



## DISSERTATIONEN AN DER TU GRAZ

1. Mai bis 31. Oktober 2017 (soweit bekannt gegeben)

## Fakultät für Bauingenieurwissenschaften

<b>Della Pietra, Regina:</b>	Integralisierung von Bestandsbrücken
<b>Dorfmann, Clemens:</b>	Flow Phenomena in a Reservoir investigated by Field Measurements and Numerical Modelling
<b>Gfrerer, Michael Helmut:</b>	Vibro-Acoustic Simulation of Poroelastic Shell Structures
<b>Hadl, Philipp:</b>	Zum besseren Verständnis der Streuung des Zugtragverhaltens von stahlfaserbewehrtem Normalbeton und Ultra-Hochleistungsbeton
<b>Kim, Hoang Huy:</b>	A Systematic Mix Design Approach for Ultra High Performance Fibre Reinforced Concrete
<b>Konrad, Florian:</b>	Transformation Dynamics of Amorphous to Crystalline Carbonates
<b>Omerovic, Samir:</b>	Higher-order finite element methods for implicitly defined interface problems
<b>Ringhofer, Andreas:</b>	Axially Loaded Self-Tapping Screws in Solid Timber and Laminated Timber Products
<b>Sturm, Peter:</b>	Maßnahmenoptimierung im untergeordneten Straßennetz basierend auf automatisiert bewerteter Straßenbedeutungen
<b>Turner, Katrin:</b>	Ganzheitliche Betrachtung zur Ermittlung der Mindestbewehrung für fugenlose Wasserbauwerke
<b>Zyoud, Shaheer:</b>	Multi-criteria decision making techniques for water loss management in water supply networks of developing countries

## Fakultät für Maschinenbau und Wirtschaftswissenschaften

<b>Bader, Pascal:</b>	Experimental and Numerical Investigations of Transition and Relaminarization of Boundary Layers
<b>Husmann, Sven Moritz:</b>	Investigation of in-situ desulfurization as process step for sulfur removal from synthesis gas derived from thermal gasification of biomass
<b>Kies, Antonius:</b>	A contribution to the analysis of fuel efficiency measures for heavy-duty vehicles
<b>Kiesling, Constantin:</b>	Analyse von Diesel-Gas Dual Fuel Brennverfahren für schnelllaufende Großmotoren
<b>Lang, Harald:</b>	Die methodische Integration empirischer Analysen in die frühen Phasen eines Entwicklungsprozesses
<b>Mortsch, Martin:</b>	Deburring and descaling of hollow shafts
<b>Pichler, Martin:</b>	Model Predictive Control for Heating in Residential Buildings – PV-led heat pump operation in a single family house
<b>Rainer, Andreas:</b>	Iterative Versuchsplanung zur effizienten, modell-basierten Optimierung von Verbrennungsmotoren im relevanten Ausgangsbereich
<b>Rohrhofer, Mario:</b>	Dynamic Simulation of a Domestic Refrigeration Appliance
<b>Schnellbach, Adam:</b>	Fail-operational automotive systems
<b>Seifriedsberger, Johannes:</b>	Analyse und Optimierung des Verbrennungsgeräuschs beim Pkw-DI-Dieselmotor
<b>Steineder, Katharina:</b>	The influence of C and Mn and the heat treatment on the mechanical properties of Medium-Mn-steels
<b>Wichtl, Rudolf:</b>	Reibleistungsuntersuchungen an Pkw-Dieselmotoren unter realen Betriebsbedingungen

## Fakultät Elektrotechnik und Informationstechnik

<b>Danninger, Alois:</b>	Online Calculation of Diesel Engine Torque
<b>Feichtenhofer, Christoph:</b>	Deep Learning for Video Recognition
<b>Höll, Thomas:</b>	Cultural Heritage Acquisition: Obtaining Accurate Surface Geometry and Radiometry in the Wild
<b>Khan, Hassan Noor:</b>	Measurement Based Backscatter RFID System Analyzer for Tag Localization
<b>Mohr, Martin:</b>	Finite Element Based Circuit Models of Electrical Machines in Multi-Body-Dynamics
<b>Sinnhofer, Andreas Daniel:</b>	Advances of the Pre-Personalization Process for Secure Embedded Systems
<b>Weissnegger, Ralph:</b>	Design and Verification Process for Safety-Critical Embedded Systems in the Automotive Domain

## Fakultät für Mathematik, Physik und Geodäsie

<b>Albert, Christopher:</b>	Hamiltonian Approach to Resonant Transport Regimes in Non-Axisymmetrically Perturbed Tokamak Plasmas
<b>Allmaier, Klaus:</b>	Computation of neoclassical transport in stellarators using a Monte Carlo method with reduced variance



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<b>Eicher, Barbara:</b>	Investigation of Transbilayer and Intraleaflet Coupling Mechanisms in Asymmetric Lipid Membranes
<b>Kapper, Gernot:</b>	Impact of finite plasma collisionality on the current drive efficiency in tokamaks and stellarators
<b>Nachtnebel, Manfred Georg:</b>	In situ experiments with polymeric materials in the environmental scanning electron microscope
<b>Obersteiner, Veronika:</b>	Computational Modeling of Organic-Inorganic Nanomaterials
<b>Tümbek, Levent:</b>	Nucleation and thin film growth of the rod-like molecules hexaphenyl and pentacene on mica substrates

### Fakultät für Technische Chemie, Verfahrenstechnik und Biotechnologie

<b>Baldauf-Sommerbauer, Georg Franz:</b>	Reductive calcination of mineral iron carbonate and mineral magnesium carbonate
<b>Bodner, Merit:</b>	Degradation Phenomena in Polymer Electrolyte Fuel Cells
<b>Edinger, Stefan:</b>	Solution-based deposition of zinc oxide thin films using chemical bath deposition and spray pyrolysis
<b>Damanik, Marini:</b>	Secondary Lipid Oxidation: Analysis of Lipid Oxidation and Antioxidants Interaction in Coffee Oil and Some Edible Oils
<b>Eibinger, Manuel:</b>	A detailed view on enzymatic cellulose deconstruction: In situ real time visualization of cellulases and auxiliary activities on the cellulose surface
<b>Gatternig, Thomas:</b>	Recombinant Expression, Purification and Characterization of a Host Cell Protein
<b>Gübitz, Brigitte:</b>	Risk Management in Quality by Design
<b>Hirz, Melanie:</b>	Tuning of <i>Pichia pastoris</i> for the Expression of Membrane Proteins and Small Peptides
<b>Jagiello, Lukas Andreas:</b>	Separation and thickening of pulp fibers and fines in the lab scale and application thereof
<b>Jajcinovic, Marina:</b>	Strength of individual fibres and fibre to fibre joints – influence of the pulp type, environmental conditions and the degree of refining
<b>Kaltenegger, Ingrid:</b>	Chemical Leasing. Can a new Business Model provide more Sustainability to Chemical Industry?
<b>Krainer, Johanna:</b>	Fabrication of CMOS Integrated Gas Sensor Devices Based on Tungsten Oxide Nanowires
<b>Müller, Bernhard:</b>	Fluoroionophores for Optical Ion Sensing – From Synthesis to Applications
<b>Niegelhell, Katrin:</b>	Interactions at Polysaccharide Surfaces
<b>Painer, Daniela:</b>	Modern tools for process intensification: Reactive Separations
<b>Rumpler, Markus:</b>	A single-port system for continuous optical glucose monitoring: From separate components to clinical studies
<b>Uitz, Marlena:</b>	Von flüssig zu fest – Alterungsuntersuchungen an kommerziellen Lithium-Ionen-Batterien und Charakterisierung von keramischen Festkörperelektrolyten
<b>Zitz, Rainer:</b>	Funktionalisierung von Silylligandensystemen und deren Anwendung in der Oligosilanyllanthanidsynthese

### Fakultät für Informatik und Biomedizinische Technik

<b>Ayyal Awwad, Aiman:</b>	Automated Bidirectional Languages Localization Testing for Android Apps Development
<b>Bodenlenz, Manfred:</b>	Dermal Open Flow Microperfusion (dOFM) Design, Evaluation, Research
<b>Breitwieser, Christian:</b>	A Tactile Hybrid Brain-Computer Interface Utilizing a Common Implementation Platform
<b>Derler, David:</b>	A Modular Framework for Privacy-Enhancing Signatures: Generalizations, Extensions, and Novel Building Blocks
<b>Geigl, Florian:</b>	Random Surfers as Models of Human Navigation on the Web
<b>Grimus, Margarete:</b>	Enhancing Mobile Learning in a Developing Country (Sub-Saharan Africa) Experiences in a High School in Ghana
<b>Jeanquartier, Fleur Eleonore:</b>	Visualization Support For In Silico Medicine
<b>Jehan, Seema:</b>	Model-based Testing and Debugging of SOA Business Processes
<b>Khalil, Mohammad:</b>	Learning Analytics in MOOCs
<b>Kopeinik, Simone:</b>	Applying Cognitive Learner Models for Recommender Systems in Sparse Data Learning Environments
<b>Kowald, Dominik:</b>	Modeling Activation Processes in Human Memory to Improve Tag Recommendations
<b>Pirker, Johanna:</b>	Immersive and Engaging Forms of Virtual Learning
<b>Reiter, Andreas:</b>	Hybrid Edge Computing – Enable Processing of Sensitive Data in Mobile Edge Computing Scenarios
<b>Softic, Selver:</b>	Knowledge Discovery through Mining and Profiling from Semi-Structured Sparse Text Artifacts Using Semantic Technologies and Linked Data for Education and Research
<b>Spreitzer, Raphael Christian:</b>	Enhancements for Group Signatures and Side-Channel Attacks on Mobile Devices