OR as a resilient technology

How OR reacts and adapts to disruptive changes and future challenges

4th Conference of the EURO Practitioners´ Forum

Thursday 20 April 2023

12:30 Registration

13:30 Opening session

13:45 Keynote: K. Spreckelsen (OGE): *How to cope with the recent new challenges in gas transport*

14:45 Contributed talks
- J. Zittel (ZIB): *Energy system planning in times of change – a hierarchical and multi-objective approach for sustainable investment planning*
- M. Pozzi (Optit): *Multi-energy systems design and operations in response of climate change policies*
- M. Petkovic (ZIB): *Predictive analytics in the presence of structural changes: the natural gas example*

15:45 Coffee break

16:00 Keynote: S. Charousset-Brignol (EDF): *OR challenges related to the electricity system transition: a glance at some latest modelling and solving advances*

17:00 Contributed talks
- C. Antunes (University of Coimbra): *Mixed-integer linear programming models to optimize residential demand response to dynamic tariffs*
- B. Alidaee (University of Mississippi), J. Huang (Angelo State University): *Combining optimization and deep learning for dynamic pricing in renewable energy markets*

17:40 Parallel discussion groups

18:45 Close

19:30 Conference dinner

Friday 21 April 2023

8:30 Registration

9:00 Keynote: D. Roth (Jeppesen Systems): *Using airline planning software to schedule nurses when COVID hit Sweden*

10:00 Contributed talks
- C.Ph. Medard (SAP): *The intelligent machinery behind airline ground operations*
- S. Al-Natoor (Eastern Mediterranean University): *Temporary logistic hubs prepositioning for preparedness and response disaster operations*

10:40 Coffee break

10:55 Contributed talks
- R. Secca (ORTEC): *Leveraging Deep Learning models to estimate travel time durations over large evolving networks*
- I. Yüksel-Ergün (ZIB): *Improving quality of OR data sets: Detecting and removing data errors that involve superhuman complexity*

11:35 Keynote: A. Korhonen (Detech Decision Technologies): *Managing uncertainty and preparing for disruptive changes in financial services industry*

12:35 Lunch

13:45 Panel discussion: Quantum Computing

14:45 Keynote: V. Fux (Zalando SE): *Optimal Pricing under macroeconomic shock and unstable customer behavior in e-commerce*

15:45 Summary of parallel sessions and closing remarks

16:15 Close

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