



DISSERTATIONEN AN DER TU GRAZ

1. Mai 2012 bis 31. Oktober 2012 (soweit bekannt gegeben)

Fakultät für Architektur

- Haub, Wilhelm Christian:** Wohnmodelle einer neuen Gesellschaft – Entwicklungen des Wohnens unter dem Aspekt sozialer und gesellschaftlicher Veränderungen
Kokol, Jan: Mass Customization basierend auf wirtschaftlichen Modellen und die Parallelität zur Kunst als Unikum
Wurm, Markus: Der Beitrag des öffentlichen Raums zum Integrationsprozess von Zugewanderten am Beispiel von drei Wiener Stadtvierteln

Fakultät für Bauingenieurwissenschaften

- Aslam, Muhammad Tahseen:** Settling of solids in raw wastewater – primary settling tanks and storm water tanks
Brandner, Reinhard: Stochastic System Actions and Effects in Engineered Timber Products and Structures
Gündogan, Fatih: Simplified traffic responsive signal control method for developing large cities
Hamdhan, Indra Noer: A Contribution to Slope Stability Analysis with the Finite Element Method
Lackner, Christian: Prestressed reinforced soil – Concept, investigations and recommendations
Li, Peng: Boundary Element Method for Wave Propagation in Partially Saturated Poroelastic Continua
Reiter, Thomas: Wirkung von Straßenbenutzungsgebühren auf die Routenwahl gezeigt an österreichischen Verkehrsbefragungen
Rinder, Thomas: Precipitation of Calcium Carbonates – Field Studies and Laboratory Experiments
Vicunik, Rita: Untersuchungen zur Dynamik der Feststoffsedimentation in Absetzbecken
Zechner, Juergen: A Fast Boundary Element Method with Hierarchical Matrices for Elastostatics and Elasto-Plasticity

Fakultät für Maschinenbau und Wirtschaftswissenschaften

- Hammer, Michael:** Frictional mortar contact for finite deformation problems with synthetic contact kinematics
Hösch, Sabine: Modeling individual Usage Behavior for Business Information System & Information Technology
Leitner, Daniel: Potenziale eines PKW-Wasserstoffmotors mit kryogener Saugrohrreinblasung
Losonczy, Benjamin: Entwicklung von Methoden zur Plausibilisierung von Prüfstandsdaten für die Motorenentwicklung
Niederkofler, Haymo: Analyse radselektiv eingreifender Fahrdynamikregelsysteme für die Anwendung in Elektromechanischen Corner-Modulen
Pemp, Bernhard: Niedrigemissionskonzept für mittelschnellaufende Lokomotivmotoren ohne Abgasnachbehandlung
Psutka, Siegfried: Universitäres Beteiligungscontrolling – Erfolgsfaktoren in den Lebensphasen von universitären Beteiligungen aus der Sicht von Universitäten
Pötsch, Christoph: On 0-dimensional Modeling of Combustion and Pollutant Formation in Diesel Engines
Redtenbacher, Christoph: Analyse und Optimierung von Vorkammerbrennverfahren für Großgasmotoren
Rejlek, Jan: Wave based technique for the numerical mid-frequency modelling of coupled, unbounded vibro-acoustic problems
Rojas Rojas, Andrés Eduardo: Passenger Vehicles with In-Wheel Motors: Fundamentals, Potentials and Limitations
Schlick, Harald: Charakterisierung der Verbrennung und des Klopfens in direktgezündeten Großmotoren im Sondergasbetrieb
Töglhofer, Reinhard: Systematische Gestaltung der Organisation von Startaktivitäten internationaler Unternehmen in Emerging Markets – gezeigt an Beispielen der Informations- und Kommunikationsbranche
Unterguggenberger, Peter: Bewertung von Wärmemanagementmaßnahmen zur Reduktion des Kraftstoffverbrauchs im Motorwarmlauf
Vorraber, Wolfgang: Strategic Planning Framework for ICT-based Information Service Systems

Fakultät für Elektrotechnik und Informationstechnik

- Bauernfeind, Günther:** Using Functional Near-Infrared Spectroscopy (fNIRS) for Optical Brain-Computer Interface (oBCI) Applications
Campos, Fernando Otaviano: Modeling Atrial Activation Sequences in the Rabbit Heart in Macroscopic and Microscopic Dimensions
Eriksson, Thomas: Cardiovascular Mechanics: The Biomechanics of Arteries and the Human Heart
Fabian, Jürgen: Dielektrische Kennwerte von Isolierstoffen bei Gleichspannungsbeanspruchung
Friedl, Katrin: Power Frequency Electric and Magnetic Fields: Worst-Case Calculation and Optimisation Through Optimal Conductor Arrangement
Gossar, Martin: System Evaluation and Development of an Evaluation Reader for 13.56MHz RFID Systems Providing Very High Data Rates up to 13.56 Mbit/s
Holzer, Peter: Multibody Structure and Motion from Structure and Motion in conjunction with Space Time Appearance Analysis
Huynh Viet, Thang: Efficient Floating-Point Implementation of Signal Processing Algorithms on Reconfigurable Hardware
Kraiger, Markus: Methodische Aspekte der quantitativen Magnetresonanztomographie für endogene Biomarker auf dem Gebiet der muskuloskeletalen Bildgebung
Langkammer, Christian: Quantitative Magnetic Resonance Imaging of Brain Iron
Lindinger, Martin: Nachweis globaler Erdungssysteme durch Messung und Berechnung von verteilten Erdungsanlagen
Mushtaq, Muhammad Tahir: Energy detection and machine learning Based Spectrum sensing techniques for QPSK based baseband and pass-band Cognitive radio Systems
Niedermayr, Florian: Human Thermoregulation Model of RF-EMF Interaction
Parthan, Binu: Measuring of low-carbon Energy Innovations - The Case of Developing Countries
Sommer, Martin: Implementation of an Electrochemical Model for Lithium-Ion Battery Condition Monitoring
Weilharter, Bernhard: Noise Computation of Induction Machines
Wiener, Thomas: Analysis of Cardiac Near Field Signals
Wohlmayr, Michael: Probabilistic Model-Based Multiple Pitch Tracking of Speech

Fakultät für Technische Mathematik und Technische Physik

- Akhtar, Nadeem:** Investigation of Hyperfine Structures of Spectral Lines of Singly Ionized Praseodymium Using Fourier Transform Spectrum, Saturation Spectroscopy and Collinear Laser Ion Beam Spectroscopy
Augustin, Christoph: Classical and All-floating FETI Methods with Applications to Biomechanical Models
Außerlechner, Simon Josef: Proton Induced Doping and Space Charge Layer Formation in Organic Thin-Film Transistors
Candellero, Elisabetta: Limit Behaviors for Random Walks and Branching Random Walks on some Products of Groups
Djuras, Gordana: Generalized Poisson Models for Word Length Frequencies in Texts of Slavic Languages



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Djuric, Tatjana:	Molecular crystals on crystalline surfaces: examples of organic rod-like and plate-like molecules
Doan, Cong Dinh:	Generalized Clifford Analysis
Ebner, Oliver:	Stochastic aspects of refinement schemes on metric spaces
Fulterer, Anna Maria:	Competing Phases in High-Tc Superconductors: Variational Cluster Approach From Equilibrium to Non-Equilibrium
Gruber, Manfred:	Simulation of the charge carrier transport in organic semiconductor devices
Knap, Michael:	Collective Modes and Dynamics in Strongly Correlated Many-Body Systems: a Variational Cluster Approach
Moser, Armin:	Crystal Structure Solution Based on Grazing Incidence X-ray Diffraction: Software Development and Application to Organic Films
Mulec, Miran:	Magnetohydrodynamic and Kinetic Modelling of Resistive Wall Modes
Neuhold, Alfred:	Structures of Buried Interfaces in Organic Multilayer Devices: X-ray Reflectivity Based Studies
Possanner, Stefan Johannes Camillo:	Modeling and Simulation of Spin-Polarized Transport at the Kinetic and Diffusive Level
Tamtögl, Anton:	Surface Dynamics and Structure of Bi(111) from Helium Atom Scattering
Fakultät für Technische Chemie, Verfahrenstechnik und Biotechnologie	
Bragina, Anastasia:	Structural and functional patterns of Sphagnum-associated microbial communities: biodiversity and ecology
Braun, Andreas:	Expression of human liver cytochrome P450 enzymes in the non-conventional yeast <i>Yarrowia lipolytica</i> for the evaluation of two-liquid biphasic whole-cell biotransformation of steroids
Do Thi Thu, Huyen:	Development of a decision support framework considering sustainability for the selection of thermal food processes
Ebner, Clemens:	Polyesters as Bioresorbable Materials for Orthopedic Surgery
Eder, Rafael:	Continuous Tubular Crystallizer for the Preparation of Active Pharmaceutical Ingredients
Fauland, Alexander:	Comprehensive analytical methods for lipid profiling in biological systems
Fürnkranz, Michael:	Untersuchungen zur Bekämpfung der Fruchtfäule und Bakteriosen des Steirischen Ölkürbis
Gehmayr, Verena:	Multifunctional Alkaline Pulping with Enzyme Treatments: How to Convert Paper-grade Pulps into High-quality Dissolving Pulps
Geier, Martina:	Redesign of Oxygenases for Biocatalysis
Griesser, Markus:	Mechanistic Investigations of Novel Photoinitiators for Radical Polymerization
Gütsch, Jenny Sabrina:	Strategies for the removal of lignin derived impurities from Eucalyptus globulus wood prehydrolyzates
Kettl, Karl Heinz:	Evaluation of energy technology systems based on renewable resources
Koren, Klaus:	Optical oxygen sensors – indicators and materials synthesis and applications
Krysiak, Joanna Maria:	Investigations towards the Development and Biological Evaluation of Activity-based Protein Profiling (ABPP) of Flavin-dependent Oxidases
Littringer, Eva Maria:	Tailor-made carrier particles for dry powder inhalers
Meidiana, Christia:	Energy Analysis for Assessing the Scenarios of Final Waste Treatment in Yogyakarta, Indonesia
Mair-Zelenka, Philipp:	Charakterisierung von Vielstoffgemischen mit Realkomponenten
Mellitzer, Andrea:	Expression and engineering of eukaryotic enzymes for polymer modification using <i>Pichia pastoris</i>
Noll, Hannes:	Flüssigmembranpermeation mit gestützten Membranen
Näätsaari, Laura Hannele:	Horseradish peroxidase isoenzyme discovery and production in a new improved <i>Pichia pastoris</i> expression system
Peters, Martin:	A Flexible and Modular Approach for the Synthesis of Teraryls: Alpha-Helical Peptidomimetics as Potential Inhibitors in Protein-Protein-Interactions
Rentner, Jana:	Investigations into the mode of action of biologically active molecules
Schaeffner, Harald:	Entwicklung eines fluoreszenzoptischen Verfahrens zur Ermittlung von Materialstrukturen auf Basis eines automatisierten Mikrotomiekonzeptes
Swasti, Yuliana Reni:	Furan Derivatives: Its Occurrence in Foods, Contribution to Melanoidin Formation, Metabolism
Weiß, Stefan:	Aktivierter Zeolith als funktioneller Lebensraum in anaeroben Fermentationsprozessen

Fakultät für Informatik

Al-Smadi, Mohammad:	Flexible and Integrated e-Assessment in Complex Learning Resources: A Service-oriented approach for Computer-Based and Computer-Assisted Knowledge Assessment
Dietrich, Kurt:	Cryptographic Enhancements for Trusted Computing Applications
Halb, Wolfgang:	Creating, Interrelating and Consuming Linked Data on the Web
Khan, Inayatullah:	Learning from Internet Images for Object Categorization
Klopschitz, Manfred:	Robust Reconstruction and Efficient Localization for Mobile Augmented Reality
Körner, Christian:	Aspects of User Motivation in Social Tagging Systems
Mandl, Monika:	Interactive recommendation applications for configurable products and services
Meixner, Philipp:	Characterization of Real Properties using 3D vision
Nad, Tomislav:	Tools in the Cryptanalysis of Symmetric Primitives
Pirker, Katrin:	Simultaneous Localization and Mapping in Dynamic Environments
Recky, Michal:	Façade processing in streetside images
Riemenschneider, Hayko:	Object detection by partial shape matching, category models and joint segmentation
Sabol, Vedran:	Visual Analysis of Relatedness and Dynamics in Complex, Enterprise-Scale Repositories
Seifert, Christin:	Visually Supported Supervised Machine Learning
Solis Escalante, Teodoro:	The Asynchronous Graz Brain Switch
Teufel, Peter:	Semantic Patterns
Trattner, Christoph:	On the Navigability of Social Tagging Systems
Unger, Markus:	Convex optimization for image segmentation
Veas, Eduardo Enrique:	Augmented Reality Interfaces for Mobile Environmental Monitoring
Werlberger, Manuel:	Convex Approaches for High Performance Video Processing