

# Workshop “Tractable special cases of hard combinatorial optimization problems”

December 15-16, 2014

Department of Optimization and Discrete Mathematics  
Graz University of Technology

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**Monday, December 15** Seminar room C208, Steyrergasse 30, 2nd floor

- 8:30 Registration
- 8:50-9:00 Opening
- 9:00-10:00 Gerhard J. Woeginger, Eindhoven University of Technology, The Netherlands  
*Tractable special cases through linear algebra*
- 10:00-10:30 Coffee Break
- 10:30-11:30 Frits Spieksma, KU Leuven, Belgium  
*Multi-index assignment problems: an overview*
- 11:35-12:05 Matteo Seminaroti, CWI Amsterdam, The Netherlands  
*The quadratic assignment problem is easy for Robinsonian matrices*
- 12:05-14:15 Lunch
- 14:15-14:45 Ante Ćustić, University of Zagreb, Croatia  
*The planar 3-dimensional assignment problem with Monge-like cost arrays*
- 14:50-15:20 Marie MacCaig, University of Birmingham, United Kingdom  
*The integer image problem in the max algebra*
- 15:25-15:55 Rostislav Staněk, University of Graz, Austria  
*A polynomial solvable case of the data arrangement problem on binary trees*
- 15:55-16:25 Coffee Break
- 16:25-17:15 Open problem session

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**Tuesday, December 16** Seminar room C208, Steyrergasse 30, 2nd floor

- 9:00-10:00 Vladimir Deineko, Warwick Business School, United Kingdom  
*Special structures in polynomially solvable cases: Is there much in common?*
- 10:00-10:30 Coffee Break
- 10:30-11:30 Martin Milanič, University of Primorska, Slovenia  
*Vector connectivity in graphs*
- 11:35-12:05 Nina Chiarelli, University of Primorska, Slovenia  
*Linear separation of variants of dominating sets in graphs*
- 12:05-14:15 Lunch
- 14:15-14:45 Joachim Schauer, University of Graz, Austria  
*The knapsack problem on weakly chordal conflict graphs*
- 14:50-15:45 Open problem session