DISSERTATIONEN AN DER TU GRAZ
1. November 2010 bis 30. April 2011 (soweit bekannt gegeben)

Fakultät für Architektur
Stein, Isa: Der Versuch einer authentischen Betrachtung des sozialen Wohnbaus an zwei Beispielen von Roland Rainer
Zegarac Leskovar, Vesna: Development of design approach for the optimal model of an energy-efficient timber house

Fakultät für Bauingenieurwissenschaften
Nagler, Loris: Simulation of Sound Transmission through Poroelastic Plate-like Structures
Nasekhian, Ali: Application of Non-probabilistic and Probabilistic Concepts in Finite Element Analysis of Tunnelling
Niedermayr, Andrea: Effects of magnesium, polyaspartic acid, carbonate accumulation rate and temperature on the crystallization, morphology, elemental incorporation and isotopic fractionation of calcium carbonate phases
Poetsch, Markus: The analysis of rotational and sliding modes of failure for slopes, foundations, and underground structures in blocky, hard rock
Radoncic, Nedim: Tunnel design and prediction of system behaviour in weak ground
Sindelar, Christine: Design of a Meandering Ramp
Wallner, Maria: Leistungsabweichungen bei Planerleistungen

Fakultät für Maschinenbau und Wirtschaftswissenschaften
Blechinger, Jörg: Logistik-Controlling im Supplier Relationship Management – Theoretische Konzeption und Überprüfung der Anwendbarkeit in der betrieblichen Praxis
Fleischhacker, Jan: Prozessoptimierte Simulationstechnik für die Fahrwerksentwicklung von Nutzfahrzeugen
Henn, Mathias: Emissionsfaktoren für Straßentunnel – Ermittlung und Validierung
Jajcevic, Dalibor: CFD-Simulation of High Performance 2-Stroke Engines Applying Multidimensional Coupling Methodologies
Kelz, Gerald: Modulare Modellbildung und Simulation von hybriden Antriebssträngen
Keplinger, Alois: Ansatz zur Kostenplanung von Innovationsvorhaben unter Unsicherheitsaspekten
Kienberger, Thomas: Methanierung biogener Synthesegase mit Hinblick auf die direkte Umsetzung von höheren Kohlenwasserstoffen
Lang, Wolfgang: Erstellung von Simulationsmodellen für ausgewählte Problemstellungen bei der Entwicklung von hermetischen Kolbenkompressoren
Nebel, Manuel Michael: Entwicklung einer virtuellen Streckenbeschreibung einer Verbrennungskraftmaschine für Aufgaben der Applikation
Pfleger, Paul: Determinanten für einen erfolgreichen Geschäftsabschluss bei Ingenieurdienstleistungen – eine empirische Untersuchung im Bereich der Bauingenieurdienstleistungen
Ringhofer, Markus: R&D Cooperation – Propensity to Cooperate and to Succeed
Schaffer, Klaus Maria: Maßnahmen zur Verbesserung des Arbeitsprozesses und des Reibungsverhaltens von Pkw-Dieselmotoren

Fakultät für Elektrotechnik und Informationstechnik
Charoentong, Pornpimol: Identification of MicroRNA Networks Associated with Tumor Progression in Colorectal Cancer
Duszka, Kalina: NUR77-dependent PPARγ2 deregulation in fasted white adipose tissue
Fernandez Prim, David: Advanced GNSS receiver architectural measures for improved performance in interference environments
Fischer, Maria: Exome analysis using next-generation sequencing data
Flohberger, Markus: Advanced Satellite Monitoring Using Blind Demodulation Techniques
Freiberger, Manuel: Nonlinear reconstruction schemes and experimental design for fluorescence diffuse optical tomography
Gaun, Alexander: Probabilistic Transmission System Redundancy Optimization
Gigl, Thomas: Low-Complexity Localization using Standard-Compliant UWB Signals
Imamovic, Denis: Umweltfreundliche Isoliergase für gasisolierte Leitungen zur Hochspannungs-Gleichstrom-Übertragung
Iqbal, Farhat: Investigations and Design Solutions of a High Repetition Rate Satellite Laser Ranging (SLR) System
Jaffer, Ghulam: Study of an Austrian Lightning Nano-Satellite (LiNSAT): Space and Ground Segments
Jaindl, Michael: Numerical Simulation of Weakly Coupled Multiphysical Problems in Electrical Engineering
Kravchenko, Roman: Development of Passive LTCC Components with Improved Characteristics for Microwave Front-End Applications
Mair, Andreas: Misfire detection for internal combustion aircraft engines
Mandl, Peter: Last Mile Access Technologien zur Netzwerkanbindung verschiedener Gebäude unter Berücksichtigung der technischen und rechtlichen Vorschriften
Marzuki, Marzuki: Tropospheric precipitation microstructure and its influence on electromagnetic wave propagation

Ortner, Markus:	Lösungsverfahren zur Berechnung magnetischer Energiewandler mittels nichtlinearer magnetischer Netzwerke
Reinbacher-Köstinger, Alice:	Fast and Accurate Identification of Hidden Conductive 3D Objects with Deterministic and Stochastic Methods
Saleem, Shahzad:	Adaptive Calibration of Frequency Response Mismatches in Time-Interleaved Analog-to-Digital Converters
Süßenbacher, Wilhelm:	Marktgestaltung unter Berücksichtigung der Besonderheiten der Elektrizitätswirtschaft
Thonhauser, Michael:	A Runtime System for Model-based Software Components in Mobile Environments
Tuerk, Christian:	Numerische Berechnung elektromagnetischer Raumschirme im höherfrequenten Bereich

Fakultät für Technische Mathematik und Technische Physik

Blaickner, Matthias:	Monte Carlo Simulations of an ensemble of reference phantoms as a basis towards a more individual dose assessment in Nuclear Medicine
Gamillscheg, Ralf:	Occupation Number Space Partitioning by Basis Reordering and Multiscale Approaches for Strongly-Correlated Material Hamiltonians
Huss, Wilfried:	Internal aggregation models
Leitold, Georg:	Computation of neoclassical transport coefficients and generalized Spitzer function in toroidal fusion plasmas
Phan Xuan, Thanh:	Boundary Element Methods for Boundary Control Problems
Pippan, Peter:	Quantum Monte Carlo Simulations of Bosonic Systems
Rattenberger, Johannes:	Improved understanding of scattering processes and their meaning for quantitative image interpretation in advanced scanning electron microscopy
Reuter, Piet:	Probing Inside a Scanning Electron Microscope
Sava, Ecaterina:	Lamplighter Random Walks and Entropy-Sensitivity of Languages
Tchoualag, Laurent:	Combined Generalized Newton Approach with Boundary Element Methods for Contact Problems
Traußnig, Thomas:	Charge-induced property tuning of nanoscaled metals and metal oxides
Weinmann, Andreas:	Analysis of nonlinear geometric subdivision schemes on polyhedral meshes
Wiessner, Manfred:	Hochtemperatur-Phasenanalyse am Beispiel martensitischer Edelstähle
Windisch, Markus:	Boundary Element Tearing and Interconnecting Methods for Acoustic and Electromagnetic Scattering
Yussouf, Muhammad:	Boundary Element Methods for Stokes Dirichlet Control Problems

Fakultät für Technische Chemie, Verfahrenstechnik und Biotechnologie

Boniello, Caterina:	Towards rational design of immobilized biocatalysts through consideration of mass transfer effects
Hasmann, Andrea:	Diagnostic system for detection of wound infection based on novel enzyme substrates
Kritzinger, Johannes:	Automated Serial Sectioning Applied to the Analysis of Coating Layer Structures and Fiber Cross Section Properties
Manavbasi, Yasemin:	NKCS derived peptides as novel cancer therapeutics
Mandl, Christoph:	Entwicklung, Test und Evaluierung einer Pelletvergasungstechnologie zur Wärmeerzeugung im kleinen Leistungsbereich
Neuhold, Susanna:	Electrochemical Generation of Compounds Bearing a Transition Metal – Group (XIV) Element Bond
Noblet, Pierre:	Silylated heptaphosphanes: syntheses and reactions
Onitsch, Christine:	Electron Paramagnetic Resonance and Photophysical Investigations on Multifunctional Organic Molecules
Siraj, Noureen:	Heterogeneous Electron Transfer Rates of Organic Redox Systems Measured in Ionic Liquids
Spanova, Miroslava:	Neutral Lipid Storage in Yeast
Tahir, Muhammad Suleman:	Application of Corona Discharge in Off-gas and Wastewater Treatment (Effect of Electrode Geometry on Performance)
Witek, Georg:	Scale-up of the Production of Monofunctional Polysiloxanes
Zahid, Muhammad:	Synthesis and photophysical characterization of new cyano-substituted aromatic compounds
Zeb, Alam:	Carotenoids and Triacylglycerols Interactions during Oxidation

Fakultät für Informatik

Ahsan, Syed Nadeem:	Using Machine Learning for Automatic Software Fault Prediction and Multi-label Classification of Software Change Requests 7
Brandl, Harald:	Testing of Hybrid Systems using Qualitative Models
Dold, Christian:	Retrospective and Prospective Motion Correction for Magnetic Resonance Imaging of the Head
Galler, Stefan Josef:	Automatic Object Type Test Input Data Generation for Java Programs based on Design by Contract Specification
Hutter, Michael:	Secure and Efficient Implementation of RFID Tags Supporting Cryptography
Kluckner, Stefan:	Semantic Interpretation of Digital Aerial Images Utilizing Redundancy, Appearance and 3D Information
Mendez, Erick:	On the Usage of Context for Augmented Reality Visualization
Mühl, Judith:	Techniques for Interdisciplinary Validation by Visualization in Physiological Modeling Liver Radiofrequency Ablation
Nica, Mihai:	On the Use of Constraints in Automated Program Debugging – from Foundations to Empirical Results
Sareika, Markus:	Urban Sketcher: Mixing Urban Realities using Mixed Reality Technology
Schall, Gerhard:	Mobile Augmented Reality for Human Scale Interaction with Geospatial Models
Schläffer, Martin:	Cryptanalysis of AES-Based Hash Functions
Storer, Markus:	Shape and Appearance Based Analysis of Facial Images for Assessing ICAO Compliance
Streit, Marc:	Guided Visual Analysis of Heterogeneous Data
Umgeher, Martin:	Automated Usability Evaluation in Agile Projects