



## DISSERTATIONEN AN DER TU GRAZ

1. Mai bis 31. Oktober 2018 (soweit bekannt gegeben)

## Fakultät für Architektur

<b>Jovanovic, Aleksandar:</b>	Geothermal Use in Cities: Comparative Analysis from Four Different Countries
<b>Madadi Kandjani, Elham:</b>	Public Place, Identity and Cultural Values in the Development of Urban Spaces
<b>Stocker, Armin:</b>	Die Dimension des Städtischen in der Literatur. Urbane Räume in narrativen Textgattungen

## Fakultät für Bauingenieurwissenschaften

<b>Balwan, Mohsin:</b>	Modelling Red Time Counters at Actuated Traffic Signals
<b>Leutnant, Dominik:</b>	Monitoring, Analysis and Modelling of Urban Stormwater Quality
<b>Moser-Parapatits, Alexander:</b>	Forecasting Travel Demand Growth Dynamics in Indian Cities with Limited Data Resources
<b>Silvestru, Vlad Alexandru:</b>	Composite Structural Glazing Systems – Towards transparent building envelopes with composite structural behaviour between glass panes and metal framing by adhesive bonding
<b>Stammeier, Jessica Alexandra:</b>	The Precambrian-Cambrian (R)Evolution – Insights from the Kazakh Microcontinent
<b>Steffelbauer, David Bernhard:</b>	Model-Based Leakage Localization in Water Distribution Systems
<b>Theiler, Werner:</b>	Entwicklung und Beschreibung des Tragverhaltens von modularen Türmen aus Beton für Windenergieanlagen

## Fakultät für Maschinenbau und Wirtschaftswissenschaften

<b>Beyer, Michael:</b>	Eindimensionale Berechnungsmethoden zur Auslegung von Lüftungsanlagen in Tunneln unter besonderer Berücksichtigung dreidimensionaler Strömungseffekte
<b>Brillinger, Markus:</b>	3D-Druck von Natriumacetat-Trihydrat als Ergebnis eines konsequenten Entwicklungsprozesses
<b>Böhm, Thomas:</b>	Corporate Makerspaces – Operation Models, Implementation and Contributions to Organizational Learning
<b>Heldmann, Stefan:</b>	Big data analytics for the volatile world – New methodology and proof of concept for sales forecasting in an industrial case study
<b>Koch, Volker:</b>	Kompetenz, Persönlichkeitseigenschaften, Motivation und Erfolg von EinkäuferInnen: Empirische Untersuchung von Konstruktzusammenhängen
<b>Kotnig, Claudio:</b>	Analysis and conceptual design of the cryogenic system of the Future Circular Collider
<b>Neubacher, Dietmar:</b>	Modeling and Simulation of Socio-Technical Systems – A Holistic Approach to Analyze, Design and Control the Interactions between Technical and Social Systems
<b>Neubauer, Raphael:</b>	Desulfurizing Liquid Fuels from Petroleum Feedstocks to Operate SOFC-based Auxiliary Power Units
<b>Oberhauser, Matthias:</b>	The Virtual Reality Flight Simulator Development, Evaluation, and Demonstration of a Tool for Human Factors Engineering
<b>Pointner, Alexander:</b>	Synchronizing production capacity with market demand upswings in a lean production system
<b>Ramskogler, Claudia:</b>	Surface modification of titanium alloys for orthopaedic implants
<b>Ratzberger, Reinhard:</b>	Investigation of Robust Close-Coupled Diesel Exhaust Aftertreatment for Passenger Cars with 12 V and 48 V Architecture
<b>Stanzer, Stefan:</b>	Expansionsmaschine für ein mobiles Abwärmenutzungssystem
<b>Suckart, Dominik Georg:</b>	Phenomenology and Modelling of Flame-Wall-Interactions in Spark-Ignition Engines
<b>Wiednig, Christopher:</b>	Aerodynamic Performance of Turbine Center Frames under the Presence of High-Pressure Turbine Rotor Purge Flows
<b>Zerobin, Stefan Franz:</b>	Aerodynamic Performance of Turbine Center Frames under the Presence of High-Pressure Turbine Rotor Purge Flows

## Fakultät für Elektrotechnik und Informationstechnik

<b>Bakr, Mustafa Safaa Ahmed:</b>	Multi-Mode Resonatorfilter und Antennen
<b>Ebner, Wolfgang:</b>	Ein modellbasierter Ansatz für die Auslegung und Regelung eines elektro-hydraulischen Systems für Automatikgetriebe
<b>Kirchengast, Martin:</b>	Control Allocation Techniques for Redundantly Actuated Dynamic Systems
<b>Müller, Christoph:</b>	Dielektrisches Verhalten von hochtemperaturbeständigen Verbundmaterialien
<b>Ochsenberger, Petra:</b>	Der Kapitalstock der europäischen Elektrizitätswirtschaft: Optionen für die zukünftige Transformation
<b>Rupp, Astrid:</b>	Trajectory Planning and Formation Control for Automated Driving on Highways
<b>Sleik, Roland:</b>	System Level Reliability Testing Under Application Stress Conditions
<b>Tanzer, Thomas:</b>	Noise and Loss Reduction of Power Transformers by Classification of Electrical Steel Coils



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### Fakultät für Mathematik, Physik und Geodäsie

<b>Aschauer, Rudolf:</b>	Qualität als Schlüssel zur Rechtsrelevanz bei der Übernahme von Geodaten
<b>Faccinelli, Martin Mario:</b>	Defect Complexes in Proton Implanted Silicon
<b>Harivyasi, Shashank Shekhar:</b>	Employing Ab-initio Methods to Study Distinct Scenarios of Adsorption of Organic Molecules on Inorganic Surfaces
<b>Klinger, Beate:</b>	A contribution to GRACE time-variable gravity field recovery: Improved Level-1B data pre-processing methodologies
<b>Moßhammer, Michael:</b>	Phase Transitions of Random Graphs on Surfaces
<b>Planitzer, Stefan:</b>	Sums of unit fractions, Romanov type problems and Sequences with Property P
<b>Wruß, Elisabeth:</b>	On the Reliability and Predictive Power of Density Functional Theory for the Description of Inorganic/Organic Interfaces

### Fakultät für Technische Chemie, Verfahrenstechnik und Biotechnologie

<b>Askarishahi, Maryam:</b>	Towards Full-Physics Simulation of Wet Fluidized Beds
<b>Biedermann, Judith Maja:</b>	Synthesis and Electrochemical Studies of Aryl-Substituted Group 14 Compounds
<b>Albouchi, Abdullatif:</b>	Hydroxymethyl-Substituted Furan Derivatives in Coffee: Its Analysis, Formation Kinetics, Exposure, and Mitigation.
<b>Breuer, Stefan:</b>	Li <sup>+</sup> - und F <sup>-</sup> -Ionen-dynamik in nanokristallinen Festkörperionenleitern für moderne Energiespeichersysteme
<b>Burian, Max:</b>	Nanostructure of organic/inorganic photosystems
<b>Gourinchas, Geoffrey:</b>	Functional Cross-talk of Sensor and Effector Modules in Phytochrome Activated Diguanylyl Cyclases
<b>Grimmer, Ilona:</b>	Development and optimization of precious metal free electrodes for alkaline fuel cells
<b>Höfler, Sebastian Franz:</b>	Emerging Photovoltaic Technologies for Integrated Photoelectrochemical Hybrid Energy Systems: From Lead-Free Perovskites Towards Non-Fullerene Organic Solar Cells
<b>Jammerneegg, Katrin:</b>	Biodegradable composites and pastes for 3D-printing
<b>Kreimer, Manuel:</b>	Continuous purification and drying of pharmaceuticals with regard to material properties and process stability
<b>Mahne, Nika:</b>	Singlet Oxygen in Non-Aqueous Battery Chemistries
<b>Pirolt, Franz:</b>	Inverse ISAsomes – From Aqueous to Oleaginous Investigation and modification of liquid crystal systems
<b>Radebner, Judith:</b>	Germanium and Tin Based Photoinitiators
<b>Rammerstorfer, Elisabeth:</b>	The Kinetics and Mechanisms of Fouling in Crude Oil Heat Transfer
<b>Scherübel, Peter:</b>	Mysterium Methanol – ein ständiger Begleiter im Obstbrand?
<b>Schloffer, Daniel:</b>	Elektrochemische Abscheidung und Auflösung von Magnesium für wiederaufladbare Magnesiumionenbatterien
<b>Schwarz, Elisabeth:</b>	Design and synthesis of phosphorus stabilised low valent group 14 elements
<b>Staudinger, Christoph:</b>	Optical High Performance Sensor Materials for Oceanography
<b>Xia, Wenmin:</b>	The role of abhydrolase domain containing 15 (ABHD15) in lipid metabolism

### Fakultät für Informatik und Biomedizinische Technik

<b>Aigner, Christoph Stefan:</b>	Magnetic resonance RF pulse design for simultaneous multislice imaging
<b>Antensteiner, Doris:</b>	Fusion of Light Field with Photometric Stereo
<b>Armagan, Anil:</b>	Image-Based Camera Localization by Leveraging Semantic Information in Urban Environments
<b>Di Sciascio, Maria Cecilia:</b>	A User-Driven Approach to Exploratory Search and Enrichment with Social and Quality Features
<b>Edelsbrunner, Johannes:</b>	Domain Specific Methods for Procedural Modeling of Historical Architecture
<b>Groß, Hannes:</b>	Domain-Oriented Masking – Generically Masked Hardware Implementations
<b>Kerbl, Bernhard:</b>	Load Balancing for Hardware and Software Rendering on the Graphics Processing Unit
<b>Luhana, Kirshan Kumar:</b>	Deployment of Open Source Multi-language Apps on Google Play
<b>Mutlu, Belgin:</b>	Methods to Recommend and Personalize Visualizations
<b>Schlögl, Matthias:</b>	Spatio-Temporal Image Reconstruction for Accelerating Dynamic MRI Applications using Variational Priors
<b>Webb, Bridgette:</b>	Post-mortem MR imaging techniques for the assessment of sudden cardiac death: Quantitative and angiography-based approaches