

Monday, August 19

08:50-09:00 Opening

09:00-09:30 H. Wozniakowski - Tractability for Volterra problems with convolution kernels

09:30-10:00 R. Kunsch - Optimal confidence for Monte Carlo integration of smooth functions

10:00-10:30 Coffee

10:30-11:00 F. Pillichshammer - Tractability properties of discrepancies

11:00-11:30 S. Cox - Convergence in Hölder and Sobolev norms for approximations of Gaussian fields

11:30-12:00 K. Kirchner - Fast simulation of non-stationary Gaussian random fields

12:00-15:00 Lunch Break

15:00-15:30 S. Steinerberger - Potential Theory, inverse Laplacians and new low(?)-discrepancy sequences

15:30-16:00 J. Prochno - Sanov type large deviations in the Schatten classes

16:00-16:30 Coffee

16:30-17:00 P. Kritzer - Exponential tractability of linear tensor product problems

17:00-17:30 P. Przybyłowicz - Randomized Euler scheme for strong approximation of SDEs under Sobolev-Slobodeckij smoothness

ART EXHIBITION, OPENING

Tuesday, August 20

09:00-09:45 J. Vybíral - Approximation of shallow neural networks

AWARD CEREMONY

09:45-10:15 Coffee

10:15-10:45 A. Keller - Quasi-Monte Carlo methods and artificial neural networks

10:45-11:15 M. Ehler - Spectral decomposition of kernels on manifolds

11:15-11:45 M. Szölgényi - Convergence order of the Euler-Maruyama scheme in dependence of the Sobolev regularity of the drift

11:45-14:30 Lunch Break

15:00-15:30 D. Krieg - The power of random information

15:30-16:00 A. Teckentrup - Convergence analysis of Gaussian process regression

16:00-16:30 Coffee

- 16:30-17:00 M. Wnuk - Randomized Smolyak method and infinite-dimensional integration  
17:00-17:30 L. Yaroslavtseva - On strong approximation of SDEs with a discontinuous drift coefficient

Wednesday, August 21

- 09:00-09:45 E. Novak - Algorithms and complexity for functions on general domains  
09:45-10:15 Coffee  
10:15-10:45 L. Kämmerer - Uniform recovery guarantees for least squares approximation  
10:45-11:15 T. Goda - Multilevel Monte Carlo methods for estimating the expected value of information  
11:15-11:45 M. Hefter - Adaptive quantile computation for Brownian bridge in change-point analysis

ANNOUNCEMENTS OF CONFERENCES ETC.

Thursday, August 22

- 09:00-09:45 M. Hutzenthaler - Overcoming the curse of dimensionality for high-dimensional PDEs  
09:45-10:15 Coffee  
10:15-10:45 M. Zani - Approximation complexity for random fields  
10:45-11:15 R. Cools - Lattice algorithms for multivariate approximation in periodic spaces with general weight parameters  
11:15-11:45 J. Calvin - Optimization of smooth Gaussian processes  
11:45-15:00 Lunch Break  
15:00-15:30 D. Nuyens - Lattice algorithms for approximation: new constructions  
15:30-16:00 L. Plaskota - On the search for ALL zeros of regular functions  
16:00-16:30 Coffee  
16:30-17:00 S. Dereich - CLTs for stochastic approximation schemes under non-standard assumptions  
17:00-17:30 D. Rudolf - Wasserstein contraction and spectral gap of simple slice sampling

Friday, August 23

- 09:00-09:30 S. Heinrich - Complexity of stochastic integration  
09:30-10:00 M. Gnewuch - Mixed randomized sequences, negative dependencies, and probabilistic discrepancy bounds

10:00-10:30 Coffee

10:30-11:00 M. Giles - Nested multilevel Monte Carlo and use of  
approximate random variables

11:00-11:30 V. Temlyakov - Sampling discretization error of integral norms  
for function classes

11:30-12:00 M. Ullrich - Dispersion and fixed volume discrepancy