

Queries

- 9:00 – 9:30 Complexity of Data Tree Patterns over XML Documents
Claire David
- 9:30 – 10:00 Optimizing Conjunctive Queries over Trees using Schema Information
Henrik Björklund, Wim Martens and Thomas Schwentick
- 10:00 – 10:30 Smoothed Analysis of Binary Search Trees and Quicksort under Additive Noise
Bodo Manthey and Till Tantau

10:30 – 11:00 **Coffee Break**

Cryptography

- 11:00 – 11:30 Sincere-Strategy Preference-Based Approval Voting Broadly Resists Control
Gábor Erdélyi, Markus Nowak and Jörg Rothe
- 11:30 – 12:00 Step-out Ring Signatures
Marek Klonowski, Łukasz Krzywiecki, Mirosław Kutylowski and Anna Lauks

12:00 – 12:10 **Cigarette Break**

Invited Lecture by **Piotr Sankowski**

- 12:10 – 13:10 Algebraic Graph Algorithms
Piotr Sankowski

13:10 – 15:30 free time 13:10 – 15:30 free time 13:10 – 15:30

Coloring

- 15:30 – 16:00 A Note on k -colourability of P_5 -free Graphs
Chinh T. Hoàng, Marcin Kamiński, Vadim Lozin, Joe Sawada and Xiao Shu
- 16:00 – 16:30 Colouring Random Empire Trees
Andrew R. McGrae and Michele Zito

16:30 – 17:00 **Coffee Break**

Languages I

- 17:00 – 17:30 The Height of Factorization Forests
Manfred Kufleitner
- 17:30 – 18:00 Succinctness of Regular Expressions with Interleaving, Intersection and Counting
Wouter Gelade

----- 18:10 ----- welcome party ----- 18:10 -----

Logic I

- 9:00 – 9:30 A Complete Axiomatic System for a Process-Based Spatial Logic
Radu Mardare and Alberto Policriti
- 9:30 – 10:00 Complexity and Asymptotic Density of Boolean Functions over Implication
Hervé Fournier, Danièle Gardy, Antoine Genitrini and Bernhard Gittenberger
- 10:00 – 10:30 Monadic Second Order Logic on Graphs with Local Cardinality Constraints
Stefan Szeider

10:30 – 11:00 **Coffee Break**

Models

- 11:00 – 11:30 Directed Percolation Arising in Stochastic Cellular Automata Analysis
Damien Regnault
- 11:30 – 12:00 Computational Complexity of Perfect-Phylogeny-Related Haplotyping Problems
Michael Elberfeld and Till Tantau

12:00 – 12:10 **Cigarette Break**

Invited Lecture by **Jean-Éric Pin**

- 12:10 – 13:10 A Robust Class of Regular Languages
Antonio Cano Gómez and Jean-Éric Pin

13:10 – 15:30 free time 13:10 – 15:30 free time 13:10 – 15:30

Games I

- 15:30 – 16:00 When Ignorance Helps: Graphical Multicast Cost Sharing Games
Vittorio Bilò, Angelo Fanelli, Michele Flammini and Luca Moscardelli
- 16:00 – 16:30 Voronoi Games on Cycle Graphs
Marios Mavronicolas, Burkhard Monien, Vicky G. Papadopoulou and Florian Schoppmann

16:30 – 17:00 **Coffee Break**

Automata and Machines I

- 17:00 – 17:30 Reversal-Bounded Counter Machines Revisited
Alain Finkel and Arnaud Sangnier
- 17:30 – 18:00 On the Decidability of Bounded Valuedness for Transducers
Jacques Sakarovitch and Rodrigo de Souza

18:30 Torunian gingerbreads in Copernicus House Group 1

Medley

- 9:00 – 9:30 On the Shortest Linear Straight-line Program for Computing Linear Forms
Joan Boyar, Philip Matthews and René Peralta
- 9:30 – 10:00 Clustering with Partial Information
Hans L. Bodlaender, Michael R. Fellows, Pinar Heggernes, Federico Mancini, Charis Papadopoulos and Frances A. Rosamond
- 10:00 – 10:30 A New Upper Bound for Max-2-SAT: A Graph-Theoretic Approach
Daniel Raible and Henning Fernau

10:30 – 11:00 **Coffee Break**

Logic II

- 11:00 – 11:30 From Lambda Calculus to Universal Algebra and Back
Giulio Manzonetto and Antonino Salibra
- 11:30 – 12:00 Short Proofs of Strong Normalization
Aleksander Wojdyga

12:00 – 12:10 **Cigarette Break**

Invited Lecture by **Ursula Goltz**

- 12:10 – 13:10 On Synchronous and Asynchronous Interaction in Distributed Systems
Rob van Glabbeek, Ursula Goltz and Jens-Wolfhard Schicke

13:10 – 15:30 free time 13:10 – 15:30 free time 13:10 – 15:30

Automata and Machines II

- 15:30 – 16:00 Nilpotency and Limit Sets of Cellular Automata
Pierre Guillon and Gaétan Richard
- 16:00 – 16:30 Periodicity and Immortality in Reversible Computing
Jarkko Kari and Nicolas Ollinger

16:30 – 17:00 **Coffee Break**

Games II

- 17:00 – 17:30 Positional Strategies for Higher-Order Pushdown Parity Games
Arnaud Carayol and Michaela Slaats
- 17:30 – 18:00 Question/Answer Games on Towers and Pyramids
Sarmad Abbasi and Numan Sheikh

18:30 Torunian gingerbreads in Copernicus House Group 2

Approximation

- 9:00 – 9:30 A $6/5$ -Approximation Algorithm for the Maximum 3-Cover Problem
Ioannis Caragiannis and Gianpiero Monaco
- 9:30 – 10:00 Approximating Independent Set and Coloring in Random Uniform Hypergraphs
Kai Plociennik
- 10:00 – 10:30 A PTAS for the Sparsest Spanners Problem on Apex-Minor-Free Graphs
Feodor F. Dragan, Fedor V. Fomin and Petr A. Golovach

10:30 – 11:00

Coffee Break**Circuits**

- 11:00 – 11:30 Lower Bounds for Syntactically Multilinear Algebraic Branching Programs
Maurice J. Jansen
- 11:30 – 12:00 Arithmetic Circuits, Syntactic Multilinearity, and the Limitations of Skew Formulae
Meena Mahajan and B. V. Raghavendra Rao

12:00 – 12:10

Cigarette BreakInvited Lecture by **Yuri Gurevich**

- 12:10 – 13:10 One Useful Logic That Defines Its Own Truth
Andreas Blass and Yuri Gurevich

13:10 – 15:30 free time 13:10 – 15:30 free time 13:10 – 15:30

Around NP I

- 15:30 – 16:00 Computing Sharp 2-Factors in Claw-Free Graphs
Hajo Broersma and Daniël Paulusma
- 16:00 – 16:30 Reoptimization of the Metric Deadline TSP
Hans-Joachim Böckenhauer and Dennis Komm

16:30 – 17:00

Coffee Break**Languages II**

- 17:00 – 17:30 Regional Languages and Tiling: a Unifying Approach to Picture Grammars
Alessandra Cherubini, Stefano Crespi Reghizzi and Matteo Pradella
- 17:30 – 18:00 A Decision Problem for Ultimately Periodic Sets in Non-standard Numeration Systems
Emilie Charlier and Michel Rigo

----- 19:00 ----- outdoor grill party ----- 19:00 -----

Geometry

- 9:00 – 9:30 Resolution Width and Cutting Plane Rank are Incomparable
Mark Rhodes
- 9:30 – 10:00 Combinatorial Bounds and Algorithmic Aspects of Image Matching under Projective Transformations
Christian Hundt and Maciej Liškiewicz
- 10:00 – 10:30 Flip Algorithm for Segment Triangulations
Mathieu Brévilliers, Nicolas Chevallier and Dominique Schmitt

10:30 – 11:00 **Coffee Break**

Complexity

- 11:00 – 11:30 A Random Oracle Does Not Help Extract the Mutual Information
Andrei Muchnik and Andrei Romashchenko
- 11:30 – 12:00 Arthur and Merlin as Oracles
Venkatesan T. Chakaravarthy and Sambuddha Roy

12:00 – 12:10 **Cigarette Break**

Invited Lecture by **Rastislav Kráľovič**

- 12:10 – 13:10 Deterministic Models of Communication Faults
Rastislav Kráľovič and Richard Kráľovič

13:10 – 15:30 free time 13:10 – 15:30 free time 13:10 – 15:30

Languages III

- 15:30 – 16:00 Shortest Synchronizing Strings for Huffman Codes
Marek Biskup
- 16:00 – 16:30 On a Special Class of Primitive Words
Elena Czeizler, Lila Kari and Shinnosuke Seki

16:30 – 17:00 **Coffee Break**

Around NP II

- 17:00 – 17:30 The Maximum Independent Set Problem in Planar Graphs
Vladimir E. Alekseev, Vadim Lozin, Dmitriy Malyshev and Martin Milanič
- 17:30 – 18:00 Iterative Compression and Exact Algorithms
Fedor V. Fomin, Serge Gaspers, Dieter Kratsch, Mathieu Liedloff and Saket Saurabh

----- the end ----- the end ----- the end -----
