Program – Monday, September 4, 2023

09:00 - 10:30: Welcome Session

- Welcome and introduction
- Short presentation of all participants (2 minutes each!)

Coffee Break

11:00 - 12:00: Seminar Overview

- Seminar scope
- Offers-and-needs market

Lunch

14:00 - 15:30: Modelling to Address Budget Constraints

- Juliane Mueller: Surrogate model guided optimization of expensive black-box multiobjective problems
- Andrea Raith: Problem decomposition in biobjective optimization

Coffee Break

16:00 - 16:30: Group Formation

16:30 - 18:00: Working Groups

Dinner

Program – Tuesday, September 5, 2023

09:00 - 09:30: Reporting on Large Working Groups Chair: Matthias Ehrgott

09:30 - 10:30: Small Working Groups

Coffee Break

11:00 – 12:00: Heuristic Optimization and Human Involvement Chair: Jürgen Branke

- Thomas Bäck: How to help end users when the budget is limited?
- Robin Purshouse: Towards decision analytic workflows for real-world problems: Simulation model calibration and multi-objective optimization on a shared evaluation budget
- Benjamin Doerr: Runtime analysis for the NSGA-II
- Kaisa Miettinen: Perspectives to dealing with computationally expensive multiobjective optimization problems

Lunch

14:00 - 15:30: Small Working Groups

Coffee Break

16:00 - 17:00: Small Working Groups

17:00 – 18:00: Reporting from Small Working Groups

- General discussion

Program – Wednesday, September 6, 2023

09:00 - 10:30: Small Working Groups

Coffee Break

11:00 – 12:00: Approximation and Exact Methods Chair: Karl-Heinz Küfer

- Kathrin Klamroth: Objective space methods: Pareto front approximations on a budget
- Michael Stiglmayr: Multi-objective branch-and-bound on a budget
- Frank Neumann: Fast Pareto optimization using sliding window selection
- Alma Rahat: Efficient approximation of expected hypervolume improvement using Gauss-Hermite quadrature

12:00-12:15: Group Photo Outside

Lunch

13:30 - 15:30: Hiking Trip

Coffee Break

16:00 - 18:00: Small Working Groups

Program – Thursday, September 7, 2023

09:00 – 10:00: Reporting from Small Working Groups Chair: Kaisa Miettinen

Coffee Break

10:30 - 12:00: Small Working Groups

Lunch

14:00 - 15:30: Small Working Groups

Coffee Break

16:00 – 16:30: Graphical and probabilistic approaches Chair: Boris Naujoks

- Ralph Steuer: A visualization-aided approach for solving tri-criterion portfolio problems

- Hao Wang and Kaifeng Yang: Probability of "improvement" in multi-objective Bayesian optimization

16:30 - 17:00: Announcements

17:00 - 18:00: Joint session with DS22362

20:00 - 23:00: Informal Get Together (BYOB, meet in the cafeteria)

Program – Friday, September 8, 2023

09:00-10:30: Final Reporting from Working Groups

Coffee Break

11:00 - 12:00: Closing Session

Lunch