

LATIN 2010 - Conference Program

| | SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
|-------------|--------|---|---|--|---|---|
| 9:00-9:05 | | Opening Ceremony Mtro. Rafael Torres Vásquez, President of UABJO | Invited Talk | Invited Talk | Invited Talk | Invited Talk |
| 9:05-10:00 | | Invited Talk <i>Iterated Shared Memory Models</i> Sergio Rajsbaum | <i>Sparse Recovery Using Sparse Random Matrices</i> Piotr Indyk | <i>Vignettes on the work of Imre Simon</i> Ricardo Baeza-Yates, John Brzozowski, Volker Diekert, Jacques Sakarovitch | <i>Continuous and Discrete Methods in Computer Science</i> Cristopher Moore | <i>Some Observations on Holographic Algorithms</i> Leslie Valiant |
| 10:00-10:25 | | <i>Colorful Strips</i> G. Aloupis, J. Cardinal, S. Collette, S. Imahori, M. Korman, S. Langerman, O. Schwartz, S. Smorodinsky and P. Taslakian | <i>Optimal Succinctness for Range Minimum Queries</i> Johannes Fischer | <i>Limit theorems for random MAX-2-XORSAT</i> Rasendrasahina Vonjy and Ravelomanana Vlady | <i>Optimal Polygonal Representation of Planar Graphs</i> Emden Gansner, Yifan Hu, Michael Kaufmann and Stephen Kobourov | <i>The interval constrained 3-coloring problem</i> Jaroslav Byrka, Andreas Karrenbauer and Laura Sanita |
| 10:25-10:50 | | <i>The Mono- and Bichromatic Empty Rectangle and Square Problems in All Dimensions</i> Jonathan Backer and Mark Keil | <i>Compact Rich-Functional Binary Relation Representations</i> Jérémy Barbay, Francisco Claude and Gonzalo Navarro | <i>On Quadratic Threshold CSPs</i> Per Austrin, Siavosh Benabbas and Avner Magen | <i>Minimum-perimeter intersecting polygons</i> Adrian Dumitrescu and Minghui Jiang | <i>Counting hexagonal patches and independent sets in circle graphs</i> Paul Bonsma and Felix Breuer |
| 10:50-11:15 | | BREAK | BREAK | BREAK | BREAK | BREAK |
| 11:15-11:40 | | <i>Connectivity is Not a Limit for Kernelization: Planar Connected Dominating Set</i> Navid Imani and Qianping Gu | <i>Radix cross-sections for length morphisms</i> Sylvain Lombardy and Jacques Sakarovitch | <i>Finding Lower Bounds on the Complexity of Secret Sharing Schemes by Linear Programming</i> Leonor Vázquez and Carles Padró | <i>Finding the smallest gap between sums of square roots</i> Qi Cheng and Yu-Hsin Li | <i>Approximating Maximum Diameter-Bounded Subgraphs</i> Yuichi Asahiro, Eiji Miyano and Kazuaki Samizo |
| 11:40-12:05 | | <i>Randomized truthful algorithms for scheduling selfish tasks on parallel machines</i> Eric Angel, Evripidis Bampis and Nicolas Thibault | <i>Pairs of Complementary Unary Languages with "Balanced" Nondeterministic Automata</i> Viliam Geffert and Giovanni Pighizzini | <i>Finding the best CAFE is NP-hard</i> Elizabeth Maltais and Lucia Moura | <i>Matching Points with Things</i> G. Aloupis, J. Cardinal, S. Collette, E.D. Demaine, M.L. Demaine, M. Dulieu, R. Fabila-Monroy, V. Hart, F. Hurtado, S. Langerman, M. Saumell, C. Seara and P. Taslakian | <i>Largest Induced Acyclic Tournament in Random Digraphs: A 2-point concentration</i> C.R. Subramanian and Kunal Dutta |
| 12:05-12:30 | | <i>Almost Linear Time Computation of the Chromatic Polynomial of a Graph of Bounded Tree-Width</i> Martin Fürer | <i>Quotient Complexity of Ideal Languages</i> Janusz Brzozowski, Galina Jiraskova and Baiyu Li | <i>The Size and Depth of Layered Boolean Circuits</i> Anna Gal and Jing-Tang Jang | <i>Homotopic Rectilinear Routing with Few Links and Thick Edges</i> Bettina Speckmann and Kevin Verbeek | <i>The Complexity of Counting Eulerian Tours in 4-Regular Graphs</i> Qi Ge and Daniel Stefankovic |
| 12:30-12:55 | | <i>Average Parameterization and Partial Kernelization for Computing Medians</i> Nadja Betzler, Jiong Guo, Christian Komusiewicz and Rolf Niedermeier | <i>Complexity of Operations on Cofinite Languages</i> Frédérique Bassino, Laura Giambruno and Cyril Nicaud | <i>Lipschitz Unimodal and Isotonic Regression on Paths and Trees</i> Pankaj Agarwal, Jeff Phillips and Bardia Sadri | <i>Tilings robust to errors</i> Alexis Ballier, Emmanuel Jeandel and Bruno Durand | <i>Efficient Edge Domination on Hole-free Graphs in Polynomial Time</i> Andreas Brandstädt, Christian Hundt and Ragnar Nevries |

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|-------------|--|--|---|---|---|--|
| 12:55-13:20 | | <i>Sharp Separation and Applications to Exact and Parameterized Algorithms</i> Fedor Fomin, Fabrizio Grandoni, Daniel Lokshtanov and Saket Saurabh | <i>Fast Set Intersection and Two Patterns Matching</i> Hagai Cohen and Ely Porat | <i>Ambiguity and Deficiency in Costas Arrays and APN Permutations</i> Daniel Panario, Brett Stevens and Qiang Wang | <i>Visiting a Sequence of Points with a Bevel-Tip Needle</i> Atlas F. Cook IV, Carola Wenk, Ovidiu Daescu, Steven Bitner, Yam K. Cheung and Anastasia Kurdia | <i>Computational complexity of the Hamiltonian cycle problem in dense hypergraphs</i> Edyta Szymanska, Marek Karpinski and Andrzej Rucinski |
| 13:20-15:00 | | LUNCH | LUNCH | LUNCH | LUNCH | LUNCH |
| 15:00-15:25 | | <i>Finding the Minimum-Distance Schedule for a Boundary Searcher with a Flashlight</i> Tsunehiko Kameda, Ichiro Suzuki and John Z. Zhang | <i>Counting reducible, squareful, and relatively irreducible multivariate polynomials over finite fields</i> Joachim von zur Gathen, Alfredo Viola and Konstantin Ziegler | CONFERENCE EXCURSION Monte Albán | <i>Euclidean Prize-collecting Steiner Forest</i> MohammadHossein Bateni and MohammadTaghi Hajiaghayi | <i>Rank Selection in Multidimensional Data</i> Amalia Duch, Conrado Martinez and Rosa M. Jimenez |
| 15:25-15:50 | | <i>The Language Theory of Bounded Context-Switching</i> Salvatore La Torre, Madhusudan Parthasarathy and Gennaro Parlato | <i>A larger lower bound on the OBDD complexity of the most significant bit of multiplication</i> Beate Bollig | | <i>Prize-Collecting Steiner Networks via Iterative Rounding</i> MohammadTaghi Hajiaghayi and Arefeh Nasri | <i>Layered Working-Set Trees</i> Prosenjit Bose, Karim Douïeb, Vida Dujmović and John Howat |
| 15:50-16:15 | | <i>Local search performance guarantees for restricted related parallel machine scheduling</i> Diego Recalde, Cyriel Rutten, Petra Schuurman and Tjark Vredeveld | <i>Modelling the LLL algorithm via sandpiles</i> Brigitte Vallee and Manfred Madritsch | | <i>Kernelization Through Tidying---A Case Study Based on s-Plex Cluster Vertex Deletion</i> Rene van Bevern, Hannes Moser and Rolf Niedermeier | <i>Lightweight Data Indexing and Compression in External Memory</i> Paolo Ferragina, Travis Gagie and Giovanni Manzini |
| 16:15-16:35 | | BREAK | BREAK | | BREAK | END of CONFERENCE |
| 16:35-17:00 | | <i>Packet Routing on the Grid</i> Britta Peis, Martin Skutella and Andreas Wiese | <i>Communication-Efficient Construction of the Plane Localized Delaunay Graph</i> Prosenjit Bose, Paz Carmi, Michiel Smid and Daming Xu | | <i>Gradual sub-lattice reduction and a new complexity for factoring polynomials</i> Andrew Novocin and Mark van Hoeij | |
| 17:00-17:25 | | <i>Faithful Representations of Graphs by Islands in the Extended Grid</i> Michael Coury, Pavol Hell, Jan Kratochvil and Tomas Vyskocil | <i>Time Complexity of Distributed Topological Self-Stabilization: The Case of Graph Linearization</i> Dominik Gall, Riko Jacob, Andrea Richa, Christian Scheideler, Stefan Schmid and Hanjo Täubig | | <i>The Power of Fair Pricing Mechanisms</i> Christine Chung, Katrina Ligett, Kirk Pruhs and Aaron Roth | |
| 17:25-17:50 | | <i>The I/O Complexity of Sparse Matrix Dense Matrix Multiplication</i> Gero Greiner and Riko Jacob | <i>Randomised Broadcasting: Memory vs. Randomness</i> Petra Berenbrink, Robert Elsässer and Thomas Sauerwald | | <i>Quasi-Proportional Mechanisms: Prior-free Revenue Maximization</i> Vahab Mirrokni, S. Muthukrishnan and Uri Nadav | |
| 18:00-18:30 | RECEPTION | | Calenda / Walk to Santo Domingo | | | |
| 18:30-21:00 | Hotel Victoria (by swimming pool) | | | BANQUET - Hotel Victoria | | |