Monday, September 23rd

9:00 – 9:10   Welcome
Dorothea Wagner

9:10 – 9:40   Peter Sanders
Parallel Algorithms Reconsidered

9:40 – 10:10  Henning Meyerhenke
Engineering High-Performance Community Detection Heuristics for Massive Graphs

10:10 – 10:40 Andrea Kappes
Graph Clustering with the Louvain Method

10:40 – 11:00 Break

11:00 – 11:30 Jyrki Katajainen
Seeking for the Best Priority Queue: Lessons Learnt

11:30 – 12:00 Katharina A. Zweig
A new algorithm for solving the All-Pairs-Shortest-Paths problem

12:00 – 12:05 Renato Werneck
11-th DIMACS Implementation Challenge

12:15   Lunch

15:30 – 16:00 Coffee & Cake

16:00 – 16:30 Kevin Buchin
New Algorithms for Computing the Greedy Spanner

16:30 – 17:00 Giuseppe F. Italiano
Engineering Algorithms for Color Barcodes

17:00 – 17:45 Panel: Empirical and Theoretical Approaches to Algorithm Design: Synergies and Opportunities
Moderator: Dorothea Wagner

18:00   Dinner
Tuesday, September 24th

9:00 – 9:30  David Johnson
The TSP for random points in the unit square: an experimental and statistical study

9:30 – 10:00  Jon Bentley
Engineering Little Algorithms into a Big System

10:00 – 10:30  Renato Werneck
An Exact Combinatorial Algorithm for Graph Bisection

10:30 – 11:00  Break

11:00 – 12:00  Panel: Benchmarks and reproducibility of experiments
Moderator: Andrew Goldberg

12:15  Lunch

15:30 – 16:00  Coffee & Cake

16:00 – 16:30  Frank Dehne
Real-Time On-line Analytical Processing (OLAP) On Cloud Architectures

16:30 – 17:00  Yoshio Okamoto
Enumeration algorithms: polynomial time by branch and bound versus exponential time by ZDDs

17:00 – 17:45  Shin-ichi Minato
The Art of Discrete Structure Manipulation Based on BDDs and ZDDs

18:00  Dinner
Wednesday, September 25th

9:00 – 9:30  Andrew Goldberg
            The Hub Labeling Algorithm

9:30 – 10:00 Christos Zaroliagis
           Improved Alternative Route Planning

10:00 – 10:30 Daniel Delling
             Customizable Route Planning in Road Networks

10:30 – 11:00 Break

11:00 – 11:30 Julian Dibbelt
             Multimodal Route Planning

11:30 – 12:00 Bob Bixby
              TBA

12:15  Lunch

14:30  Excursion

18:00  Dinner
Thursday, September 26th

9:00 – 9:30  Holger Hoos  
*Machine Learning & Optimisation: Promise and Power of Data-driven, Automated Algorithm Design*

9:30 – 10:00  Roger Wattenhofer  
*Consistent Updates in Software Defined Networks*

10:00 – 10:30  Maria Papatriantafilou  
*Role of concurrent data structures in efficient computations of massive streamed data - with "smart grid" systems as a case study*

10:30 – 11:00  Break

11:00 – 11:30  Hannah Bast  
*Algorithm Engineering Issues in Semantic Search*

11:30 – 12:00  Uli Meyer  
*I/O-efficient hierarchical diameter approximation*

12:00 – 12:10  Jon Bentley  
*Remarks on the Discussions*

12:15  Lunch

15:30 – 16:00  Coffee & Cake

16:00 – 16:30  Kurt Mehlhorn  
*The Computational Complexity of Virtual Address Translation*

16:30 – 17:00  Juergen Lerner  
*GraphML-Time: a file format for dynamic graphs*

17:00 – 17:45  Panel: Promoting and advancing the field  
*Moderator: David Jonson*

18:00  Dinner
Friday, September 27th

9:00 – 9:30  **Holger Hoos**
* *A Bootstrap Approach to Analysing the Scaling of Empirical Run-time Data with Problem Size*

9:30 – 10:00  **Sabine Storandt**
* *Facility Location Problems in Street Network*

10:00 – 10:30  **Falk Huffner**
* *Fixed-Parameter and Integer Programming Approaches for Clustering Problems*

10:30 – 11:00  **Break**

11:00 – 12:00  **Matthias Muller-Hannemann**
* *Teaching AE*

12:15  **Lunch**