Sunday, January 27, 2019

9:00 – 10:30	**invited talk** *Flavio Chierichetti (Sapienza University of Rome)* LSH, Similarities and Distortion

11:00 – 11:25	*Shantanu Das, Giuseppe Antonio Di Luna and Leszek Gasieniec* Patrolling on Dynamic Ring Networks	*Henning Fernau, Lakshmanan Kuppusamy and Indhumathi Raman* On Matrix Ins-Del Systems of Small Sum-Norm
11:25 – 11:50	*Dorota Osula* Minimizing the Cost of Team Exploration	*Raffaello Carosi, Simone Fioravanti, Luciano Gualà and Gianpiero Monaco* Coalition Resilient Outcomes in Max k-Cut Games
11:50 – 12:15	*Shantanu Das, Nikos Giachoudis, Flaminia Luccio and Euripides Markou* Gathering of Robots in a Grid with Mobile Faults	*Neeldhara Misra and Chinmay Sonar* Determining Robustness of Multiwinner Rules on Restricted Domains

15:30 – 17:00	**invited talk** *Francesco Bonchi (ISI Foundation)* Distance-based community search

17:15 – 17:40	*Indranil Banerjee, Dana Richards and Igor Shinkar* Sorting Networks On Restricted Topologies	*Julien Baste, Didem Gözüpek, Mordechai Shalom and Dimitrios Thilikos* Minimum Reload Cost Graph Factors
17:40 – 18:05	*Hirotaka Ono and Hisato Yamanaka* A 9-approximation algorithm for $L(2,1)$-labeling of unit disk graphs	*Sebastiaan B. van Rooij and Johan M. M. van Rooij* Algorithms and complexity results for the capacitated vertex cover problem
18:05 – 18:30	*Mattia DÉmidio, Gabriele Di Stefano and Alfredo Navarra* Priority Scheduling in Bamboo Garden Trimming Problem	*Michael Kaufmann* On Point-Set-Embeddings for k-planar graphs with a few bends per edge

welcome rout at 19:00

Monday, January 28, 2019

9:00 – 10:30	**invited talk** *Miroslaw Staron (University of Gothenburg)* Action Research in Software Engineering: Metrics' Research Perspective

11:00 – 11:25	*Lane A. Hemaspaandra and David Narváez* Existence versus Exploitation: The Opacity of Backdoors and Backbones Under a Weak Assumption.	*Martin Labaj, Karol Rástočný and Daniela Chudá* Towards Automatic Comparison of Cloud Service Security Certifications
11:25 – 11:50	*Miloš Chromý and Petr Kucera* Phase Transition in Matched Formulas and a Heuristic for Biclique Satisfiability	*Maciej Skorski* Simple Root Cause Analysis by Separable Likelihoods
11:50 – 12:15	*Jouke Witteveen, Ralph Bottesch and Leen Torenvliet* A Hierarchy of Polynomial Kernels	*Matúš Pikuliak, Marián Šimko and Maria Bielikova* Towards Combining Multitask and Multilingual Learning

15:30 – 16:30	**SRF** presentations *Maksims Dimitriievs. and Abuzer Yakaryılmaz* Private-coin verification with magic coins *Chunmei Dong. Yeting Li. Xiaoying Mou. and Haiming Chen* Learning Restricted Regular Expressions with Interleaving *Enes Esatbeyoglu. Oliver Cassebaum. Sandro Schulze. and Andreas Sass* Vehicle Data-Driven Air Quality Prediction By Using Kernel Density Estimation *Miroslav Opiela* Indoor Localization based on Advanced Point-Mass Filtering Method *Kamellia Reshadi* Unary Patterns of Size Four with Morphic Permutations *Steven Wessels. and Dustin van der Haar* Gait-Based Authentication Using MEMS Sensors in Smartphones
16:30 – 17:30	**SRF** poster session

Tuesday, January 29, 2019

9:00 – 10:30	**invited talk** *Martin Theobald (University of Luxembourg)* From Big Data to Big Knowledge: Large-Scale Information Extraction based on Statistical Methods	

11:00 – 11:25	*Hans L. Bodlaender, Marieke van der Wegen and Tom C. van der Zanden* Stable divisorial gonality is in NP	*Isela Mendoza, Uéverton Souza, Marcos Kalinowski, Ruben Interian and Leonado Murta* An Efficient Algorithm for Combining Verification & Validation Methods
11:25 – 11:50	*Nils Donselaar* Probabilistic Parameterized Polynomial Time	*Mahsa Varshosaz and Mohammadreza Mousavi* Comparative Expressiveness of Product Line Calculus of Communicating Systems and 1-Selecting Modal Transition Systems
11:50 – 12:15	*Manoj Gupta, Hitesh Kumar and Neeldhara Misra* On the Complexity of Optimal Matching Reconfiguration	

conference trip at 13:00

Wednesday, January 30, 2019

9:00 – 10:30	**invited talk** *Uwe Assmann (TU Dresden)* Cross-Layer Adaptation in Multi-Layer Autonomic Systems

11:00 – 11:25	*Friedrich Otto and Benedek Nagy* Two-Head Finite-State Acceptors with Translucent Letters	*Nikolajs Nahimovs* Lackadaisical quantum walks with multiple marked vertices
11:25 – 11:50	*Tomoyuki Yamakami* Behavioral Strengths and Weaknesses of Various Models or Limited Automata	*Chong Gao, Taolue Chen and Zhilin Wu* Separation Logic with Linearly Compositional Inductive Predicates and Set Data Constraints
11:50 – 12:15	*Martin Raszyk* On the Size of Logical Automata	*Ali Parsai and Serge Demeyer* Do Null-Type Mutation Operators Help Prevent Null-Type Faults?

15:30 – 17:00	**invited talk** *Christos Kapoutsis (Carnegie Mellon University in Qatar)* Minicomplexity – Some motivation, some history, and some structure

17:15 – 17:40	*Ferdinando Cicalese, Zsuzsanna Liptak and Massimiliano Rossi* On Infinite Prefix Normal Words	*Roland Molontay and Kitti Varga* On the complexity of color-avoiding site and bond percolation
17:40 – 18:05	*Vladislav Makarov and Alexander Okhotin* On the expressive power of $GF(2)$-grammars	*Christian Komusiewicz and Frank Sommer* Enumerating Connected Induced Subgraphs: Improved Delay and Experimental Comparison
18:05 – 18:30	*Martin Kutrib and Matthias Wendlandt* Multi-Stranded String Assembling Systems	*Frank Gurski and Carolin Rehs* Forbidden Directed Minors, Directed Path-Width and Directed Tree-Width of Tree-like Digraphs

conference dinner at 19:00