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# **COCOON 2012**

18th Annual International Computing and Combinatorics Conference

# **Conference program**

The conference will run for three days (August 20-22). Each day will start with a 1-hour invited talk followed by four sessions of 20-minute contributed talks. Coffee and lunch will be served outside the conference venue. For a detail schedule, scroll down in this page.

In addition to the scientific program, we will have two social events:

- Reception: The day before the conference (Aug 19) at 19:00.
- Conference dinner: On the second day of the conference (Aug 21) at 19:00.

Registration opens on August 20 at 8:00 at the conference venue.

## Scientific program

#### First Day (20 August 2011)

Invited talk	8:30	Geometric Network Optimization Joseph Mitchell
Session 1	9:30	A Linear Time Algorithm for Computing Minmax Regret 1-Median on a Tree with Positive Vertex Weights Binay Bhattacharya and Tsunehiko Kameda
	9:50	A simple D^2-sampling based PTAS for k-means Ragesh Jaiswal, Amit Kumar and Sandeep Sen

Break	10:10	Coffee Break
	10:30	<b>Speed Scaling for Maximum Lateness</b> Evripidis Bampis, Dimitrios Letsios, Ioannis Milis and Georgios Zois
	10:50	Induced subgraph isomorphism: Are some patterns substantially easier than others? Peter Floderus, Miroslaw Kowaluk, Andrzej Lingas and Eva-Marta Lundell
Session 2	11:10	<b>Contiguous min single-source-multi-sink cuts in weighted planar graphs</b> Ivona Bezakova and Zach Langley
	11:30	<b>Online Knapsack Problem with Removal Cost</b> Xin Han, Yasushi Kawase and Kazuhisa Makino
	11:50	An Improved Exact Algorithm for TSP in Degree-4 Graphs Mingyu Xiao and Hiroshi Nagamochi

Lunch

12:10 Lunch Period

Session 3	13:30	<b>Dynamic Programming for \$H\$-minor-free Graphs</b> Juanjo Rué, Ignasi Sau and Dimitrios Thilikos
	13:50	Restricted Max-Min Fair Allocations with Inclusion- free Intervals Monaldo Mastrolilli and Georgios Stamoulis
	14:10	An Improved Algorithm for Packing \$T\$-Paths in Inner Eulerian Networks Maxim Babenko, Kamil Salikhov and Stepan Artamonov.
	14:30	<b>Towards Optimal and Expressive Kernelization for d- Hitting Set</b> René Van Bevern
	14:50	Maximum number of minimal feedback vertex sets in chordal graphs and cographs Jean-François Couturier, Pinar Heggernes, Pim Van 'T Hof and Yngve Villanger

Break	15:10	Coffee Break
Session 4		A local algorithm for finding dense bipartite-like subgraphs Pan Peng
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	15:50	Algorithms for the Strong Chromatic Index of Halin Graphs, Distance-hereditary Graphs and Maximal Outerplanner Graphs Ton Kloks, Sheung-Hung Poon, Chin-Ting Ung and Yue-Li Wang
	16:10	On the Minimum Degree Hypergraph Problem with Subset Size two and the Red-Blue Hitting Set Problem with the Consecutive Ones Property Biing-Feng Wang and Chih-Hsuan Li
	16:30	Rainbow Colouring of Split and Threshold Graphs L. Sunil Chandran and Deepak Rajendraprasad
	16:50	Approximating the rainbow - better lower and upper bounds Alexandru Popa

# Second Day (21 August 2011)

Invited talk	8:30	Extremal problems for geometric graphsnew methods Janos Pach
Session 5	9:30	<b>Ramsey numbers for line graphs and perfect graphs</b> Remy Belmonte, Pinar Heggernes, Pim Van T Hof and Reza Saei.
	9:50	<b>Geodesic Order Types</b> Oswin Aichholzer, Matias Korman, Alexander Pilz and Birgit Vogtenhuber
Break	10:10	Coffee Break

Session 6	10:30	<b>Computing Partitions of Rectilinear Polygons with</b> <b>Minimum Stabbing Number</b> Stephane Durocher and Saeed Mehrabi
	10:50	Monotone paths in planar convex subdivisions Adrian Dumitrescu, Günter Rote and Csaba Toth
	11:10	<b>Complementary vertices and adjacency testing in polytopes</b> Benjamin A. Burton
	11:30	Optimally solving a transportation problem using Voronoi diagrams

		Darius Geiß, Rolf Klein and Rainer Penninger.
	11:50	Unexplored Steiner Ratios in Geometric Networks Lilach Chaitman-Yerushalmi and Paz Carmi

#### Lunch 12:10 Lunch Period

Session 7	13:30	<b>Geometric RAC Simultaneous Drawings of Graphs</b> Evmorfia Argyriou, Michael Bekos, Michael Kaufmann and Antonios Symvonis.
	13:50	Simultaneous Embeddings with Vertices Mapping to Pre-Specified Points Taylor Gordon
	14:10	<b>Multilevel Drawings of Clustered Graphs</b> Fabrizio Frati
	14:30	<b>Outerplanar graph drawings with few slopes</b> Kolja Knauer, Piotr Micek and Bartosz Walczak
	14:50	<b>Fary's Theorem for 1-Planar Graphs</b> Seok-Hee Hong, Peter Eades, Giuseppe Liotta and S Poon

Break

15:10 Coffee Break

Session 8	15:30	<b>Constant Time Enumeration of Bounded-Size</b> <b>Subtrees in Trees and Its Application</b> Kunihiro Wasa, Takeaki Uno and Hiroki Arimura
	15:50	<b>External Memory Soft Heap, and Hard Heap, a</b> <b>Meldable Priority Queue</b> Alka Bhushan and Sajith Gopalan
	16:10	Partially Specified Nearest Neighbor Search Marcel Schoengens and Tomas Hruz
	16:30	Multi-Pattern Matching with Bidirectional Indexes Simon Gog, Kalle Karhu, Juha Kärkkäinen, Veli Mäkinen and Niko Välimäki.
	16:50	Succinct Representations of Binary Trees for Range Minimum Queries Pooya Davoodi, Rajeev Raman and Srinivasa Rao Satti

#### Third Day (22 August 2011)

Invited talk	8:30	<b>Online matching</b> Kamal Jain
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Session 9	9:30	Lower Bounds against Weakly Uniform Circuits Ruiwen Chen and Valentine Kabanets
	9:50	<b>On TC0 Lower Bounds for the Permanent</b> Jeff Kinne

10:10 Coffee Break Break Τ Т ..... c . • . •

Session 10	10:30	Formula Complexity of Ternary Majorities Kenya Ueno
	10:50	On the kernelization complexity of problems on graphs without long odd cycles Fahad Panolan and Ashutosh Rai
	11:10	<b>The Complexity of Unary Subset Sum</b> Nutan Limaye, Meena Mahajan and Karteek Sreenivasaiah
	11:30	<b>On the Advice Complexity of Tournaments</b> Sebastian Ben Daniel
	11:50	<b>A remark on one-wayness versus pseudorandomness</b> Periklis Papakonstantinou and Guang Yang

12:10 Lunch

	Lunch	Period
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	13:30	Integral Mixed Unit Interval Graphs Van Bang Le and Dieter Rautenbach
	13:50	The cost of bounded curvature Hyo-Sil Kim and Otfried Cheong
Session 11	14:10	Online Coloring of Bipartite Graphs With and Without Advice Maria Paola Bianchi, Hans-Joachim Böckenhauer, Juraj Hromkovic and Lucia Keller
	14:30	Deep Coalescence Reconciliation with Unrooted Gene Trees: Linear Time Algorithms Pawel Gorecki and Oliver Eulenstein
	14:50	<b>On the \$2\$-Central Path Problem</b> Yongding Zhu and Jinhui Xu
Break	15:10	Coffee Break

	15:30	Making Profit in a Prediction Market Jen-Hou Chou, Chi-Jen Lu and Mu-En Wu
Session 12	15:50	<b>Computing Shapley Value in Supermodular</b> <b>Coalitional Games</b> David Liben-Nowell, Alexa Sharp, Tom Wexler and Kevin Woods
	16:10	<b>Equilibria of GSP for range auction</b> H.F. Ting and Xiangzhong Xiang
	16:30	<b>Stretch in Bottleneck Games</b> Costas Busch and Rajgopal Kannan

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#### Invited Speakers

- Kamal Jain, eBay
- Joseph Mitchell, Stony Brook
- <u>János Pach</u>, EPFL

### Important Dates

- Submission deadline: Feb 18, 2012
- Notification: Apr 18, 2012
- Final version: May 12, 2012
- Conference: Aug 20-22, 2012

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