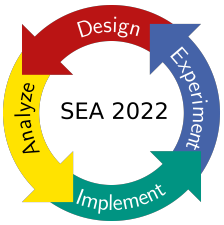

1 Transport

We recommend to buy the "9-Euro-Ticket" for July as this permits travel on buses, trams, and local trains within Germany in June inside Germany.

2 WLAN

There is eduroam available. If you don't have access to eduroam, you may use Heidelberg4you which is a free Wifi provider thoughout the entire city.

3 Corona

One has to wear facemasks on German public transport. Similarly, the Heidelberg University requires facemasks inside buildings whenever there is another person within 1.5m to oneself.

4 Lunches

Lunches will take place on level -1 of the Mathematikon building (the building of the conference).

5 Monday / City Tour

On Monday there will be a city tour (see schedule). The starting point of the city tour will be Löwenbrunnen near Universitätsplatz at 7:15pm (see `shorturl.at/eAKRX`). If you want to, we can walk there together, i.e. we will gather in front of the main entrance and we will leave the Mathematikon building at 6:30pm to walk over to the city tour starting spot.

6 Tuesday / Hike

On Tuesday we will do a hike via the famous Philosophenweg. The hike will end at the dinner location (see below). We will gather in front of the main entrance of the Mathematikon building and will leave the

Mathematikon building at 5pm to start the hike. If you don't want to join the hike you can also directly come to the dinner location at 8pm.

7 Tuesday / Dinner

The dinner will take place on Tuesday starting from 8pm in the Heidelberg Castle (see `https://www.heidelberger-schloss-gastronomie.de/en/`; see also `shorturl.at/fkpMN`).

8 Local Organisation Team

The local organisation team consists out of Marcelo Fonseca Faraj, Ernestine Großmann, Catherine Proux-Wieland, Christian Schulz and Bora Uçar. If you have any question feel free to contact us at any time. You can also spot us by looking for a green mark on the name tag.

9 Proceedings

The conference proceedings can be found here `https://www.dagstuhl.de/dagpub/978-3-95977-251-8`; see also `shorturl.at/cGQW9`.

10 WhatsApp

We created a Whatsapp group for the event. Feel free to join via `shorturl.at/djGMU` or via scanning the following QR code:

11 Program Monday

Monday	
8:50-9:00	Opening
9:00-10:00	Invited Talk (Paul Spirakis), Session Chair: Christian Schulz Algorithmic Problems on Temporal Graphs and a call for experiments. Abstract : Research on Temporal Graphs has expanded in the last few years. Most of the results till now, address problems related to the notion of Temporal Paths (and Temporal Connectivity). In this talk, we focus, instead, on problems whose main topic is not on Temporal Paths. In particular, we will discuss Temporal Vertex Covers, the notion of Temporal Transitivity, and also issues and models of stochastic temporal graphs. We believe that several algorithmic graph problems, not directly related to paths, can be raised in the temporal domain. This may motivate new research towards lifting more topics of algorithmic graph theory to the temporal case. We also notice that not many experimental results have addressed the above problems. We stress the need for new experimental algorithms, especially for the computationally hard Instances of such problems.
10:00-10:30	Coffee Break
Session 1	Strings et al (Session Chair Jose Rolim)
10:30-11:10	Fast Succinct Retrieval and Approximate Membership using Ribbon **(Best Paper)**
11:10-11:35	Computing Maximal Unique Matches with the r-index
11:35-12:00	RLBWT Tricks
12:00-14:00	Lunch
Session 2	Graph Algorithms I (Session Chair Hisao Tamaki)
14:00-14:25	Relating real and synthetic social networks through centrality measures
14:25-14:50	Discrete Hyperbolic Random Graph Model
14:50-15:15	Solving and Generating Nagareru Puzzles
15:15-15:45	Coffee Break
Session 3	Route Planning (Session Chair Dennis Luxen)
15:45-16:10	Fast Computation of Shortest Smooth Paths and Uniformly Bounded Stretch with Lazy RPHAST
16:10-16:35	Routing in multimodal transportation networks with non-scheduled lines
17:00-17:25	Stochastic Route Planning for Electric Vehicles
17:25-18:25	Business Meeting
19:15-20:00	City Tour

12 Program Tuesday

Tuesday	
8:50-9:00	Opening
9:00-10:00	Invited Talk (Tobias Achterberg), Session Chair Leo Liberti: Combinatorial algorithms used inside a MIP solver Abstract: State-of-the-art solvers for mixed integer programs (MIP) need to solve a variety of combinatorial sub-problems in many of the components of the solver, for example in presolving, cutting plane separation, node selection, the simplex algorithm, or the barrier algorithm. Some of these sub-problems are solvable in polynomial time while others are NP hard.
10:00-10:30	Coffee Break
Session 4	Graph Algorithms II (Session Chair Michael Goodrich)
10:30-10:55	Parallel Flow-Based Hypergraph Partitioning
10:55-11:20	Digraph k-Coloring Games: from Theory to Practice
11:20-11:45	A branch-and-bound algorithm for cluster editing
11:45-14:00	Lunch
Session 5	Learning and Optimization I (Session Chair Mattia D'Emidio)
14:00-14:25	Efficient Exact Learning Algorithms for Road Networks and Other Graphs with Bounded Clustering Degrees
14:25-14:50	On the Satisfiability of Smooth Grid CSPs.
14:50-15:15	Practical performance of Random Projections in Linear Programming
15:15-15:45	Coffee Break
Session 6	Graph Algorithms III (Session Chair Tobias Heuer)
15:45-16:10	Efficient and Accurate Group Testing via Belief Propagation: an Empirical Study
16:10-16:35	A Parallel Framework for Approximate Max-Dicut in Partitionable Graphs
16:35-17:00	An Experimental Study of Algorithms for Packing Arborescences
17:00-20:00	Social Event -- Hike
20:00-23:00	Social Dinner

13 Program Wednesday

Wednesday	
8:50-9:00	Opening
9:00-10:00	Invited Talk (Cynthia A. Phillips), Session Chair Bora Uçar Unique experimental algorithms for national security applications Government/national-security combinatorial optimization problems frequently have some twist. This might be unusual constraints, structure of input data, or computing platform. Almost all require some degree of confidence in the solution through experimental analysis on real or realistic data. These experimental analyses frequently raise novel algorithmic questions. In this talk, we will tell the story, and open questions, around at least three such applications: how and why we needed to make open social-network data sets "more human;" validating implementations of history-independent data structures; and a special case of randomized rounding.
10:00-10:30	Coffee Break
Session 7	Learning and Optimization II (Session Chair Mateus de Oliveira Oliveira)
10:30-10:55	An adaptive refinement algorithm for discretizations of nonconvex QCQP
10:55-11:20	Efficient Minimum Weight Vertex Cover Heuristics using Graph Neural Networks
11:20-11:45	Automatic Reformulations for Convex Mixed-Integer Nonlinear Optimization: Perspective and Separability
11:45-12:10	An Experimental Evaluation of Semidefinite Programming and Spectral Algorithms for Max Cut
12:10-14:00	Lunch
Session 8	Graph Algorithms IV (Session Chair Peter Sanders)
14:00-14:25	A Fast Data Structure for Dynamic Graphs Based on Hash-Indexed Adjacency Blocks
14:25-14:50	Heuristic computation of exact treewidth
14:50-15:00	Closing
15:00-15:30	Coffee Break