

Program Workshop Ebernburg 2015

Thursday October 15th

09:50 Welcome

Project reports (20 + 10 min.)

10:00 J. Wicker: Data Mining for Atmospheric Chemistry

10:30 Brinkmann: TCGA Data Mining

11:00 B. Schmidt: Design, implementation and evaluation of a new approach for somatic variation calling from short read data

11:30 Althaus / Hildebrandt: Graph-Grammatiken zur Molekularen Substruktursuche / Towards the ground truth: Exact algorithms for Computational Biology (CB++)

12:00 Lunch

13:00 Election of the executive committee

13:15 H. Tost: Comprehensive Earth System Modelling for a Permian Earth

13:45 G. Reuber: Reverse and inverse modelling of geological structures

14:15 D. Will: Detection and visualization of key structures in complex meteorological flows

14:45 Coffee & Cake break

15:15 J. Werner: Evolution of Endothermy

15:45 N. Sfakianakis: Bayesian Parameter Identification and Uncertainty Quantification in Systems Biology: A case study for the Drosophila Gap Gene System

16:15 R. Schulze / U. Heil: Automated detection of patient motion in dental CBCT

16:45 Coffee break

17:15 P. Mier: FastaHerder2: four ways to research protein function and evolution with clustering and clustered databases

17:45 S. Gerber: Towards multiscale biology-driven integration of Omics data

18:30 Dinner

19:30 Meeting of the executive committee

Friday October 16th

Project proposals (20 + 10 min.)

09:00 Hankeln / Brinkmann: Infrastructure for *de novo* genome sequencing on MOGON

09:30 Schmidt / Hankeln: Fast and accurate metagenomic short read analysis on GPUs

10:00 Wand / Brinkmann: Big Data in Radiology: Quantitative Assessment of 3D Computer Tomography Image Data Bases

10:30 Coffee break

11:00 Kaus / Hanke-Bourgeois: A novel method to solve large scale 3D inverse problems with application to continental collision

11:30 Lukacova / Raasch / Virnau: Comparison of weakly compressible and incompressible macroscopic models within heterogeneous multiscale methods for simulation of polymeric flows

12:00 Peternell / Kaus: First 3D simulation of deformation band formation

12:30 Lunch

13:30 Hildebrandt / Spichtinger: Numerische Reproduktion räumlicher Strukturen von Eiskristallen aus zweidimensionalen Schattenbildern

14:00 Meyer: Bestimmung von spektralen Dichten in der Gitter QCD

14:30 Orus / Raasch / Rizzi: Numerical optimization of tensor networks

15:15 Meeting of the executive committee