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 Runtime 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**