DISSERTATIONEN AN DER TU GRAZ

1. Mai bis 31. Oktober 2019 (soweit bekannt gegeben)

Fakultät für Bauingenieurwissenschaften

Buchegger, Blasius:	Flanking sound transmission in coupled panels of cross-laminated-timber
Füger, Anja:	Calibration of elemental and isotope proxies by inorganic precipitation experiments
Novak, Friedrich:	Simplified remaining service life calculation of orthotropic steel decks at road bridges and strengthening with concrete
Pichler, Patrick:	Numerical analysis of the influence of initial hydraulic boundary conditions on the infiltration behaviour and stability of unsaturated soil slopes

Fakultät für Maschinenbau und Wirtschaftswissenschaften

Albert, Johannes:	Entwicklung und Untersuchung einer Absorptionskältemaschine für die Nutzung der Abwärme einer Brennstoffzelle
Arnitz, Alexander:	Experimentelle und simulationsgestützte Analyse einer thermisch angetriebenen Lösungsmittelpumpe für NH3/H2O-Absorptionskälteanlagen
Aßmus, Kevin:	Vorauslegung und Analyse eines pilotstrahlgezündeten Gas-Diesel-Brennverfahrens mit Hochdruck-Gas-Direkteinblasung für schnelllaufende Großmotoren
Friessnig, Matthias:	The role of the Maker Movement in start-up product creation
Grüneberger, Patrick:	Analysis methods for Irregular Combustion events in SI engines
Hackl, Andreas:	Enhanced Tyre Modelling for Vehicle Dynamics Control Systems
Hiesmayr, Johannes:	Experimental Investigation and Simulation of Gaseous Emissions and Fuel Consumption in Real World Driving Scenarios for Two-Wheeler-Applications
Irrenfried, Christoph:	DNS and experimentally based modelling of convective turbulent near wall heat transfer at high Prandtl numbers
Malin, Maximilian:	Control Strategies for Highly Transient Dual Fuel Engine Operation
Piasecki, Conrad:	Evaluation of Mobile Emission Measurement Technology in the Motorcycle Segment: A Novel Approach in the Field of Emission Simulation with Inventory Models
Schacht, Hans-Juergen:	Entwurf und Untersuchung eines neuartigen elektrischen Antriebs mit VKM-Unterstützung für ein Zweirad-Stadtfahrzeug
Tilz, Anton:	Auswirkung wesentlicher Zündparameter auf die Verbrennung in Großgasmotoren
Vystejn, Jan:	Increasing numerical simulation accuracy through modular architecture automation
Weinländer, Christof:	Processing Biogas for the Use in Solid Oxide Fuel Cells
Zinner, Christian:	Downsizing of 4-stroke high speed engines in recreation vehicles

Fakultät für Elektrotechnik und Informationstechnik

Grubmüller, Michael:	Voltage Probe Circuit Technology for Measurements in Power Electronics
Hackl, Herbert:	On the Simulation of Radiated Emission of Integrated Circuits According to the CISPR 25 ALSE Test
Kalcher, Michael:	Fully Integrated Mixed-Signal RF-Domain Transmitter-Induced Self-Interference Cancellation for Advanced Wireless Cellular Mobile Transceivers
Kaltenbacher, Stefan:	Water Distribution Networks: Modeling, Observation, Roughness Identification and Its Application
Kleindienst, Martin:	Control Concepts for Silicon Wafer Stripping and Cleaning Equipment
Kranawetter, Klemens:	Modelling, Simulation and Control of Highly Dynamic Automotive Test Bed Components
Leitner, Mario:	Praxisnahe Resilienzsteigerung der Mittelspannungsebene in bestehenden urbanen und ländlichen Netzen
Plank, Hannes:	Location-aware optical communication with Time-of-Flight sensors
Rumetshofer, Johannes:	Model-based Control of Dedicated Hybrid Drivetrains
Steffan, Christoph:	Monolithic Ultra-Low Power Solar Harvester with High Dynamic MPPT Algorithm
Zöhrer, Matthias:	Speech enhancement using deep neural beamformers

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1. Mai bis 31. Oktober 2019 (soweit bekannt gegeben)

Fakultät für Mathematik, Physik und Geodäsie

Dohr, Stefan:	Distributed and Preconditioned Space-Time Boundary Element Methods for the Heat Equation
Hüning, Svenja:	Geometric and algebraic analysis of subdivision processes
Lendl, Stefan:	Generalizations of Classic Combinatorial Optimization Problems on Graphs and Matroidal Structures: Algorithms and Complexity
Moder, Thomas:	Techniques for Calibrating Pedestrian Dead Reckoning Parameters using Smartphones
Omerovic, Sanela:	Fitting Mixtures of Generalized Nonlinear Models
Preischl, Michael Julius:	Progress in Risk Theory and Dependence Modeling
Schlager, Christoph:	Generation of high-resolution wind fields from WegenerNet data and a spatial evaluation of regional climate models

Fakultät für Technische Chemie, Verfahrenstechnik und Biotechnologie

Bergna, Alessandro:	Understanding the structure and function of tomato plant endophytes across generations
Blesl, Julia:	Synthesis and Biological Characterization of Teraryl-based alpha-Helix Mimetics
Hanghofer, Isabel:	Lithium-ion Dynamics in Highly Conductive Solid Electrolytes
Hörmann, Theresa Ruth:	Development of a Continuous Manufacturing Line for the Tableting of Hot-Melt Extruded Pellets
Lepak, Alexander:	Elucidation of glycosyltransferase specificities for biocatalysis
Lunghammer, Sarah:	Kernresonanzuntersuchungen zur Diffusion von Na-Ionen
Obermeier, Melanie Maria Gisela:	Prospecting the Sphagnum microbiome for agriculture and medicine
Posch, Patrick:	Ion Dynamics in Oxide-Type Solid Electrolytes and Electrode Materials
Reinisch, Tristan:	Combustion Generated Particle Measurement: Morphology, Methods and Harsh Environments
Schmallegger, Max:	Radicals in Photochemical Transformations: Models for Biological Pathways and Intermediates in Chemical Synthesis
Stadler, Eduard Maximilian:	Investigation of Light Induced Processes with In-Situ Irradiation in NMR and UV-Vis Spectroscopy
Sulzer, Philipp:	Preparation and Characterization of Optical Chemical Sensor Systems for use in Organic Solvents
Toplak, Marina:	Flavin-dependent reactions in carbohydrate metabolism and mitochondrial electron transport
Wagner, Bernhard:	Process development on a continuous production system for direct filling of hard gelatin capsules
Weißl, Michael:	Cellulose xanthate for advanced cellulose (nano)materials

Fakultät für Informatik und Biomedizinische Technik

Ali, Zulfiqar:	Mobile Application Testing Using Behavior-Driven Development Based Specifications for Android Platform
Geymayer, Thomas:	Exploring the information worker's space
Ramacher, Sebastian:	Cryptographic Schemes with Enhanced Security Properties and Post-Quantum Instantiations
Riffnaller-Schiefer, Andreas:	A subdivision approach to isogeometric analysis
Schrunner, Stefan:	Pattern Recognition in Analog Wafer Test Data – A Health Factor for Process Patterns
Sharif, Nauman:	Knowledge Discovery in E-Learning with Social Media
Wachtler, Josef:	Interaction-based Support of Selective Attention in Online Courses