

RAMOO Workshop 2017 - Program Overview

October 19:

12:00-13:00 – Registration and Light Lunch

13:00-15:30 – Scientific Program

15:30-16:00 – Coffee Break

16:00-17:30 – Scientific Program

17:30 – Group Photo

18:00 – Social Event and Dinner at Fraunhofer Institute ITWM

October 20:

09:00-10:30 – Scientific Program

10:30-11:00 – Coffee Break

11:00-12:00 – Scientific Program

Scientific Program (Building 42, Room 110)

October 19:

13:00 – 14:00 Opening and Keynote I

Chair: Stefan Ruzika

13:00 – 13:10: **Opening**

13:10 – 14:00: Xavier Gandibleux (Université de Nantes)

Designing and Experimenting with vOptSolver an Algorithm for Computing the Weight Set Decomposition

14:00 – 15:30 Session 1 – Algorithmic Advances and Complexity for Multi-Objective Problems

Chair: Michael Emmerich

14:00 – 14:30: Thomas Stidsen (Danmarks Tekniske Universitet)

Hybrid Optimization of Bi-Objective TSP

14:30 – 15:00: José Rui Figueira (Universidade de Lisboa)

Compressed data structures for bi-objective {0,1}-knapsack problems

15:00 – 15:30: Michael Emmerich (Universiteit Leiden)

Computational Geometry Challenges & Results in Multiobjective Optimization

15:30 – 16:00 Coffee Break

16:00 – 17:30 Session 2 – Multi-Objective Optimization under Uncertainty and Real-World Applications

Chair: Karl-Heinz Küfer

16:00 – 16:30: Anita Schöbel (Georg-August-Universität Göttingen)

Dominance for Multi-Objective Robust Optimization

16:30 – 17:00: Elisabeth Köbis (Martin-Luther-Universität Halle-Wittenberg)

Representation of Set Relations and Jahn-Graef-Younes Methods in Set Optimization

17:00 – 17:30: Karl-Heinz Küfer (Fraunhofer ITWM Kaiserslautern)

Industrial Applications of Multicriteria Decision Support

17:30 Group Photo

18:00 Social Event and Dinner at Fraunhofer Institute ITWM

October 20:

09:00 – 10:30 Session 3 – Special Topics in Multi-Objective Optimization

Chair: Matthias Ehrgott

09:00 – 09:30: Sophie Parragh (Johannes Kepler Universität Linz)

Bi-objective branch-and-bound and its application to optimization problems arising in logistics

09:30 – 10:00: Kerstin Dächert (Bergische Universität Wuppertal)

Obtaining rough initial representations for continuous tricriteria optimization problems

10:00 – 10:30: Matthias Ehrgott (Lancaster University)

Primal and Dual Algorithms for Optimisation over the Efficient Set

10:30 – 11:00 Coffee Break

11:00 – 12:00 Keynote II and Closing

Chair: Clemens Thielen

11:00 – 11:50: Daniel Vanderpooten (Université Paris Dauphine)

Multiobjective Optimization: Approximation with Performance Guarantee

11:50 – 12:00: **Closing**