

EURO Workshop 04.11.2009
Jahrestagung 2009 23.10.2009

31. ÖGOR - Jahrestag 2009

Freitag, 23. Oktober 2009, 11:00 - 17:00
Karl-Franzens-Universität Graz
Sem Raum im Inst für Statistik und OR
Bauteil E, im 3. Stock
Universitätsplatz 3
A-8010 Graz

[Bilder von der Veranstaltung](#)

Programm

11.00 -12.00 **Keynote speaker Prof. Michael Juenger**, Universität Köln

Titel: GEODUAL - Fun with Geometric Duality and Combinatorial Optimization

Abstract:

Almost 20 years ago, William R. Pulleyblank and I started assigning geometric interpretations to dual solutions of certain combinatorial optimization problems. Among other things, this resulted in colorful pictures that were not only aesthetically pleasing but also of educational value, because certain theorems can be appreciated visually without any formalism. For many years I have been sorry for not being able to spice up my lectures in the subject area with such pictures or even animations. The recently developed GEODUAL software closes this gap. Using the multi-platform Qt 4 open source library, it is a widely usable tool for creating and solving geometric instances of the Minimum Spanning Tree problem, the Perfect Matching problem, and the Traveling Salesman problem, along with visual proofs of optimality.

12.00 -13.00 Mittagspause

13.00 -14.00 **ÖGOR Preisverleihung** gesponsert von

 **GLOBAL VALUE INVEST**
AUTHENTIC VALUE INVESTING

 **Bank Austria**
UniCredit Group

14.00-14.30 Coffee break

14.30 - 15.10 **Vortrag von Prof. Feichtinger**, TU Wien

Titel: Conspicuous Consumption in Recession Periods*Abstract:*

Recently, modeling discontinuities in economic development has gained interest. In parallel with the stock market turmoil, demand for fancy hotel rooms has plummeted. Facing a recession period in which the demand for conspicuous consumption goods is reduced, sales managers are pushed for aggressive discounting. Lower prices, however, reduce brand image and thus long-term demand. If capital markets do not function, how should a firm react to a recession period of uncertain duration and intensity to avoid bankruptcy?

A two-stage optimal control approach is presented to deal with this sort of situations. Mild, intermediate and severe recessions are compared. In several cases, optimal price policies turn out to be history-dependent. Generally, such 'tipping behavior' seems to be typical for occurring nonlinearities.

15.10 - 15.50 **Vortrag von Prof. Marc Reimann**, Universität Graz

Titel: Ant Colony Optimization for the Single Line Train Scheduling Problem (joint work with Jose Eugenio Leal, PUC Rio)

Abstract:

In this paper we study a train scheduling problem on a single line that may be traversed in both directions by trains with different priorities travelling with different speeds. This is an important problem for line managers of rail infrastructure providers which have to allocate the limited track capacity to the different trains in an efficient way. We propose an Ant Colony Optimization metaheuristic to provide decision support for tackling this problem. Moreover, we study the impact of problem characteristics like density of traffic, priorities and speeds of trains on the difficulty of a problem instance and provide a set of benchmark instances by systematically combining different settings for these problem characteristics. Our results show the strong performance of ACO when compared to optimal solutions provided by CPLEX for small instances as well as to other heuristics on larger instances. Finally, our results suggest that the number of conflicts in an instance is not a good indicator of the difficulty of this instance as it depends on the underlying problem characteristics itself. Thus, we rather provide some insights into the relationship between the problem characteristics and the solution quality obtained with our algorithms.

16.00 **Generalversammlung**

Zum Tagesordnungspunkt „Änderungen der Statuten“ in der Generalversammlung sei erwähnt: Es ist beabsichtigt, dass die [Statuten der ÖGOR](#) speziell im §16 Abs 1 und 3 und §17 Abs 2 geändert werden. In der letztjährigen Generalversammlung ist der Wunsch geäußert worden, die Anzahl der Mitglieder im Vorstand der ÖGOR nicht mehr fix auf 8 Mitglieder festzulegen. Weiters war in den letzten Jahren das angewandte Prozedere zur Neuwahl des Vorstandes stets abweichend zu dem vorgeschriebenen Prozedere in den Statuten. Die neue Regelung der Wahl des Vorstandes soll der Praxis der letzten Vorstandswahlen in etwa entsprechen.

In unseren Statuten sollen etwaige Diskrepanzen zu dem aktuell gültigen [österreichischen Vereinsrecht](#) beseitigt werden.

Sie können sich vom 28.09.2009 bis zum 22.10.2009 für diese Veranstaltung anmelden

5. ÖGOR - IHS Workshop und ÖGOR-Arbeitskreis 24.09.2009

AWM 6 '08 / Austrian Workshop on Metaheuristics 622.10.2008

ÖGOR - IHS Workshop und ÖGOR-Arbeitskreis 18.09.2008

30th Anniversary Meeting and General Meeting 2008 (7th Nov) 10.09.2008 - 31.01.2009