

# OR<sub>23</sub> Hamburg

## International Conference on Operations Research 2023

Decision Support & Choice-Based  
Analytics for a Disruptive World

### *Technical Program*



# Plenary Speakers

## Nils Kemme

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**HPC Hamburg Port Consulting**  
*Out of the Box Thinking -  
Real Life OR Applications for Container  
Terminals*

Dr. Nils Kemme is Managing Director and port operations consultant at HPC Hamburg Port Consulting GmbH. He has more than fifteen years of experience and extensive knowledge in the field of planning, realizing and optimizing ports and intermodal facilities. In 2006, he started his career in the port industry with the optimization of the AGV-system at the Container Terminal Altenwerder in Hamburg, Germany. Thereafter, he joined HPC for the first time in January 2007, where he coordinated a major expansion program for a brownfield container terminal in Hamburg. In 2012, he rejoined HPC after four years as researcher and lecturer at the University of Hamburg, where he specialized in simulation-based planning and optimization of container terminals and earned his PhD degree in Operations Research. Since 2019, Nils Kemme is a partner at HPC and in 2021 he has been appointed as Managing Director. As such, he is a renowned speaker at international events of the port and transport industry and has published several books and articles in this area.

## Huseyin Topaloglu

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**Cornell University**  
*Incorporating Discrete Choice Models into  
Operations Management Models*

Huseyin Topaloglu is the Howard and Eleanor Morgan Professor in the School of Operations Research and Information Engineering at Cornell Tech. He got his B.Sc. in Industrial Engineering from Bogazici University of Turkey and his Ph.D. in Operations Research and Financial Engineering from Princeton University. He has been a faculty member at the School of Operations Research and Information Engineering since 2002. He is currently serving as the Program Director for the Master of Engineering Program in Operations Research and Information Engineering at Cornell Tech. Professor Topaloglu works on large-scale stochastic optimization problems that arise in areas such as revenue management, inventory control, transportation logistics, and supply chain management. He is the department editor for Revenue Management Department of Product and Operations Management Journal. He serves as an associate editor for the journals Management Science, Mathematical Programming C, Naval Research Logistics, Operations Research, Transportation Science, IIE Transactions, and Surveys in Operations Research and Management Science.

# *Semi-Plenary Speakers*

## **Sally Brailsford**

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**Southampton Business School**  
*Improving emergency care using a new approach to generic simulation modelling*

Professor Sally Brailsford is Professor of Management Science within Southampton Business School at the University of Southampton. Sally obtained a BSc in Mathematics from Kings College London, and then worked for several years as a nurse in the NHS before obtaining an MSc and then a PhD in Operational Research from Southampton. Her research is in the area of healthcare simulation modelling: to evaluate treatments and screening programmes, or to redesign and improve service delivery. Sally has worked for over 30 years in many different disease fields including diabetes, cancer, mental health and HIV/AIDS, in addition to emergency care and end-of-life care. From 2012-15 she was Vice-President 1 of EURO, the Association of European OR Societies. From 2010-19 she was Coordinator of the EURO Working Group on OR Applied to Health Services (ORAHS) and was a founding Editor-in-Chief of the UK OR Society's journal Health Systems. She is the only person ever to have won the OR Society's Goodeve Medal three times: in 2004 for modelling emergency healthcare services in Nottingham, in 2006 for modelling chlamydia infection, and in 2015 for modelling the supply and demand for dental care in Sri Lanka.

## **Ana Barbosa-Póvoa**

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**Instituto Superior Técnico**  
*Sustainable Supply Chain Management*

Ana Barbosa-Póvoa is a Full Professor in Operations and Logistics, at the Engineering and Management Department of Instituto Superior Técnico (IST), University of Lisbon. She holds a PhD from the Imperial College of Science Technology and Medicine and her research focus is on developing a comprehensive understanding of complex problems in supply chains and operations management, supported by novel and sound engineering systems models and techniques. Sustainability, resilience, uncertainty and risk in the design and planning of supply chains are among the main research-addressed domains. Ana has created and coordinates the research group in Operations Management and Logistics and Supply Chain Management (OpLog) at the Centre for Management Studies of IST. She has a large experience of in supervision and has been awarded with several research grants. Her research has led to several national and international awards having twice received the honor of being considered the best researcher in Industrial Management at the University of Lisbon. She is an editor of the Computers and Chemical Engineering Journal and a member of several editorial boards, namely the European Journal of Operational Research, the International Journal of Production Economics, TOP, and Operations Research Perspectives. She is one of the Vice Presidents of the EURO, European Association of Operational Research Society; a founder member of the Euro Working Group in Sustainable Supply Chains of the European Association of Operational Research – where she is currently part of the coordination team, and a member of the Euro Working Group on Retail, and the Euro Working Group on Location and Analysis. She serves in the events sub-committee of the EURO WISDOM Forum.

## Joanna Józefowska

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**Poznan University of Technology**  
*Models for just-in-time scheduling*

Full Professor at the Institute of Computing Science, Poznan University of Technology, Graduated in Mathematics at Adam Mickiewicz University and Management Engineering at PUT, Ph.D. and habilitation at the Faculty of Electrical Engineering, PUT. Post-doc at Memorial University, Newfoundland Canada, visiting professor at Brandenburg University of Technology and University of Siegen. In 2012-2020 Vice-rector for Research at PUT. Since 2020 the first Vice-President of the Association of European Operational Research Societies (EURO), since 2018 Coordinator of the EURO WG on Project Management and Scheduling (together with Erik Demeulemeester – KU Leuven). Major research areas: scheduling (project, machine, production), artificial intelligence, in particular knowledge representation systems. Author and co-author of 7 books and more than 100 papers in major professional journals and conference proceedings.

## Christoph Weber

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**University Duisburg-Essen**  
*OR-models for the energy transition – coping with uncertainty and heterogeneity*

Christoph Weber is professor for Energy Economics at the University Duisburg-Essen and is particularly interested in applied modelling for decision support under uncertainty. He has published on a broad range of topics related to energy markets and the decarbonization of the energy system.

## Sven Müller

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**RWTH Aachen**  
*Locational choices and decisions: choice-based facility location planning*

Sven Müller is professor for Data and Business Analytics at the RWTH Aachen University, Germany. He holds a *venia legendi* in Business Administration from Hamburg University, a PhD in Transport Economics from University of Technology Dresden (*summa cum laude*), and a master's degree in Economic Geography from RWTH Aachen University. Prior to his current position, Sven held various positions as associate or full professor at Otto-von-Guericke-University Magdeburg, European University Viadrina, and University of Applied Sciences Karlsruhe. His research interests are at the intersection of prescriptive and predictive analytics with applications to assortment optimization, revenue management, facility location, transportation, energy, and health care.

## Max Klimm

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**TU Berlin**  
*Information design for congested networks*

Max Klimm is an Assistant Professor for Discrete Optimization at the Technische Universität Berlin. He is interested in the analysis and optimization of multi-agent systems in traffic, telecommunications, and economics using tools from mathematical optimization, game theory, and mechanism design. Before joining TU Berlin in 2020, he was an Assistant Professor for Operations Research at the Humboldt-Universität zu Berlin. From 2014 to 2016, he was the head of the Junior Research Group for Optimization under Uncertainty at the Einstein-Center for Mathematics. He received his PhD in 2012 in Mathematics from Technische Universität Berlin.

## David Manlove

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**University of Glasgow**  
*Models and Algorithms for Kidney Exchange*

Ana Barbosa-Póvoa is a Full Professor in Operations and Logistics, at the Engineering and Management Department of Instituto Superior Técnico (IST), University of Lisbon. She holds a PhD from the Imperial College of Science Technology and Medicine and her research focus is on developing a comprehensive understanding of complex problems in supply chains and operations management, supported by novel and sound engineering systems models and techniques. Sustainability, resilience, uncertainty and risk in the design and planning of supply chains are among the main research-addressed domains. Ana has created and coordinates the research group in Operations Management and Logistics and Supply Chain Management (OpLog) at the Centre for Management Studies of IST. She has a large experience of in supervision and has been awarded with several research grants. Her research has led to several national and international awards having twice received the honor of being considered the best researcher in Industrial Management at the University of Lisbon. She is an editor of the Computers and Chemical Engineering Journal and a member of several editorial boards, namely the European Journal of Operational Research, the International Journal of Production Economics, TOP, and Operations Research Perspectives. She is one of the Vice Presidents of the EURO, European Association of Operational Research Society; a founder member of the Euro Working Group in Sustainable Supply Chains of the European Association of Operational Research - where she is currently part of the coordination team, and a member of the Euro Working Group on Retail, and the Euro Working Group on Location and Analysis. She serves in the events sub-committee of the EURO WISDOM Forum.

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