

# CTW2015 Workshop Program

Tuesday – May 26, 2015

9:00-10:30	<b>Registration</b>
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10:30-11:00	<b>Welcome Ceremony</b>
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	<b>Session 1</b> Chair: Andrea PACIFICI	<b>Session 2</b> Chair: Abdel LISER	<b>Session 3</b> Chair: Ekrem DUMAN
11:00-11:30	<b>Kamiel Cornelissen and Bodo Manthey</b> <b>49:</b> Smoothed Analysis of the Minimum-Mean Cycle Canceling Algorithm and the Network Simplex Algorithm	<b>Chuan Xu, Alexei Gaivoronski and Abdel Lisser</b> <b>91:</b> Stochastic bilevel network design problems	<b>M. Selcuk Korkmaz, Serol Bulkan and Ekrem Duman</b> <b>76:</b> A New TDVRP (Time Dependent Vehicle Routing Problem) Model and Its Solution by Genetic Algorithm
11:30-12:00	<b>Saad Mneimneh and Saman Farhat</b> <b>74:</b> The Offline Carpool Problem	<b>Bouyahia Zied, Bellalouna Monia and Ghedira Khaled</b> <b>34:</b> Stability of probabilistic two-stage permutation flowshop problem	<b>Ramazan Algin, Ali Alkaya and Vural Aksakalli</b> <b>90:</b> Performance Comparison of Metaheuristics for the Obstacle Neutralization Problem
12:00-12:30	<b>Soumaya Sassi Mahfoudh, Walid Khaznaji and Monia Bellalouna</b> <b>95:</b> A Java Implementation of the Branch and Bound Algorithm : the Probabilistic Traveling Salesman Problem	<b>Vikas Vikram Singh, Oualid Jouini and Abdel Lisser</b> <b>37:</b> Bi-matrix Game with Random Payoffs	<b>Nader Bshouty and Ali Abdi</b> <b>18:</b> Lower Bounds for Cover-Free Families

12:30-14:00	<b>Lunch</b>
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	<b>Session 1</b> <b>Chair:</b> Bodo MANTHEY	<b>Session 2</b> <b>Chair:</b> Johann HURINK	<b>Session 3</b> <b>Chair:</b> Dmitrii LOZOVANU
14:00-14:30	<b>Marvin Künnemann and Bodo Manthey</b> <b>6:</b> On the Smoothed Approximation Ratio of the 2-Opt Heuristic for the TSP	<b>Didem Gözüpek and Mordechai Shalom</b> <b>70:</b> Edge Coloring with Minimum Reload/Changeover Costs	<b>Hamid Mokhtar</b> <b>44:</b> Recursive cube of rings
14:30-15:00	<b>Corinna Gottschalk and Britta Peis</b> <b>11:</b> Submodular Function Maximization on the Bounded Integer Lattice	<b>Marc Demange, Tinaz Ekim and Bernard Ries</b> <b>65:</b> On the Minimum and Maximum Selective Graph Coloring Problems	<b>Dmitrii Lozovanu and Stefan Pickl</b> <b>48:</b> Determining Nash Equilibria for Dynamic Positional Games on Networks
15:00-15:30	<b>Deborah King, Yang Li and Sanming Zhou</b> <b>43:</b> Linear and cyclic distance-three labellings of trees	<b>Méziane Aïder, Sylvain Gravier and Souad Slimani</b> <b>29:</b> Relaxed Locally Identifying Coloring of Graphs	<b>Yavuz Bogac Turkogullari, İ. Kuban Altınel, Z. Caner Taşkın, Zeynep Şuvak and Necati Aras</b> <b>42:</b> Minimum Cost Noncrossing Flow Problem on a Layered Network

15:30-16:00	<b>Coffee Break</b>
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	<b>Session 1</b> <b>Chair:</b> Gaia NICOSIA	<b>Session 2</b> <b>Chair:</b> Didem Gözüpek	<b>Session 3</b> <b>Chair:</b> Ali Haydar Ozer
16:00-16:30	<b>Gaia Nicosia, Andrea Pacifici and Ulrich Pferschy</b> <b>20:</b> Price of Fairness for Multiagent Subset Sum Problems	<b>Cemil Dibek, Tinaz Ekim, Didem Gözüpek and Mordechai Shalom</b> <b>41:</b> Equimatchable Graphs are $\$C_{2k+1}$ -free for $\$k \geq 4$	<b>Ali Haydar Ozer</b> <b>10:</b> Double Auction with Limited Cover Money Model
16:30-17:00	<b>Pablo Adasme, Rafael Andrade and Abdel Lisser</b> <b>21:</b> Probabilistic constrained dominating trees	<b>Luis Cunha, Luis Kowada and Celina Figueiredo</b> <b>46:</b> Sorting Separable Permutations by Restricted Multi-break Rearrangements	<b>Okan Ozener</b> <b>13:</b> Solving the Integrated Shipment Routing Problem of a LTL Carrier
17:00-17:30		<b>Yasemin Büyükçolak, Didem Gözüpek and Sibel Özkan</b> <b>47:</b> Extension of Dirac Theorem on Hamiltonicity	<b>Christopher Hojny and Marc E. Pfetsch</b> <b>22:</b> Symmetry Handling via Symmetry Breaking Polytopes

## Wednesday – May 27, 2015

	<b>Session 1</b> <b>Chair:</b> Gökşen BACAĞ TURAN	<b>Session 2</b> <b>Chair:</b> Vural AKSAKALLI	<b>Session 3</b> <b>Chair:</b> Giovanni RIGHINI
9:00- 9:30	<b>Mohamed Amine Boutiche</b> <b>19:</b> Forwarding Indices of Some Subdivision Graphs	<b>Ioannis Giotis, Lefteris Kirousis, Kostas Psaromiligkos and Dimitrios Thilikos</b> <b>30:</b> An alternative proof for the constructive Asymmetric Lovász Local Lemma	<b>Alberto Ceselli, Maria Luisa Damiani, Giovanni Righini and Diego Valorsi</b> <b>73:</b> Mathematical programming algorithms for spatial cloaking
9:30- 10:00	<b>Alexander Apke and Rainer Schrader</b> <b>23:</b> On the non-unit count of interval graphs	<b>Dimitris Chatzidimitriou, Archontia Giannopoulou, Clément Requilé, Dimitrios Thilikos and Dimitris Zoros.</b> <b>33:</b> A Fixed Parameter Algorithm for Plane Subgraph Completion	<b>Alessandro Hill and Edna Hoshino</b> <b>94:</b> A branch and price algorithm for the capacitated ring tree problem
10:00- 10:30	<b>Goksen Bacak Turan and Ferhan Nihan Altundag</b> <b>24:</b> Neighbor Rupture Degree of a Graph with Maximum Connectivity	<b>Dindar Öz, Ali Fuat Alkaya and Vural Aksakalli</b> <b>85:</b> Developing an Exact Method for the Obstacle Neutralization Problem	<b>Gustavo Dias, Leo Liberti and Nelson Maculan</b> <b>67:</b> Modelling Rank Constraints in Mathematical Programming

10:30- 11:00	<b>Coffee Break</b>
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	<b>Session 1</b> <b>Chair:</b> Petr GOLOVACH	<b>Session 2</b> <b>Chair:</b> Maurice QUEYRANNE	<b>Session 3</b> <b>Chair:</b> Walid KHAZNAJI
11:00- 11:30	<b>Tatjana Abramovskaya, Fedor Fomin, Petr Golovach and Michal Pilipeczuk</b> <b>56:</b> How to Hunt an Invisible Rabbit on a Graph	<b>Maurice Queyranne and Laurence Wolsey</b> <b>54:</b> Modeling Poset Convex Subsets	<b>Andrea Bettinelli, Sandro Bosio and Valentina Cacchiani</b> <b>27:</b> Heuristic Solutions to a Mailroom Inserting Machine Planning Problem

	<b>Session 1</b> <b>Chair:</b> Petr GOLOVACH	<b>Session 2</b> <b>Chair:</b> Maurice QUEYRANNE	<b>Session 3</b> <b>Chair:</b> Walid KHAZNAJI
11:30-12:00	<b>Konstantinos Papalamprou, Leonidas Pitsoulis and Eleni-Maria Vretta</b> <b>62:</b> On the decomposition of quaternary signed-graphic matroids	<b>Katarzyna Paluch</b> <b>93:</b> Balanced matchings, unbalanced ones and related problems	<b>Can Eren Sezener and Erhan Oztop</b> <b>28:</b> Heuristic algorithms for obtaining Polynomial Threshold Functions with low densities
12:00-12:30		<b>Daniel Freund and David P. Williamson</b> <b>7:</b> MC4, Copeland and restart probabilities	<b>Monia Bellalouna, Walid Khaznaji and Mohamed Abdellahi Amar</b> <b>96:</b> A Snail Heuristic for the Euclidean Traveling Salesman Problem

12:30-14:00	<b>Lunch</b>
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	<b>Session 1</b> <b>Chair:</b> Boting YANG	<b>Session 2</b> <b>Chair:</b> Annegret WAGLER	<b>Session 3</b> <b>Chair:</b> Edy Tri BASKORO
14:00-14:30	<b>Uéverton Souza, Letícia Rodrigues Bueno, Lucia Draque Penso, Dieter Rautenbach and Fabio Protti</b> <b>68:</b> Complexity of Geodetic Number Problem in Graphs with Maximum Degree 4	<b>Kahina Meslem, Sylvain Gravier and Souad Slimani</b> <b>8:</b> Distinguishing Number and Circulant Graphs	<b>Uğur Odabaşı and Sibel Özkan</b> <b>79:</b> The Hamilton-Waterloo Problem with C4 and Cm Factors
14:30-15:00	<b>Boting Yang</b> <b>71:</b> Positive Semidefinite Zero Forcing: Complexity and Lower Bounds	<b>Tiziana Calamoneri, Angelo Monti and Rossella Petreschi</b> <b>12:</b> Dynamically Operating on Threshold Graphs and Related Classes (Extended Abstract)	<b>Gülnaz Boruzanlı and John Baptist Gauci</b> <b>83:</b> Super Connectivity of Generalized Petersen Graphs
15:00-15:30	<b>Ervin Györi, Gyula Y. Katona and László F. Papp</b> <b>72:</b> Optimal pebbling of grids	<b>Gabriela Argiroffo, Silvia Bianchi and Annegret Wagler</b> <b>14:</b> Locating-dominating sets in some families of split graphs	<b>Edy Tri Baskoro</b> <b>89:</b> Graphs with certain locating-chromatic number

15:30-16:00	<b>Coffee Break</b>
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	<b>Session 1</b> <b>Chair:</b> Uéverton SOUZA	<b>Session 2</b> <b>Chair:</b> Jayme SZWARCFITER	<b>Session 3</b> <b>Chair:</b> Shahadat HOSSAIN
16:00- 16:30	<b>Marcio Duarte, Lucia Draque Penso, Dieter Rautenbach, Uéverton Souza and Jayme Szwarcfiter</b> <b>75:</b> The P <sub>3</sub> -Convexity in the Complementary Prism of a Graph	<b>Ana Luísa Furtado, Simone Dantas, Celina Figueiredo and Sylvain Gravier</b> <b>32:</b> Timber Game with Caterpillars	<b>Manoel Campelo, Alexandre Freire, Phablo Moura and Yoshiko Wakabayashi</b> <b>38:</b> Convex recoloring: inapproximability and a polyhedral study
16:30- 17:00	<b>Fernanda Couto, Luerbio Faria, Sylvain Gravier and Sulamita Klein</b> <b>77:</b> On the forbidden induced subgraph probe problem	<b>Lucila Bento, Davidson Boccardo, Raphael Machado, Vinícius G. Pereira de Sá and Jayme Szwarcfiter</b> <b>35:</b> The Graphs of Structured Programming	<b>Daya Gaur, Shahadat Hossain and Rishi Singh</b> <b>84:</b> Star Bi-Coloring of Bipartite Graphs using Column Generation
17:00- 17:30	<b>M A Shalu and S Devi Yamini</b> <b>78:</b> $c^2$ -join of graphs	<b>Felipe De Campos Mesquita, Letícia Rodrigues Bueno, Rodrigo De Alencar Hausen and Uéverton Dos Santos Souza</b> <b>40:</b> On Hamiltonian Cycles in Kneser Graphs	<b>Rosiane de Freitas, Simone Gama and Mario Salvatierra Junior</b> <b>99:</b> Choosability for limited and sequential list coloring problems
19:00- 23:00	<b>Gala Dinner</b>		

**Note:** The buses will leave for boat tour (gala dinner) from the venue at 18:30.

## Thursday – May 28, 2015

	<b>Session 1</b> <b>Chair:</b> Mustafa AGAOGLU	<b>Session 2</b> <b>Chair:</b> Suhadi W. SAPUTRO	<b>Session 3</b> <b>Chair:</b> David JUEDES
9:00-9:30	<b>Vinicius F. Dos Santos, Murilo Da Silva and Jayme Szwarcfiter</b> <b>80:</b> Polynomial time algorithm for the k-in-a-tree problem on chordal graphs	<b>Denis Cornaz, Fabio Furini and Enrico Malaguti</b> <b>15:</b> Solving Vertex Coloring Problems as Maximum Weighted Stable Set Problems	<b>Sahar Bsaybes, Alain Quilliot and Annegret Wagler</b> <b>60:</b> Fleet management of autonomous vehicles: VIPAFLEET
9:30-10:00	<b>Didem Gözüpek, Hadas Shachnai, Mordechai Shalom and Shmuel Zaks</b> <b>69:</b> Constructing Minimum Changeover Cost Arborescences in Bounded Treewidth Graphs	<b>Manoel Campelo, Phablo Moura and Marcio Santos</b> <b>25:</b> Facet-defining inequalities for the representatives k-fold coloring polytope	<b>Alain Quilliot</b> <b>16:</b> An Assignment Problem with Compactness Requirements: Models and Algorithms
10:00-10:30	<b>Mustafa Agaoglu, Ekrem Duman, and A. Hande Erol Binguler</b> <b>103:</b> Approaches for optimizing cross-sell and up-sell opportunities in campaigns	<b>Suhadi Wido Saputro</b> <b>36:</b> The locating chromatic number of $(n-3)$ -regular graphs	<b>David Juedes and Jeffrey Jones</b> <b>64:</b> A Generic Framework for Approximation Analysis for Algorithms for Star Bicoloring

10:30-11:00	<b>Coffee Break</b>
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	<b>Session 1</b> <b>Chair:</b> Alain QUILLIOT	<b>Session 2</b> <b>Chair:</b> Gabriel Barragan RAMIREZ	<b>Session 3</b> <b>Chair:</b> Marcin KRZYWKOWSKI
11:00-11:30	<b>Alain Quilliot</b> <b>17:</b> Coloring Interval Graphs while Minimizing End-Point Number	<b>Huda Chuangpishit and Jeannette Janssen</b> <b>92:</b> Recognition of certain square geometric graphs	<b>Andrei Braga, Cid De Souza and Orlando Lee</b> <b>61:</b> Computing Bounds for Eternal Domination
11:30-12:00	<b>Banu Kabakulak, Z. Caner Taşkın and Ali Emre Pusane</b> <b>45:</b> A Branch-and-Price Algorithm for Optimal Decoding in LDPC-Based Communications	<b>Gabriel Barragan Ramirez, Rinovia Simanjuntak, Saladin Uttunggadewa and Suhadi Saputro</b> <b>98:</b> Local metric dimension of subgraph-amalgamation of graphs	<b>Marcin Krzywkowski, Nader Jafari Rad and Sayyed Jafari</b> <b>100:</b> On the intersection graphs of subspaces of a vector space

12:00-12:30	<b>Closing Ceremony</b>
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12:30-14:00	<b>Lunch</b>
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