Computational Science Mainz

Thursday September 29th

9:50 *Welcome*

Project reports (20 + 10 min.)

10:00 M. Wand (Inst. f. Informatik): Big data in radiology: quantitative assessment of 3D computer tomography image data bases

10:30 M. Dönges (Inst. f. Mathematik): Numerical optimization of tensor networks

11:00 B. Schmidt (Inst. f. Informatik): MetaCache: context-aware classification of metagenomic reads using minhashes

11:30 Coffee break

11:45 A. Popov (Inst. f. Geowissenschaften): MISO: multivariate inversion by surrogate optimization

12:15 S. Kramer (Inst. f. Informatik): Data mining for atmospheric chemistry

12:45 Lunch

Additional Talks (20 + 10 min.)

13:30 J. Fugal (Inst. f. Physik der Atmosphäre): Processing particle hologram data en masse

14:00 H. Tost (Inst. f. Physik der Atmosphäre): Global modelling of biological aerosol particles

14:30 Coffee break

14:45 D. Fournier (Computational Systems Genetics Group): The linkage of genetic variants based on the inference of genotype categories relations is structurally more meaningful than classical linkage disequilibrium

15:15 I. Horenko (Università della Svizzera italiana (USI), Schweiz): Towards a direct data-driven identification of causality-preserving reduced dynamical models

15:45 Reception (Sparkling wine being served)

16:15 Meeting of the executive committee