

Program ALGO 2006

September 11-15, ETH Zürich

Version from 6th September 2006

Monday, September 11th, Morning

08:50–09:00	Opening Remarks (Room ML D28)		
09:00–09:50	Plenary Talk (Room ML D28)		
	László Lovász: Sampling, integration and volume computation by Markov chains		
09:50–10:00	Short Break		
	ESA 1 (Room CAB G11) Chair: Yossi Azar	ESA 2 (Room CAB G61) Chair: Friedhelm Meyer auf der Heide	WABI 1 (Room CAB G51)
10:00–10:25	A Unified Approach to Approximating Partial Covering Problems <i>Jochen Könnemann, Ojas Parekh, and Danny Segev</i>	Navigating Low-Dimensional and Hierarchical Population Networks <i>Ravi Kumar, David Liben-Nowell, and Andrew Tomkins</i>	Measures of Codon Bias in Yeast, the tRNA Pairing Index, and Possible DNA Repair Mechanisms <i>Markus Friberg, Pedro Gonnet, Yves Barral, Nicol Schraudolph, and Gaston Gonnet</i>
10:25–10:50	Approximate k -Steiner Forests via the Lagrangian Relaxation Technique with Internal Preprocessing <i>Danny Segev and Gil Segev</i>	A doubling dimension threshold $\theta(\log \log n)$ for augmented graphs navigability <i>Pierre Fraigniaud, Emmanuelle Lebhar, and Zvi Lotker</i>	Decomposing Metabolomic Isotope Patterns <i>Sebastian Böcker, Matthias Letzel, Zsuzsanna Lipták, and Anton Pervukhin</i>
10:50–11:15	Coffee Break		
	ESA 3 (Room CAB G11) Chair: Dimitris Fotakis	ESA 4 (Room CAB G61) Chair: Gerth S. Brodal	WABI 2 (Room CAB G51)
11:15–11:40	Efficient Computation of Nash Equilibria for Very Sparse Win-Lose Bimatrix Games <i>Bruno Codenotti, Mauro Leoncini, and Giovanni Resta</i>	Less Hashing, Same Performance: Building a Better Bloom Filter <i>Adam Kirsch and Michael Mitzenmacher</i>	A Method to Design Standard HMMs with Desired Length Distribution for Biological Sequence Analysis <i>Hongmei Zhu, Jiaxin Wang, Zehong Yang, and Yixu Song</i>
11:40–12:05	Cheating by Men in the Gale-Shapley Stable Matching Algorithm <i>Chien-Chung Huang</i>	Negative Examples for Sequential Importance Sampling of Binary Contingency Tables <i>Ivona Bezakova, Alistair Sinclair, Daniel Štefankovič, and Eric Vigoda</i>	Efficient Model-Based Clustering for LC-MS Data <i>Marta Łuksza, Bogusław Kluge, Jerzy Ostrowski, Jakub Karczmariski, and Anna Gambin</i>
12:05–12:30	Taxes for linear atomic congestion games <i>Ioannis Caragiannis, Christos Kaklamanis, and Panagiotis Kanellopoulos</i>	Stochastic Shortest Paths via Quasi-Convex Maximization <i>Evdokia Nikolova, Michael Mitzenmacher, Jonathan A. Kelner, and Matthew Brand</i>	A Bayesian Algorithm for Reconstructing Bacterial Signaling Networks <i>Lukas Burger and Erik van Nimwegen</i>
12:30–14:00	Lunch Break		

Monday, September 11th, Afternoon

	ESA 5 (Room CAB G11) Chair: Leah Epstein	ESA 6 (Room CAB G61) Chair: Thomas Erlebach	WABI 3 (Room CAB G51)
14:00–14:25	Approximation results for preemptive stochastic online scheduling <i>Nicole Megow and Tjark Vredeveld</i>	The Engineering of a Compression Boosting Library: Theory vs Practice in BWT compression <i>Paolo Ferragina, Raffaele Giancarlo, and Giovanni Manzini</i>	Linear-Time Haplotype Inference on Pedigree without Recombinations <i>Mee Yee Chan, Wun-Tat Chan, Francis Chin, Stanley Fung and Ming-Yang Kao</i>
14:25–14:50	Preemptive Online Scheduling: Optimal Algorithms for All Speeds <i>Tomáš Ebenlendr, Wojciech Jawor, and Jirí Sgall</i>	An Improved Construction for Counting Bloom Filters <i>Flavio Bonomi, Michael Mitzenmacher, Rina Panigrahy, Sushil Singh, and George Varghese</i>	Phylogenetic Network Inferences through Efficient Haplotyping <i>Yinglei Song, Chunmei Liu, Russell Malmberg, and Liming Cai</i>
14:50–15:15	Lower and Upper Bounds on FIFO Buffer Management in QoS Switches <i>Matthias Englert and Matthias Westermann</i>	Engineering Highway Hierarchies <i>Peter Sanders and Dominik Schultes</i>	Beaches of Islands of Tractability: Algorithms for Parsimony and Minimum Perfect Phylogeny Haplotyping Problems <i>Leo van Iersel, Judith Keijsper, Steven Kelk, and Leen Stougie</i>
15:15–15:40	Competitive Analysis of Flash-Memory Algorithms <i>Avraham Ben-Aroya and Sivan Toledo</i>	Does Path Cleaning Help in Dynamic All-Pairs Shortest Paths? <i>Camil Demetrescu, Pompeo Faruolo, Giuseppe F. Italiano, and Mikkel Thorup</i>	On the Complexity of SNP Block Partitioning Under the Perfect Phylogeny Model <i>Jens Gramm, Tzvika Hartman, Till Nierhoff, Roded Sharan, and Till Tantau</i>
15:40–16:10	Coffee Break		
	ESA 7 (Room CAB G11) Chair: Rob van Stee	ESA 8 (Room CAB G61) Chair: Dan Halperin	WABI 4 (Room CAB G51)
16:10–16:35	Resource Allocation in Bounded Degree Trees <i>Reuven Bar-Yehuda, Michael Beder, Yuval Cohen, and Dror Rawitz</i>	Algorithmic Aspects of Proportional Symbol Maps <i>Sergio Cabello, Herman Haverkort, Marc van Kreveld, and Bettina Speckmann</i>	How Many Transcripts does it Take to Reconstruct the Splice Graph? <i>Paul Jenkins, Rune Lyngsø, and Jotun Hein</i>
16:35–17:00	Graph coloring with rejection <i>Leah Epstein, Asaf Levin, and Gerhard Woeginger</i>	Kinetic Algorithms via Self-Adjusting Computation <i>Umut Acar, Guy Blelloch, Kanat Tangwongsan, and Jorge Vittes</i>	Multiple Structure Alignment and Consensus Identification for Proteins <i>Jieping Ye, Ivaylo Ilinkin, Ravi Janardan, and Adam Isom</i>
17:00–17:25	Single machine precedence constrained scheduling is a vertex cover problem <i>Christoph Ambühl and Monaldo Mastrolilli</i>	Out-of-Order Event Processing in Kinetic Data Structures <i>Mohammad Ali Abam, Pankaj Agarwal, Mark de Berg, and Hai Yu</i>	Procrastination Leads to Efficient Filtration for Local Multiple Alignment <i>Aaron Darling, Todd Treangen, Louxin Zhang, Carla Kuiken, Xavier Messeguer, and Nicole Perna</i>
17:25–17:50	Finding total unimodularity in optimization problems solved by linear programs <i>Christoph Dürr and Mathilde Hurand</i>	Reporting Flock Patterns <i>Marc Benkert, Joachim Gudmundsson, Florian Hübner, and Thomas Wollé</i>	Controlling Size when Aligning Multiple Genomic Sequences with Duplications <i>Minmei Hou, Piotr Berman, Louxin Zhang, and Webb Miller</i>
18:00–20:00	Reception (CABinett)		

Tuesday, September 12th, Morning

09:00–09:50	Plenary Talk (Room ML D28)		
	Kurt Mehlhorn: Reliable and Efficient Geometric Computing		
09:50–10:00	Short Break		
	ESA 9 (Room CAB G11) Chair: Susanne Albers	ESA 10 (Room CAB G61) Chair: Rolf Niedermeier	WABI 5 (Room CAB G51)
10:00–10:25	Greedy in Approximation Algorithms <i>Julian Mestre</i>	Multiline Addressing by Network Flow <i>Friedrich Eisenbrand, Andreas Karrenbauer, Martin Skutella, and Chihao Xu</i>	Reducing Distortion in Phylogenetic Networks <i>Daniel Huson, Mike Steel, and Jim Whitfield</i>
10:25–10:50	Popular Matchings in the Capacitated House Allocation Problem <i>David Manlove and Colin Sng</i>	On exact algorithms for treewidth <i>Hans Bodlaender, Fedor Fomin, Arie Koster, Dieter Kratsch, and Dimitrios Thilikos</i>	Imputing Supertrees and Supernetworks from Quartets <i>Barbara Holland, Glenn Conner, Katharina Huber, and Vincent Moulton</i>
10:50–11:15	Coffee Break		
	ESA 11 (Room CAB G11) Chair: Andrew Goldberg	ESA 12 (Room CAB G61) Chair: Ulrich Meyer	WABI 6 (Room CAB G51)
11:15–11:40	Approximating almost all instances of Max-Cut within a ratio above the Hastad threshold <i>Alexis Kaporis, Lefteris Kirousis, and Elias Stavropoulos</i>	The Price of Resiliency: A Case Study on Sorting with Memory Faults <i>Umberto Ferraro Petrillo, Irene Finocchi, and Giuseppe Italiano</i>	A Unifying View of Genome Rearrangements <i>Anne Bergeron, Julia Mixtacki, and Jens Stoye</i>
11:40–12:05	Balancing Applied to Maximum Network Flow Problems <i>Robert Tarjan, Julie Ward, Bin Zhang, Yunhong Zhou, and Jia Mao</i>	How Branch Mispredictions Affect Quicksort <i>Kanela Kaligosi and Peter Sanders</i>	Efficient Sampling of Transpositions and Inverted Transpositions for Bayesian MCMC <i>István Miklós, Timothy Brooks Paige, and Péter Ligeti</i>
12:05–12:30	Finite Termination of “Augmenting Path” Algorithms in the Presence of Irrational Problem Data <i>Brian Dean, Michel Goemans, and Nicole Immorlica</i>	Skewed Binary Search Trees <i>Gerth Brodal and Gabriel Moruz</i>	Alignment with Nonoverlapping Inversions in Cubic Time <i>Augusto Vellozo, Carlos Eduardo Alves, and Alair do Lago</i>
12:30–14:00	Lunch Break		
14:00–14:50	Plenary Talk (Room ML D28)		
	Lisa Fleischer: Finding Equilibria through Natural Play: Tatonnement and the Market Problem		
14:50–15:00	Short Break		

Tuesday, September 12th, Afternoon

	ESA 13 (Room CAB G11) Chair: Lars Arge	ESA 14 (Room CAB G61) Chair: Bettina Speckmann	WABI 7 (Room CAB G51)
15:00–15:25	Violator Spaces: Structure and Algorithms <i>Bernd Gärtner, Jiří Matoušek, Leo Rüst, and Petr Skovron</i>	On the Complexity of the Multiplication Method for Monotone CNF/DNF Dualization <i>Khaled Elbassioni</i>	Accelerating Motif Discovery: Motif Matching on Parallel Hardware <i>Geir Kjetil Sandve, Magnar Nedland, Oyvind Bo Syrstad, Lars Andreas Eidsheim, Osman Abul, and Finn Drablos</i>
15:25–15:50	Path Hitting in Acyclic Graphs <i>Ojas Parekh and Danny Segev</i>	An LP-Designed Algorithm for Constraint Satisfaction <i>Alexander Scott and Gregory Sorkin</i>	Segmenting Motifs in Protein-Protein Interface Surfaces <i>Jeff M. Phillips, Johannes Rudolph, and Pankaj K. Agarwal</i>
15:50–16:20	Coffee Break		
	ESA 15 (Room CAB G11) Chair: Hans Bodlaender	ESA 16 (Room CAB G61) Chair: Mariette Yvinec	WABI 8 (Room CAB G51)
16:20–16:45	Dynamic Programming and Fast Matrix Multiplication <i>Frederic Dorn</i>	Kinetic Collision Detection for Convex Fat Objects <i>Mohammad Ali Abam, Mark de Berg, Sheung-Hung Poon, and Bettina Speckmann</i>	Protein Sidechain Placement through MAP Estimation and Problem-Size Reduction <i>Eun-Jong Hong and Tomás Lozano-Pérez</i>
16:45–17:10	An $O(n^3(\log \log n / \log n)^{5/4})$ Time Algorithm for All Pairs Shortest Path <i>Yijie Han</i>	Traversing the Machining Graph <i>Danny Chen, Rudolf Fleischer, Jian Li, and Haitao Wang</i>	On the Complexity of the Crossing Contact Map Pattern Matching Problem <i>Shuai Cheng Li and Ming Li</i>
17:10–17:35	I/O-Efficient Undirected Shortest Paths with Unbounded Weights <i>Ulrich Meyer and Norbert Zeh</i>	Frechet Distance for Curves, Revisited <i>Boris Aronov, Sariel Har-Peled, Christian Knauer, Yusu Wang, and Carola Wenk</i>	A Fuzzy Dynamic Programming Approach to Predict RNA Secondary Structure <i>Dandan Song and Zhidong Deng</i>
17:35–18:00	Cooperative TSP <i>Amitai Armon, Adi Avidor, and Oded Schwartz</i>	Dynamic Connectivity for Axis-Parallel Rectangles <i>Peyman Afshani and Timothy Chan</i>	Landscape Analysis for Protein Folding Simulation in the H-P Model <i>Kathleen Steinhöfel, Alexandros Skaliotis, and Andreas A. Albrecht</i>
18:00–18:25	ESA Business Meeting		Rapid ab initio RNA Folding Including Pseudoknots via Graph Tree Decomposition <i>Jizhen Zhao, Russell Malmberg, and Liming Cai</i>
18:25–18:45			
18:45–19:15			WABI Business Meeting

Wednesday, September 13th, Morning

09:00–09:50	Plenary Talk (Room ML D28)			
	Ron Shamir: Some Computational Challenges in Today's Bio-Medicine			
09:50–10:00	Short Break			
	ESA 17 (Room CAB G11) Chair: Norbert Zeh	ESA 18 (Room CAB G61) Chair: Christos Zaroliagis	WABI 9 (Room CAB G51)	IWPEC 1 (Room CAB G59) Chair: Dieter Kratsch
10:00–10:25	Latency Constrained Aggregation in Sensor Networks <i>Luca Becchetti, Peter Korteweg, Alberto Marchetti-Spaccamela, Martin Skutella, Leen Stougie, and Andrea Vitaletti</i>	Spanners with Slack <i>T-H. Hubert Chan, Michael Dinitz, and Anupam Gupta</i>	Flux-Based vs. Topology-Based Similarity of Metabolic Genes <i>Oleg Rokhlenko, Tomer Shlomi, Roded Sharan, Eytan Ruppín, and Ron Pinter</i>	Applying modular decomposition to parameterized bicluster editing <i>Fábio Protti, Maise Dantas da Silva, and Jayme Luiz Swarcfiter</i>
10:25–10:50	Contention Resolution with Heterogeneous Job Sizes <i>Michael Bender, Jeremy Fineman, and Seth Gilbert</i>	Dynamic Algorithms for Maintaining Graph Spanners <i>Surender Baswana</i>	Combinatorial Methods for Disease Association Search and Susceptibility Prediction <i>Dumitru Brinza and Alexander Zelikovsky</i>	The Cluster Editing Problem: Implementations and Experiments <i>Frank Dehne, Michael Langston, Xuemei Luo, Sylvain Pitre, Peter Shaw, and Yun Zhang</i>
10:50–11:15	Coffee Break			
	ESA 19 (Room CAB G11) Chair: Lisa Fleischer	ESA 20 (Room CAB G61) Chair: Stefan Szeider	WABI 10 (Room CAB G51)	IWPEC 2 (Room CAB G59) Chair: Fedor Fomin
11:15–11:40	Subspace Sampling and Relative-Error Matrix Approximation: Column-Row-Based Methods <i>Petros Drineas, Michael Mahoney, and S. Muthukrishnan</i>	Univariate polynomial real root isolation: Continued Fractions revisited <i>Iaonnis Emiris and Elias Tsigaridas</i>	Integer Linear Programs for Discovering Approximate Gene Clusters <i>Sven Rahmann and Gunnar Klau</i>	The Parameterized Complexity of Maximality and Minimality Problems <i>Yijia Chen and Jörg Flum</i>
11:40–12:05	Spectral Clustering by Recursive Partitioning <i>Anirban Dasgupta, John Hopcroft, Ravi Kannan, and Pradipta Mitra</i>	Exact and Efficient Construction of Planar Minkowski Sums using the Convolution Method <i>Ron Wein</i>	Approximation Algorithms for Biclustering Problems <i>Lusheng Wang, Yu Lin, and Xiaowen Liu</i>	Parameterizing MAXSNP problems above Guaranteed Values <i>Meena Mahajan, Venkatesh Raman, and Somnath Sikdar</i>
12:05–12:30	Region-Restricted Clustering for Geographic Data Mining <i>Joachim Gudmundsson, Marc van Kreveld, and Giri Narasimham</i>	Robust, Generic and Efficient Construction of Envelopes of Surfaces in Three-Dimensional Space <i>Michal Meyerovitch</i>	Improving the Layout of Oligonucleotide Microarrays: Pivot Partitioning <i>Sven Rahmann and Sérgio A. de Carvalho Jr.</i>	Randomized approximations of parameterized counting problems <i>Moritz Müller</i>
12:30–14:00	Lunch Break			

Wednesday, September 13th, Afternoon (I)

14:00–14:50	Plenary Talk (Room ML D28)			
	Erik D. Demaine: Origami, Linkages, and Polyhedra: Folding with Algorithms			
14:50–15:00	Short Break			
	ESA 21 (Room CAB G11) Chair: Mark de Berg	ESA 22 (Room CAB G61) Chair: Lene M. Favrholdt	WABI 11 (Room CAB G51)	IWPEC 3 (Room CAB G59) Chair: Dániel Marx
15:00–15:25	Necklaces, Convolutions, and $X+Y$ <i>David Bremner, Timothy Chan, Erik Demaine, Jeff Erickson, Ferran Hurtado, John Iacono, Stefan Langerman, Ileana Streinu, and Perouz Taslakian</i>	Parallel machine scheduling through column generation: minimax objective functions <i>Marjan van den Akker, Han Hoogeveen, and Jules van Kempen</i>	Accelerating the Computation of Elementary Modes Using Pattern Trees <i>Marco Terzer and Jörg Stelling</i>	Fixed-Parameter Complexity of Minimum Profile Problems <i>Gregory Gutin, Stefan Szeider, and Anders Yeo</i>
15:25–15:50	Inner-Product Based Wavelet Synopses for Range-Sum Queries <i>Yossi Matias and Daniel Urieli</i>	An MINLP solution method for a water network problem <i>Cristiana Bragalli, Claudia D'Ambrosio, Jon Lee, Andrea Lodi, and Paolo Toth</i>	A Linear-Time Algorithm for Studying Genetic Variation <i>Nikola Stojanovic and Piotr Berman</i>	On the OBDD Size for Graphs of Bounded Tree- and Clique-Width <i>Klaus Meer and Dieter Rautenbach</i>
15:50–16:20	Coffee Break			
	ESA 23 (Room CAB G11) Chair: Subhash Suri	ESA 24 (Room CAB G61) Chair: Jan Kratochvíl	WABI 12 (Room CAB G51)	IWPEC 4 (Room CAB G59) Chair: Jörg Flum
16:20–16:45	Purely Functional Worst Case Constant Time Catenable Sorted Lists <i>Gerth Brodal, Christos Makris, and Kostas Tsichlas</i>	Deciding Relaxed Two-Colorability - A Hardness Jump <i>Robert Berke and Tibor Szabó</i>	New Constructive Heuristics for DNA Sequencing by Hybridization <i>Christian Blum and Mateu Yábar Vallès</i>	Fixed-Parameter Approximation: Conceptual Framework and Approximability Results <i>Liming Cai and Xiuzhen Huang</i>

Wednesday, September 13th, Afternoon (II)

	ESA 23 (Room CAB G11) Chair: Subhash Suri	ESA 24 (Room CAB G61) Chair: Jan Kratochvíl	WABI 12 (Room CAB G51)	IWPEC 4 (Room CAB G59) Chair: Jörg Flum
16:45–17:10	Compressed Indexes for Approximate String Matching <i>Ho-Leung Chan, Tak-Wah Lam, Wing-Kin Sung, Siu-Lung Tam, and Swee-Seong Wong</i>	Minimum Transversals in Posimodular Systems <i>Mariko Sakashita, Kazuhisa Makino, Hiroshi Nagamochi, and Satoru Fujishige</i>	Optimal Probing Patterns for Sequencing By Hybridization <i>Dekel Tsur</i>	On Parameterized Approximability <i>Yijia Chen, Martin Grohe, and Magdalena Grüber</i>
17:10–17:35	Near-Entropy Hotlink Assignments <i>Karim Douieb and Stefan Langerman</i>	Distributed almost exact approximations for minor-closed families <i>Andrzej Czygrinow and Michał Hańćkowiak</i>	Gapped Permutation Patterns for Comparative Genomics <i>Laxmi Parida</i>	Parameterized Approximation Algorithms <i>Rodney Downey, Michael Fellows, and Catherine McCartin</i>
17:35–18:00	Estimating Entropy over Data Streams <i>Lakshminath Bhuvanagiri and Sumit Ganguly</i>	Enumerating Spanning and Connected Subsets in Graphs and Matroids <i>Leonid Khachiyan, Endre Boros, Konrad Borys, Khaled Elbassioni, Vladimir Gurvich, and Kazuhisa Makino</i>	Segmentation with an Isochore Distribution <i>Miklós Csűrös, Ming-Te Cheng, Andreas Grimm, Amine Halawani, and Perrine Landreau</i>	
18:15–20:00	Reception (Dozentenfoyer)			

Thursday, September 14th, Morning

09:00–09:50	Plenary Talk (Room ML D28)		
	Ralf Borndörfer: Directions in Railway and Public Transport Optimization		
09:50–10:00	Short Break		
	IWPEC 5 (Room CAB G11) Chair: Frank Dehne	WAOA 1 (Room CAB G61) Chair: Rudolf Fleischer	ATMOS 1 (Room CAB G51)
10:00–10:25	An Exact Algorithm for the Minimum Dominating Clique Problem <i>Dieter Kratsch and Mathieu Liedloff</i>	Online k-server routing problems <i>Vincenzo Bonifaci and Leen Stougie</i>	Tutorial: Next Generation Decision Support Systems in Railroad Scheduling <i>Ravi Ahuja</i>
10:25–10:50	Edge Dominating Set: efficient enumeration-based exact algorithms <i>Henning Fernau</i>	Theoretical Evidence for the Superiority of LRU-2 over LRU for the Paging Problem <i>Joan Boyar, Martin Ehmsen, and Kim S. Larsen</i>	
10:50–11:15	Coffee Break		
	IWPEC 6 (Room CAB G11) Chair: Erik D. Demaine	WAOA 2 (Room CAB G61) Chair: Kim S. Larsen	ATMOS 2 (Room CAB G51)
11:15–11:40	Parameterized Complexity of Independence and Domination on Geometric Graphs <i>Dániel Marx</i>	On bin packing with conflicts <i>Leah Epstein and Asaf Levin</i>	A Column Generation Approach for the Rail Crew Re-Scheduling Problem <i>Dennis Huisman</i>
11:40–12:05	Fixed Parameter Tractability of Independent Set in Segment Intersection Graphs <i>Jan Kára and Jan Kratochvíl</i>	Bin packing with rejection revisited <i>Leah Epstein</i>	An An Efficient MIP Model for Locomotive Scheduling with Time Windows <i>Martin Aronsson, Per Kreuger, and Jonata Gjerdum</i>
12:05–12:30	On the parameterized complexity of d-dimensional point set pattern matching <i>Sergio Cabello, Panos Giannopoulos, and Christian Knauer</i>	Improved online hypercube packing <i>Xin Han, Deshi Ye, and Yong Zhou</i>	Locomotive and Wagon Scheduling in Freight Transport <i>Armin Fügenschuh, Henning Homfeld, Andreas Huck, and Alexander Martin</i>
12:30–14:00	Lunch Break		

Thursday, September 14th, Afternoon

	IWPEC 7 (Room CAB G11) Chair: Jan Arne Telle	WAOA 3 (Room CAB G61) Chair: Martin Fürer	ATMOS 3 (Room CAB G51)
14:00–14:25	Finding a Minimum Feedback Vertex Set in time $O(1.7548^n)$ <i>Fedor Fomin, Serge Gaspers, and Artem Pyatkin</i>	Approximating Maximum Cut with Limited Unbalance <i>Giulia Galbiati and Francesco Maffioli</i>	Periodic Metro Scheduling <i>Evangelos Bampas, Georgia Kaouri, Michael Lampis, and Aris Pagourtzis</i>
14:25–14:50	The Undirected Feedback Vertex Set Problem Has a Poly(k) Kernel <i>Kevin Burrage, Vladimir Estivill-Castro, Michael Fellows, Michael Langston, Shev Mac, and Frances Rosamond</i>	Network Design with Edge-Connectivity and Degree Constraints <i>Takuro Fukunaga and Hiroshi Nagamochi</i>	A Game-Theoretic Approach to Line Planning <i>Anita Schöbel and Silvia Schwarze</i>
14:50–15:15	Fixed-parameter tractability results for Full-Degree Spanning Tree and its dual <i>Jiong Guo, Rolf Niedermeier, and Sebastian Wernicke</i>	Improved Approximation Bounds for Edge Dominating Set in Dense Graphs <i>Jean Cardinal, Stefan Langerman, and Eythan Levy</i>	QoS-aware Multicommodity Flows and Transportation Planning <i>George Tsaggouris and Christos Zaroliagis</i>
15:15–15:45	Coffee Break		
	IWPEC 8 (Room CAB G11) Chair: Michael A. Langston	WAOA 4 (Room CAB G61) Chair: Rob van Stee	ATMOS 4 (Room CAB G51)
15:45–16:10	Invited Talk: Frank Dehne: FPT At Work: Using fixed parameter tractability to solve larger instances of hard problems	Bidding to the Top: VCG and Equilibria of Position-Based Auctions <i>Gagan Aggarwal, Jon Feldman, and S. Muthukrishnan</i>	Robustness and Recovery in Train Scheduling - a Case Study from DSB S-tog a/s <i>Mads Hofman, Line Madsen, Julie Jespersen Groth, Jens Clausen, and Jesper Larsen</i>
16:10–16:35		The survival of the weakest in networks <i>Sotiris Nikolettseas, Christoforos Raptopoulos, and Paul Spirakis</i>	Freight Service Design for the Italian Railways Company <i>Marco Campetella, Guglielmo Lulli, Ugo Pietropaoli, and Nicoletta Ricciardi</i>
16:35–16:45	Greedy Localization, Color-Coding, and Dynamic programming: Improved Algorithms for Matching and Packing Problems <i>Yang Liu, Songjian Lu, Jianer Chen, and Sing-Hoi Sze</i>	An Experimental Study of the Misdirection Algorithm for Combinatorial Auctions <i>Piotr Krysta and Jörg Knoche</i>	Short Break
16:45–17:00			ATMOS Business Meeting
17:00–17:10	IWPEC Business Meeting	Short Break	
17:10–17:35		Approximation Algorithms for Multi-Criteria Traveling Salesman Problems <i>Bodo Manthey and L. Shankar Ram</i>	
17:35–18:00		Worst Case Analysis of Max-Regret and Other Heuristics for Multidimensional Assignment and Traveling Salesman Problems <i>Gregory Gutin, Boris Goldengorin, and Jing Huang</i>	

Friday, September 15th, Morning

09:00–09:50	Plenary Talk (Room ML D28)	
	Uwe Schöning: Moderately Exponential Algorithms	
09:50–10:00	Short Break	
	IWPEC 9 (Room CAB G11) Chair: Catherine McCartin	WAOA 5 (Room CAB G61) Chair: Asaf Levin
10:00–10:25	On the Effective Enumerability of NP Problems <i>Jianer Chen, Iyad Kanj, Jie Meng, Ge Xia, and Fenghui Zhang</i>	A Randomized Algorithm for Online Unit Clustering <i>Timothy Chan and Hamid Zarrabi-Zadeh</i>
10:25–10:50	The Parameterized Complexity of Enumerating Frequent Itemsets <i>Matthew Hamilton, Rhonda Chaytor, and Todd Wareham</i>	On hierarchical diameter-clustering, and the supplier problems <i>Aparna Das and Claire Kenyon</i>
10:50–11:15	Coffee Break	
	IWPEC 10 (Room CAB G11) Chair: Michael Fellows	WAOA 6 (Room CAB G61) Chair: Marc van Kreveld
11:15–11:40	Random Separation: A New Methodology for Solving Fixed-Cardinality Optimization Problems <i>Leizhen Cai, Siu Man Chan, and Sio On Chan</i>	Covering Many of Few Points with Unit Disks <i>Mark de Berg, Sergio Cabello, and Sarel Har-Peled</i>
11:40–12:05	Towards a Taxonomy of Techniques for Designing Parameterized Algorithms <i>Christian Sloper and Jan Arne Telle</i>	On the minimum corridor connection problem and other generalized geometric problems <i>Hans Bodlaender, Corinne Feremans, Alexander Grigoriev, Eelko Penninkx, René Sitters, and Thomas Wolle</i>
12:05–12:30	Kernels: Annotated, Proper and Induced <i>Faisal Abu-Khzam and Henning Fernau</i>	Approximate Distance Queries in Disk Graphs <i>Martin Fürer and Shiva Kasiviswanathan</i>
12:30–14:00	Lunch Break	

Friday, September 15th, Afternoon

	IWPEC 11 (Room CAB G11) Chair: Hans Bodlaender	WAOA 7 (Room CAB G61) Chair: Gregory Gutin
14:00–14:25	Invited Talk: Michael Fellows: The Lost Continent of Polynomial Time Preprocessing and Kernelization	Approximating the unweighted k-set cover problem: greedy meets local search <i>Asaf Levin</i>
14:25–14:50		The k-allocation problem and its variants <i>Dorit Hochbaum and Asaf Levin</i>
14:50–15:15		Online Dynamic Programming Speedups <i>Amotz Bar-Noy, Mordecai Golin, and Yan Zhang</i>
15:15–15:45	Coffee Break	
		WAOA 8 (Room CAB G61) Chair: Thomas Erlebach
15:45–16:10		Coping with Interferences: From Maximum Coverage to Planning Cellular Networks <i>David Amzallag, Seffi Naor, and Danny Raz</i>
16:10–16:35		Competitive Online Multicommodity Routing <i>Tobias Harks, Stefan Heinz, and Marc Pfetsch</i>
16:35–17:00		Online Distributed Object Migration <i>David Scot Taylor</i>
17:00–17:10	Short Break	
17:10–17:35		Approximation Algorithms for Scheduling Problems with Exact Delays <i>Alexander Ageev and Alexander Kononov</i>
17:35–18:00		Reversal Distance for Strings with Duplicates: Linear Time Approximation using Hitting Set <i>Petr Kolman and Tomasz Waleń</i>