7, DICOM, IHE device interface).

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### *Prof. Dr. Heiko von Drachenfels*

*Teaching areas:* Software development. *Special expertise:* Programming technology, object orientation, model-driven software development, system programming, C, C++, Java.

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### *Prof. Dr. Oliver Eck*

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### *Prof. Dr. Markus Eiglsperger*

*Teaching areas:* Web technologies, software quality assurance, mathematics. *Research areas:* Visualization of diagrams, software visualization, modern software architectures. *Special expertise:* Software architecture, software development processes, software visualisation, conception and implementation of web applications.

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### *Prof. Dr. Wilhelm Erben*

*Teaching areas:* Statistics, logic(programming), meta-heuristics for optimisation problems, data mining. *Research areas:* Time-tabling with the help of evolutionary algorithms or other meta-heuristics. *Special expertise:* Timetabling/scheduling, meta-heuristics, statistics with Excel.

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### *Prof. Dr. Matthias Franz*

*Teaching areas:* Pattern recognition and image processing. *Research areas:* Image processing, machine learning, cognitive systems, web analysis, deep learning. *Special expertise:* Image and texture modeling, automatic design of image processing systems, web analysis in pictures, machine learning on images, statistics of natural scenes, optical flow analysis.

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### *Prof. Dr. rer. nat. habil. Jürgen Garloff*

*Teaching areas:* Analysis, numerical mathematics. *Research ar-*



*Teaching areas:* Global optimisation, scientific computing with automatic verification of results, matrix analysis, robust control, numerical linear algebra. *Special expertise:* Rounding error checking, matrix analysis, robust control, polynomial equation and inequality systems, restricted global optimisation.

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### *Prof. Dr. Michael Grütz*

*Teaching areas:* Operational system analysis/system planning, operational system research/operations research/logistics/information systems of public services (hospital information systems) based on a planning game. *Research areas:* Development of computer-aided optimisation methods and models (operations research, expert systems, simulation) in particular in the area of personnel deployment planning, decision support systems in the area of health economics/hospital care. *Special expertise:* Development of a computer-based solution for intelligent use of planning for apprentices, trainees and interns (relocation planning), development of a program package for computer-aided selection and management of applicants for jobs, system analysis in a small or medium-sized business for the automation of inspection systems.

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### *Prof. Dr.-Ing. Oliver Haase*

*Teaching areas:* Distributed systems and software engineering. *Research areas:* Static code analysis to thread safety, privacy in distributed systems. *Special expertise:* Concurrent programming, static code analysis, communication in distributed systems.

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### *Prof. Dr. Ulrich Hedtstück*

*Teaching areas:* Discrete simulation, algorithms and data structures, theoretical computer science, data analytics. *Research areas:* Complex event processing, discrete simulation. *Special expertise:* Complex event processing, event-oriented simulation, process modelling, rule-based systems, artificial intelligence.

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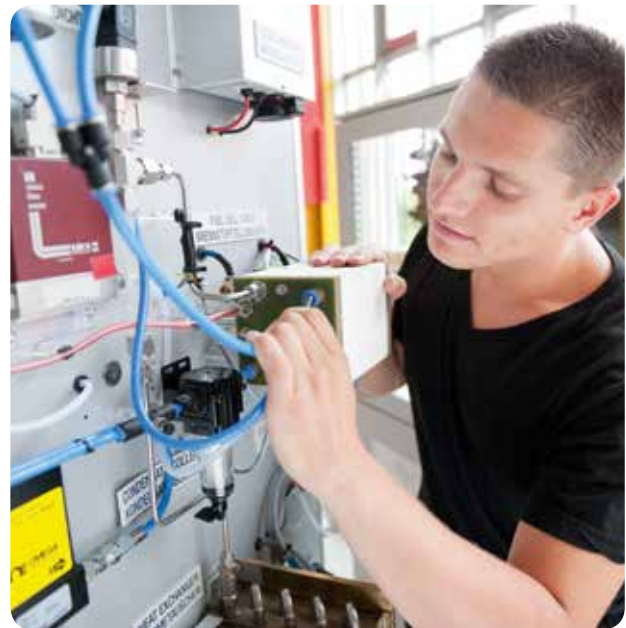
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tion law, employee invention law. *Special expertise:* Trademark law, design law, patent law, utility model law, copyright law, competition law, employee invention law, press law, food labelling law as a result of over 13 years of work as a business lawyer in these areas of law.

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