

Minisymposium Geomathematics

Cologne, 21-22 September 2011

Preliminary Programme

Wednesday, 21 September 2011

- 14:15-14:30, Volker Michel (University of Siegen, Germany): Opening
- 14:30-15:00, Willi Freeden (University of Kaiserslautern, Germany): Spherical Discrepancies
- 15:00-15:30, Katrin Bentel (Norwegian University of Life Sciences, Ås): Point Grid Positions for Radial Base Functions and Their Effect in Regional Gravity Field Representations
- 15:30-16:00, Roger Telschow (University of Siegen, Germany): Nonlinear Approximation of Spherical Functions with Dictionaries
- 16:00-16:30, *Coffee break*
- 16:30-17:00, Doreen Fischer (University of Siegen, Germany): Sparse Regularization of an Inversion of Gravitational Data and Normal Mode Anomalies
- 17:00-17:30, Kamil S. Kazimierski (University of Bremen, Germany): Efficiency of Iterative Regularization Methods Using Banach Space Norms
- 17:30-18:00, Sergei Pereverzev (RICAM, Linz, Austria): Multiparameter Regularization in Geodetic Data Processing
- 18:00-18:30, Robert Plato (University of Siegen, Germany): The Regularizing Properties of Some Quadrature Methods for Linear Weakly Singular Volterra Integral Equations of the First Kind

Thursday, 22 September 2011

- 14:00-14:30, Zuhair Nashed (University of Central Florida, Orlando, USA): Moment Problems in Reproducing Kernel Hilbert Spaces
- 14:30-15:00, Isabel Ostermann (Fraunhofer ITWM Kaiserslautern, Germany): Modeling Heat Transport in Deep Geothermal Systems by Radial Basis Functions
- 15:00-15:30, Jörn Behrens (University of Hamburg, Germany): A Practical Application of Uncertainty Propagation for Tsunami Early Warning
- 15:30-16:00, Roland Potthast (Deutscher Wetterdienst, Offenbach, Germany): Convergence Criteria on Ensembles for Local Ensemble Filters and Their Use for Ensemble Control
- 16:00-16:30, *Coffee break*
- 16:30-17:00, Johannes Wicht (Max Planck Institute for Solar System Research, Katlenburg-Lindau, Germany): Towards Realistic Planetary Dynamo Simulations
- 17:00-17:30, Christian Gerhards (University of Kaiserslautern, Germany): Multiscale Methods in Geomagnetic Modeling
- 17:30-18:00, Roelof Rietbroek (University of Bonn, Germany): The Use of GRACE Gravimetry and Altimetry to Separate Sea Level Contributions
- 18:00-18:30, Zdenek Martinec (Dublin Institute for Advanced Studies, Ireland): The Adjoint Sensitivity Method of Global Electromagnetic Induction for CHAMP Magnetic Data
- 18:30-18:35, Volker Michel (University of Siegen, Germany): Conclusions