

EURO2025 LEEDS

34th European Conference on Operational Research

22 – 25 June 2025

HANDBOOK









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Frits Spieksma President of EURO

President of EURO

Yes! Finally, here we are in Leeds, participating in the much-anticipated EURO2025. Welcome to all of you!

We are looking forward to a historic event: EURO is truly becoming of age! Indeed, no participant will miss that we are celebrating the 50th anniversary of EURO. Thanks to the farsightedness of the founders of EURO in 1975, EURO has become a unifying force for all Operational Researchers in Europe and beyond. While the world in 1975 was quite different from today (duh), the need for a European Association of national OR societies has not diminished, on the contrary. In fact, more than ever, today's world is in need of insights, models, and a responsible use of techniques that provide stakeholders and decision makers with all necessary information; to phrase it compactly, how to go from data to decisions.

Let me single out two recent initiatives illustrating EURO's ambitions: (i) there is a new EURO Working Group, called Business Analytics & Artificial Intelligence Interfaces, providing a community that studies the deployment of AI models in business environments, and (ii) there is the EURO Online Seminar Series on OR and Machine Learning.

More generally, EURO2025 is a large conference catering to a diverse set of topics, people, organizations, and initiatives. As a consequence, the conference represents an opportunity. An opportunity to learn about upcoming topics, to collaborate with new colleagues, to get acquainted with interesting initiatives. Attend presentations, speak to people you have not spoken to before, ask questions you always wanted to, and simply enjoy the communal atmosphere.

And then, there are the thank yous. To the local organizers, chaired by Julia Bennell and Sajid Siraj. To the members of the program committee, chaired by Rita Laura D'Ecclesia. To EURO's vice-president Seán McGarraghy and past president Anita Schöbel. To the jury members of EURO's prizes. To the members of the EURO Working Groups, and the national societies. All of you have contributed to the organization of this conference: I sincerely thank you!

Finally, dear participant of EURO2025, I wish you a very pleasant and productive EURO2025 - let's make it happen!

Executive Director of The OR Society



Colette Fetcher Executive Director The OR Society, UK

Dear Colleagues,

On behalf of the Operational Research Society (ORS) in the UK, it is an honour to welcome you to the 34th European Conference on Operational Research, EURO 2025. This year is a particularly special occasion, as we celebrate the 50th anniversary of EURO.

The OR Society has a long history of working collaboratively with EURO. The Society was officially founded in 1948 to promote the study and application of OR techniques across various sectors, including industry, government, and academia. The founding members included leading figures from wartime OR groups who recognised the value of continuing their work in peacetime.

That work continues at pace today, and we are now a global organisation with more than 4,000 members including academics, practitioners, and students. We offer our members a wealth of resources, publications, training, and networking opportunities in operational research, and a chance to share ideas with others in their field of expertise.

We remain as committed as ever to our relationship with EURO and are delighted to be hosting them for their 'big birthday' at EURO 2025. We are very grateful to the University of Leeds for their hospitality and would also like to thank the members of the organising committee, the program committee, and everyone who has worked hard behind the scenes to make this conference such a success.

I hope you have a fascinating and stimulating conference.

Chairs of the Organising Committee

It is with immense pleasure and pride that we welcome you to Leeds for the 34th European Conference on Operational Research, hosted at the University of Leeds. As co-chairs of the Organising Committee, we are thrilled to see our vibrant campus come alive with the energy, intellect, and diversity of the global OR community.

This year's conference is particularly special as we celebrate the 50th anniversary of EURO which is a milestone that reflects decades of innovation, collaboration, and impact in the field of Operational Research. We are honoured to host this historic edition and to contribute to its legacy.

Leeds is a city that blends rich industrial heritage with a dynamic cultural scene. Whether you're exploring its historic arcades, enjoying its green spaces, or discovering its culinary delights, we hope you'll find time to experience the warmth and vibrancy that make Leeds so special.

EURO 2025 promises to be more than just a conference. It is a celebration of ideas, a platform for discovery, and a hub for connection. Alongside a rich academic programme featuring world-renowned plenary and keynote speakers, we have curated a series of social and networking events designed to foster meaningful interactions and lasting memories.

The welcome reception will greet you with Yorkshire charm, live music, and a festive atmosphere right in the heart of campus. The Meet & Mingle Evening offers a relaxed setting to connect with colleagues, old and new, over food, drinks, and music. The Gala Dinner at the iconic Royal Armouries promises an unforgettable evening of celebration. And finally, the Farewell Reception will give us an opportunity to reflect on days well spent while enjoying live music and dance acts.

The University of Leeds, with its beautiful campus and world-class facilities, is proud to be your host. We are deeply grateful to our dedicated team, volunteers, and partners who have worked tirelessly to bring this event to life.

We wish you an inspiring, enjoyable, and memorable EURO 2025.



Sajid Siraj Co-chair, EURO 2025 Organising Committee University of Leeds United Kingdom



Julia Bennell Co-chair, EURO 2025 Organising Committee University of Leeds United Kingdom

Chair of the Programme Committee



Rita Laura D'Ecclesia Programme Committee Chair Sapienza University of Rome, Italy

Welcome to EURO 2025 in Leeds—a landmark edition of our conference as we celebrate 50 years of EURO's contribution to the advancement of Operational Research.

This year's academic programme reflects the depth, diversity, and dynamism of our field. It has been a true privilege to work alongside an outstanding Programme Committee to curate a schedule that showcases rigorous scholarship, innovative methodologies, and research with real-world impact.

We are honoured to host some of the most distinguished voices in OR and its neighbouring disciplines. With hundreds of sessions across a wide spectrum of streams, EURO 2025 offers a unique opportunity to engage with cutting-edge work across themes such as optimisation, decision analysis, machine learning, logistics, healthcare, and public policy. Our plenary and keynote lectures will set the intellectual tone for the week, exploring topics at the forefront of data science, behavioural modelling, sustainability, and beyond.

This year, we introduced a set of tutorial sessions, offering in-depth, expert-led sessions on key areas of Operational Research. These tutorials are designed to provide valuable learning opportunities—whether you are seeking to strengthen foundational knowledge or explore emerging topics. We hope they will serve as a space for both professional development and intellectual inspiration.

The programme also includes a series of special sessions that speak to the evolving priorities of our community—from the role of OR in tackling global challenges to the integration of AI and advanced analytics in decision-making. These sessions aim to spark dialogue across disciplines, sectors, and generations.

As we celebrate EURO's 50th anniversary, we also take time to reflect on the legacy of those who shaped our discipline. I encourage you to join us for the memorial session in honour of Professor Theodor J. Stewart, as well as special presentations tracing EURO's remarkable history—and imagining its future.

This programme is the result of a remarkable collective effort. Authors, reviewers, stream organisers, and committee members have all contributed their expertise, time, and enthusiasm. I am deeply grateful for their dedication and collaboration.

I invite you to explore the programme with curiosity and openness. Attend a session outside your usual domain. Ask questions. Start conversations. Share ideas. This is how we grow—both as researchers and as a community.

Wishing you a stimulating and enriching EURO 2025.

2. Organisation

Programme Committee

Rita L D'Ecclesia (Chair) Sapienza University of Rome, Italy

Bernard Fortz EURO & University of Liège Belgium

Dries Goosens University of Ghent Belgium

Florian Jaehn Helmut Schmidt University Germany

Karsten Kieckhäfer University of Hagen Germany

Miloš Kopa **Charles University** Czechia





















Sarah Fores **EURO** Manager University of Leeds United Kingdom

Luis Miguel Pla University of Lleida Spain

Melanie Reuter-		
Oppermann		
University of Twente		
Netherlands		

Thomas Riis Stidsen Technical University of Denmark

Sibel Salman Koç University Türkiye

Sajid Siraj University of Leeds United Kingdom

Organising Committee

Juuso Liesiö Aalto University Finland

Seán McGarraghy EURO Vice President 1 University College Dublin, Ireland

> **Belén Melián** University of La Laguna Spain

Julia Bennell University of Leeds Leeds

Ender Özcan University of Nottingham United Kingdom

Carmela Piccolo University of Naples Federico II Italy





















Tony Wauters KU Leuven Belgium

Gerhard-Wilhelm Weber Poznań University of Technology Poland

Sanne Wøhlk Aarhus University Denmark

Marc Weibel Zurich University of Applied Sciences Switzerland

Organising Committee

Julia Bennell, Co-chair University of Leeds Leeds

> Sarah Davies The OR Society United Kingdom

Rita Laura D'Ecclesia Sapienza University of Rome, Italy

Sarah Fores EURO Manager University of Leeds United Kingdom

David Gardner University of Leeds United Kingdom

Seán McGarraghy EURO Vice President 1 University College Dublin Ireland

> **Caitlin Griffin** The OR Society United Kingdom

Richard Hodgett University of Leeds United Kingdom

































Sajid Siraj, Co-chair University of Leeds United Kingdom

Rachel Meadley University of Leeds United Kingdom

Stephen Lorrimer The OR Society United Kingdom

John Medhurst Larrainzar Consulting Solutions United Kingdom

Jane Parkin Carr House Consulting United Kingdom

Antonino Sgalambro University of Leeds United Kingdom

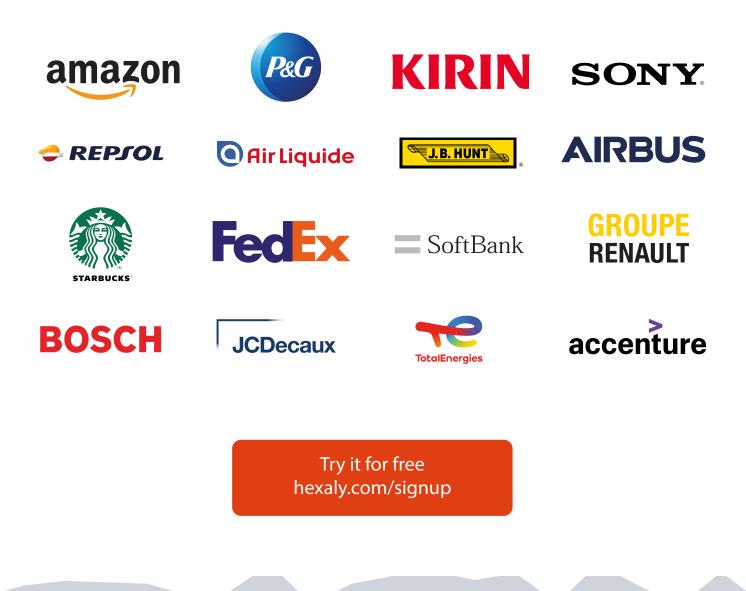
Natasha Shakhlevich University of Leeds United Kingdom

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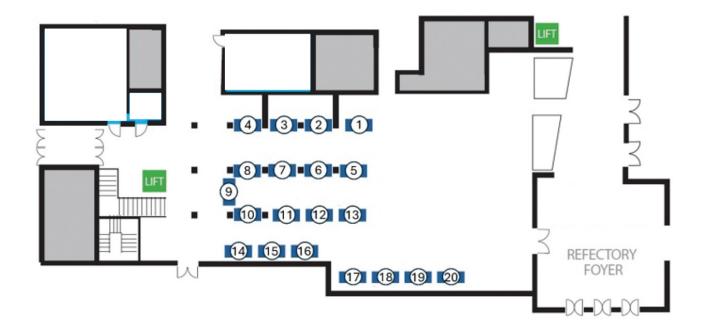


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Exhibiton Plan



- 1. Smith Institute
- 2. Taylor & Francis
- 3. Cardinal Optimizer
- 4. OR@Africa
- 5. Springer Nature
- 6. GAMS Software
- 7. Fico
- 8. EURO 2027
- 9. Nexus
- 10. D: Wave

- 11. Artleys France
- 12. Hexaly
- 13. Hexaly
- 14. IFORS
- 15. AMPL Optimization
- 16. Elsevier
- 17. Gurobi
- 18. Gurobi
- 19. Decision Lab
- 20. OR Society

3 Programme Overview

Sunday 22 Jun	Mon - Wed	Monday 23 June	Tuesday 24 June	Wednesday 25 June
	Morning A	MA 08:30 - 10:00 Parallel Sessions	TA 08:30 - 10:00 Parallel Sessions	WA 08:30 - 10:00 Parallel Sessions
	10:00 -	10:30 Morning Coffee	e, Refreshments & Ex	hibition
	Morning B	MB 10:30 - 12:00 Parallel Sessions	TB 10:30 - 12:00 Parallel Sessions	WB 10:30 - 12:00 Parallel Sessions
		12:	00 - 12:30 Coffee Bre	eak
	Lunch 12:00 - 14:30	MC 12:30 - 14:00 Parallel Sessions	TC 12:30 - 14:00 Parallel Sessions	WC 12:30 - 14:00 Parallel Sessions
		14:0	00 to 14:30 Coffee Br	eak
14:00 - 20:30 Registration Open	Afternoon D	MD 14:30 - 16:00 Parallel Sessions	TD 14:30 - 16:00 Parallel Sessions	WD 14:30 - 16:00 Parallel Sessions
		16.00 - 16:30	Coffee Break	
16:30 - 18:30 Opening Ceremony	Afternoon E	ME 16:30 - 17:30 Plenary 17:30 - 18:30 Elevator Pitches	TE 16:30 - 17:30 Plenary	WE 16:30 - 17:30 Plenary & Closing Session
18:30 - 20:30 Welcome Reception		18:00 - 20:00 Meet & Mingle	18:30 - 00-00 Gala Dinner	19.00 - 20.30 Farewell Reception



The full programme is available as a progressive web app that you can use on your computer or any mobile device by scanning the QR-Code. If you want to utilise the full offline capabilities of the app, click on the button "Add to home screen".

Plenary and Keynote Programme

	Monday 23 June	Tuesday 24 June	Wednesday 25 June
08:30 - 10:00	Francisco Aragón Artacho	Joanna Sułkowska	Leonidas Sakalauskas
10:00 - 10:30		Break	
10:30 - 12:00	Thomas Spengler	Kaisa Miettinen	Oliver Sinnen
12:00 - 12:30	Break		
12:30 - 14:00	Agostino Capponi	Francesca Maggioni	Eitan Bachmat
14:00 - 14:30		Break	
14:30 - 16:00	Álvaro Cartea	Sanja Petrovic	Murat Köksalan
16:30 - 17:30	David Simchi-Levi	Ulrike Leopold-Wildburger	Kalyan Talluri

Plenary Speakers



David Simchi-Levi Massachusetts Institute of Technology, US

Reinventing Operations Management's Research and Practice with Data Science

16:30 - 17:30 | Monday 23 June, Great Hall

Reinventing Operations Management's Research and Practice with Data Science

Biography:

David Simchi-Levi is a Professor of Engineering Systems at MIT and serves as the head of the MIT Data Science Lab. He is considered one of the premier thought leaders in supply chain management and business analytics.

Professor Simchi-Levi is the former Editor-in-Chief of Management Science (2018-2023), one of the two flagship journals of INFORMS. He served as the Editor-in-Chief for Operations Research (2006-2012), the other flagship journal of INFORMS and for Naval Research Logistics (2003-2005).

In 2023, he was elected a member of the National Academy of Engineering. In 2020, he was awarded the prestigious INFORMS Impact Prize for playing a leading role in developing and disseminating a new highly impactful paradigm for the identification and mitigation of risks in global supply chains.

He is an INFORMS Fellow and MSOM Distinguished Fellow and the recipient of the 2020 INFORMS Koopman Award given to an outstanding publication in military operations research; Ford Motor Company 2015 Engineering Excellence Award; 2014 INFORMS Daniel H. Wagner Prize for Excellence in Operations Research Practice; 2014 INFORMS Revenue Management and Pricing Section Practice Award; and 2009 INFORMS Revenue Management and Pricing Section Prize.

He was the founder of LogicTools which provided software solutions and professional services for supply chain optimization. LogicTools became part of IBM in 2009. In 2012 he co-founded OPS Rules, an operations analytics consulting company. The company became part of Accenture in 2016. In 2014, he co-founded Opalytics, a cloud analytics platform company focusing on operations and supply chain decisions. The company became part of the Accenture Applied Intelligence in 2018.

Plenary Speakers



Ulrike Leopold-Wildburger University of Graz, Austria

Optimization and Behavior Full professor, emeritus

16:30 - 17:30 | Tuesday 24 June, Great Hall

Optimization and Behavior

Biography:

Member of the European Academy of Sciences/Academia Europea/London

Editor in Chief: Central European Journal of Operations Research.

Department of Operations and Information Systems, University of Graz/ Austria

Studies in mathematics, philosophy and logic, University of Graz/Austria and University of Oslo,

Habilitation for Operations Research and Mathematical Economics under Wolfgang EICHHORN/KIT, Reinhard SELTEN, Nobel Laureate in Economics 1994, and John HARSANYI, Nobel Laureate in Economics 1994.

1988/89 Full Professor at the department of Operations Research, University of Zurich, Switzerland,

2001-2003 dean of studies, faculty of Economics and Social Sciences, Univ. of Graz/Austria

Visiting Professor at: University of Vienna; Grande École, Nancy; University of St. Gallen; Concordia College, Moorhead, USA; University of Kopenhagen Harvard University (visiting fellow), permanent visiting professor University of Kalmar, Sweden; Europ. University Institute, Fiesole, Italy.

Several Grants by Austrian Science Foundation and research Fellowships on Data Analysis.

Several National and International Awards,

* Since 2011 Member of the European Academy of Sciences/Academia Europea,

* 2021 European Distinguished Service Award by EURO,

* Since 2000 EURO Working Group: E- Cube: European Experimental Economics,

Since 2000 Editor in Chief: Central European Journal of Operations Research,

Research Council Member, European University Institute, Florence,

Approx.: 220 scientific presentations worldwide, invited lectures, semi plenary and plenary lectures, and keynote talks;

More than 200 scientific publications, mainly in scientific journals, 27 monographs.

Plenary Speakers



Kalyan Talluri Imperial College London, UK

OR problems in Automated Pricing

16:30 - 17:30 | Wednesday 25 June, Great Hall

OR problems in Automated Pricing

Biography:

Kalyan Talluri is a Professor of Operations Management and Analytics at the Imperial College Business School London. He obtained his Phd in Operations Research from MIT and a MSc in Industrial Engineering from Purdue and has an undergraduate degree in Mechanical Engineering from Osmania University Hyderabad. His research area is Transportation, Pricing and Revenue Management and Health Analytics. Till 2014 he was an ICREA Professor in the Economics and Business department at the Universitat Pompeu Fabra in Barcelona, Spain and held visiting positions at INSEAD, Dartmouth and NYU. Prior to that he worked at USAir., an airline company in the US. He is a co-author of the first academic book on Revenue Management: "The Theory and Practice of Revenue Management". Besides his academic publications he works closely with many Revenue Management and Pricing departments at airlines, railways, hotels, e-commerce and software providers. He also has ongoing projects with the Convergence Science Centre at Imperial College and the Institute of Cancer Research, UK on applying Operations Research and Management principles in clinical processes.

For his contributions to Revenue Management and Pricing he has been (co)-awarded the first INFORMS RM & Pricing Section Award, the INFORMS Lanchester Prize and the INFORMS Impact Prize.



Eitan Bachmat Ben-Gurion University, Israel

Project Management and Optics

Biography:

Eitan Bachmat received his PhD in Mathematics from M.I.T. and is currently a professor of Computer Science at Ben-Gurion University. Eitan works on problems in the areas of Storage Systems, Performance Analysis, Systems Engineering, Operations Research, Autism and Quantitative and Personalized Healthcare and Medicine, using techniques from Physics, Mathematics and Computer Science. He is an expert on Airplane Boarding and Express Line Queues and how they relate to Relativity theory and Number theory respectively. In 2017 he was part of a team that won the only medical data analysis competition ever organized by the New England Journal of Medicine, the SPRINT challenge. Eitan also works closely with industry and non-profit organizations on diverse applications and holds 41 patents.



Agostino Capponi University of Columbia, US

Machine Learning in Finance: Supply Chain Asset Pricing and Data-Driven Dynamic Risk Management

Biography:

Agostino Capponi is a Professor at Columbia University's Department of Industrial Engineering and Operations Research, a member of the Data Science Institute, and founding director of the Columbia Center for Digital Finance and Technology. His research spans financial technology, machine learning in finance, market microstructure, systemic risk, and climate finance. He has received funding from NSF, DARPA, DOE, IBM, Ripple, and others, and was awarded the NSF CAREER Award and JP Morgan AI Research Faculty Award. His work has been featured in Bloomberg, Financial Times, and Vox. Agostino is a fellow of the Crypto and Blockchain Economics Research Forum and serves on editorial boards of top journals including Management Science and Operations Research. He co-edited Machine Learning and Data Sciences for Financial Markets (Cambridge, 2023), an Amazon bestseller in finance.



Álvaro Cartea University of Oxford, UK

Unintended Consequences of Artificial Intelligence in Financial Markets

Biography:

Álvaro Cartea is a Professor of Mathematical Finance at the Mathematical Institute, University of Oxford, and serves as Director of the Oxford-Man Institute of Quantitative Finance. His research lies at the intersection of finance, mathematics, and data science, with a strong emphasis on practical and policy-relevant applications. He has made significant contributions to the fields of high-frequency and algorithmic trading, where his work has helped shape understanding of market microstructure and trading strategies. More recently, his research has turned to the emerging challenges posed by artificial intelligence in financial markets, including algorithmic collusion and the unintended consequences of Al-driven decision-making. Through his academic leadership and interdisciplinary approach, he continues to influence both theoretical developments and real-world practices in quantitative finance.



Murat Köksalan University of Michigan, US

Multiple Criteria Decision Making and its Applications

Biography:

Murat Köksalan earned his BSc and MSc from METU, Ankara, and a PhD from SUNY Buffalo. He has served as a professor at METU, including as department chair (2013–2017), and held visiting roles at SUNY Buffalo, Purdue, Georgetown, and Aalto University. Since 2018, he has been at the Ross School of Business, University of Michigan. His research focuses on multiple criteria decision making (MCDM), multi-objective optimization, and heuristic search. He has received the TÜBİTAK Young Researcher Award, the MCDM Gold Medal, the Parlar Foundation Science Award, and several INFORMS Case Competition awards. He is a founding president of the INFORMS MCDM Section and a past president of the International Society on MCDM. Outside academia, he enjoys skiing, tennis, and exploring the history of decision sciences.



Francesca Maggioni University of Bergamo, Italy

Bounding large-scale optimization problems under uncertainty

Biography:

Francesca Maggioni is Professor of Operations Research at the Department of Management, Information and Production Engineering (DIGIP), University of Bergamo, Italy. Her research focuses on optimization under uncertainty, including stochastic, robust, and distributionally robust multistage optimization. She develops theoretical bounds and approximations and applies them to logistics, transportation, energy, and machine learning. She has published over 60 peer-reviewed articles in leading operations research journals. In 2021, she received a grant from the Italian Ministry of Education as principal investigator for the project ULTRA OPTYMAL, focused on urban logistics and sustainable transportation. She currently chairs the EURO Working Group on Stochastic Optimization and the AIRO Thematic Section on Stochastic Programming, and has served as secretary and treasurer of the Stochastic Programming Society. She is Associate Editor for several journals, including Transportation Science, CMS, EJCO, TOP, ITOR, Networks, and RAIRO-Operations Research.



Kaisa Miettinen University of Jyväskylä, Finland

Decision Support with Interactive Multiobjective Optimization Methods and Software

Biography:

Kaisa Miettinen is Vice-Rector and Professor of Industrial Optimization at the University of Jyväskylä. Her research focuses on nonlinear multiobjective optimization, especially interactive methods, spanning theory, applications, and software. She leads the Research Group on Multiobjective Optimization and the thematic area Decision Analytics utilizing Causal Models and Multiobjective Optimization (www.jyu.fi/demo). She has authored around 230 scientific publications, edited 20 volumes, and written the monograph Nonlinear Multiobjective Optimization. A member of the Finnish Academy of Science and Letters, she is a former president of both the International Society on MCDM and the Finnish Operations Research Society. She serves on editorial boards of ten journals and the Steering Committee of Evolutionary Multiobjective Optimization. She has held positions at IIASA (Austria), KTH (Sweden), and Helsinki School of Economics. She received the Georg Cantor Award from the MCDM Society and was named OR Person of the Year 2023 by the Finnish OR Society.



Sanja Petrovic University of Nottingham, UK

Operational Research challenges in healthcare

Biography:

Sanja Petrovic is Professor of Operational Research at Nottingham University Business School, UK. Her research focuses on developing models, heuristics, and algorithms for real-world optimisation and scheduling problems, including radiotherapy planning, patient scheduling, timetabling, and vehicle routing. She works across optimisation, metaheuristics, case-based reasoning, multicriteria decision making, data mining, and fuzzy logic. She has led and collaborated on numerous EPSRC- and industry-funded projects. Sanja served as Vice-President (2013–2018) and President (2025–2026) of the UK OR Society, chaired COPIOR (2018–2021), and has coordinated the EURO Working Group on Automated Timetabling since 2006. She is Associate Editor of the Journal of Scheduling, on editorial boards including IMA Journal of Management Mathematics and YUJOR, and chaired the OR53 conference. She has published around 60 journal papers, 30 book chapters, and supervised 19 PhD students. In 2023, she was named among Stanford University's Top 2% Scientists.



Leonidas Sakalauskas Vytautas Magnus University, Lithuania

OR behind modeling and simulation of social-behavioral phenomena

Biography:

Leonidas Sakalauskas is a Professor and Doctor Habilitatus at Vytautas Magnus University, Lithuania. He is the author of over 300 scientific publications spanning operations research, queueing theory, stochastic and metaheuristic optimization, and digital philosophy. His pioneering work includes the development of a novel paradigm for modelling and simulating social-behavioural phenomena in creative societies. He is the founder of the Lithuanian Operational Research Society (LitORS) and played a key role in launching three EURO Working Groups (EWGs). A dedicated community builder, he has been a principal organizer of around 30 international and national conferences, one of which earned a place in the Guinness World Records. His contributions have significantly shaped the landscape of operations research in the Baltic region and beyond, combining rigorous mathematical modelling with innovative interdisciplinary approaches.



Oliver Sinnen University of Auckland, New Zealand

Scheduling, key to the efficiency of parallel computing

Biography:

Oliver Sinnen is Professor at the University of Auckland (UoA), New Zealand, in the Department of Electrical, Computer, and Software Engineering, leading the Parallel and Reconfigurable Computing Lab. He graduated in Electrical and Computer Engineering at RWTH Aachen University, Germany and received his PhD from Instituto Superior Técnico, University of Lisbon, Portugal. Oliver's research is situated in the area of parallel computing and programming, with focus on scheduling algorithms for parallel systems. He also works in reconfigurable computing and acceleration with FPGAs and led a team at the UoA contributing to the development of the Square Kilometre Array (SKA) radio telescope. Oliver is the sole author of the highly cited research monograph "Task Scheduling for Parallel Systems", Wiley. He is editor of two major parallel computing journals and has served on 100+ programme committees of parallel computing conferences.



Thomas Spengler Technische Universität Braunschweig, Germany

Green Steel Production in Europe – Perspectives and Challenges

Biography:

Prof. Dr. Thomas S. Spengler began his academic career with a doctorate at the Institute of Industrial Production and the French-German Institute for Environmental Research at KIT in 1994, completing his habilitation there in 1998. Since then, he has been Chair of Production and Logistics and, since 2008, Director of the Institute of Automotive Management and Industrial Production (AIP) at TU Braunschweig. Since 2014, he is also an adjunct professor at the University of Rhode Island. He served as Department Editor for Business Research (2016–2020) and for Schmalenbach Journal of Business Research since 2021. Since 1999, he has served on editorial boards of journals including EJOR, OR Spectrum, and POM. He has been a member of the German Council of Science and Humanities since 2020, and held board roles at NFF, SE²A, and, since 2023, the Battery LabFactory Braunschweig (BLB).



Joanna Sułkowska Warsaw University, Poland

Topology in Biological Matter: New Ways to Use Entanglement in Structural Biology

Biography:

Dr hab. Joanna Sułkowska, prof. UW leads the Interdisciplinary Laboratory for Modeling Biological Systems at the Centre of New Technologies, University of Warsaw. She earned her PhD in biophysics in 2007 and habilitation in 2016, becoming professor in 2018. She completed postdoctoral research at UC San Diego and held visiting positions at MIT and Caltech. She has authored over 90 publications in top journals such as Nature Structure & MB, JACS, PNAS, PRL, and NAR, integrating theory with experimental data. Her major achievement is the discovery and characterization of non-trivial protein topologies—knots, slipknots, lassos, and theta curves—and their biological functions. She has also advanced research on GPCR antagonists (CB1 and CB2). Her work has earned awards from EMBO, the National Science Centre, the Foundation for Polish Science, and the Ministry of Science. She won the 2018 NSC Life Sciences Award and the UNESCO-L'Oréal "Rising Talent" prize.



Francisco Aragón Artacho University of Alicante, Spain

Split and conquer!

Biography:

Francisco J. Aragón Artacho is Professor of Statistics and Operations Research at the University of Alicante, Spain. After obtaining a PhD in Mathematics at the University of Murcia in 2007, he worked as an analyst for a private business company in Madrid for nearly a year. Subsequently, he held several postdoctoral positions at the University of Alicante, University of Newcastle (Australia) and the Luxembourg Centre for Systems Biomedicine. His main research topics are in the area of convex and set-valued analysis, with special emphasis in the development of optimization algorithms. He has published more than 40 research papers, the textbook Nonlinear Optimization (Springer, 2019, coauthored by M.A Goberna, M.A. López, and M.M.L. Rodríguez) and the recent popularization book *Mathematics* in Politics and Governance (Springer, 2024, coauthored by M.A Goberna). He serves as an associate editor of the Journal of Optimization Theory and Applications (since 2024), TOP-Transactions in Operations Research (since 2023), Optimization Letters (since 2022), and Fixed Point Theory (since 2021).

EURO proudly celebrates excellence in Operational Research through a series of prestigious awards and prize sessions, recognising outstanding contributions across research, practice, service, and societal impact. Join us in recognising and applauding the individuals and teams shaping the future of OR.



EURO Gold Medal (EGM 2025)

The EURO Gold Medal (EGM) is the highest distinction within OR in Europe. The award is conferred on a prominent person or team or institution, for an outstanding contribution to the OR science. The award will be officially bestowed at the opening session.

Members of the 2025 Jury:

- Ivana Ljubic (France) chair
- Justo Puerto Albandoz (Spain)
- Giovanni Felici (Italy)
- Martine Labbé (Belgium)
- Ton de Kok (Netherlands)

EURO Distinguished Service Award (EDSA 2025)

The EURO Distinguished Service Award honours extraordinary efforts in recognition of distinguished service to EURO and to the profession of OR. The award will be officially presented at the opening session.

- Daniele Vigo (Italy) chair
- Sally Brailsford (UK)
- Albert Wagelmans (Netherlands)
- Marielle Christiansen (Norway)
- Rudolf Vetschera (Austria)

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EURO Doctoral Dissertation Award (EDDA 2025)

The purpose of the EURO Doctoral Dissertation Award is to distinguish an outstanding doctoral dissertation in Operational Research, defended in the countries having an OR society that is a member of EURO. Four finalists will present their work at special sessions during the conference.

2025 Finalists:

- Hannah Bakker: On the Interplay Between Data and Decisions in Discrete Location Problems
- Jesús Camacho: Semilocal Lipschitz Stability in Linear Optimization
- Pierluigi Mansueto: Pareto Front Reconstruction of Multi-Objective Optimization Problems
- Yasmine Beck: Mixed-Integer Optimization Techniques for Robust Bilevel Problems with Here-and-Now Followers

The award will be presented to the winner at the closing session.

- Marjan van den Akker (Netherlands) chair
- Violeta Cvetkoska (North Macedonia)
- Eduardo Pardo (Spain)
- Oliver Stein (Germany)
- Bahar Yetis Kara (Turkey)



EURO Excellence in Practice Award (EEPA 2025)

The EURO Excellence in Practice award is for the best submission and presentation describing an application of Operational Research in practice. This year there are three finalists who will present their work during a special session during the conference.

2025 Finalists:

- Katrin Heßler, Timo Hintsch, Lukas Wienkamp: BinPACKER
- Toni Wickert, Alberto Kummer, Fabricio Nunes Da Costa, Henrique Lima Baiao, Leila Yasmin Abdala, Mateus De Paula Nascimento, Jackson De Sousa Marques Magalhaes, Ricardo Mauricio Solar Vivanco, Cid Carvalho de Souza: Logistics Performance Excellence: Optimizing the Dedicated Fleet of Mercado Livre
- Serena Fugaro, Antonino Sgalambro, Filippo Santarelli: A Spatial Decision Support System for designing the network of Household Waste Recycling Centres in South Yorkshire

The award will be presented to the winner(s) at the closing session.

- Frédéric Gardi (France) chair
- Evelien van der Hurk (Denmark)
- Tobias Achterberg (Germany) [GUROBI rep]
- Suzanne Harrison (UK)
- Carolin Trouet (Germany)



EURO Prize for OR for the Common Good (EPOCG 2025)

This is a EURO Prize to honour outstanding accomplishments of OR for solving social-oriented problems. This year there are two finalists will who will present their work during special sessions during the conference.

2025 Finalists:

- Maryam Roudneshin, Amanda Sosa: Optimising the Biorefinery Supply Chain: A GIS-Based Multi-Objective Approach for Sustainable Bioenergy Production
- Sophie Parragh, Elisabeth Gaar, Xenia Haslinger: Driving Sustainability: How Operations Research Supports Zero-Emission Bus Fleet Decisions

The award will be presented to the winner(s) at the closing session.

- Claudia D'Ambrosio (France) chair
- Alec Morton (UK)
- Marie Schmidt (Germany)
- Maria-Antónia Carravilla (Portugal)
- Henrik Andersson (Norway)

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EURO Award for the Best EJOR Paper (EABEP 2025)

EURO has three annual awards available for papers published by EJOR: best survey paper; best application paper; and best theory/methodology paper. Winners for each category have been selected by a jury and these awards will be presented at the closing session.

- Bernardetta Addis (France) chair
- Valentin Bertsch (Germany)
- Tibor Illés (Hungary)
- Ruud Teunter (Netherlands) [EJOR rep]
- Philine Schiewe (Finland)

1. OR Journals

There will be an opportunity to meet the editors and hear some exciting talks from papers in EURO and OR Society journals. Look out for the OR Journals stream with talks held on Monday and Tuesday in Rupert Beckett Lecture Theatre.

Monday 23 June	Rupert Becket Lecture Theatre, Michael Sadler Building
14.30 - 16.00	MD-04: EJOR: policy, facts and highlights Chair(s): Roman Slowinski
Tuesday 24 June	Rupert Becket Lecture Theatre, Michael Sadler Building
8.30 - 10.00	TA-04: Journal of Simulation. Computer Modelling and Simulation Chair(s): Navonil Mustafee, Claudia Szabo, Charles Macal, Enlu Zhou
10.30 - 12.00	TB-04: EURO Journal on Computational Optimization (EJCO) Chair(s) : Immanuel Bomze, Miguel Anjos, Sarah Fores
12.30 - 14.00	TC-04: ORS Meet the Editors Session Chair: Thomas Archibald, Konstantinos Nikolopoulos

2. WISDOM

The EURO WISDOM (Women In Society Doing Operational Research and Management Science) Forum promotes the participation of all genders in OR. The Forum will host several sessions at EURO. We invite you to join us in **Esther Simpson Building, Room 1.01** on Tuesday. More specific details are provided below:

Young Women 4OR

All sessions on **Tuesday** All sessions in **Esther Simpson Building, Room 1.01**

TA-03 8:30-10:00 Chair: Dilek Gunnec

- Optimization models for Group Counterfactual Analysis: an overview by Jasone Ramírez-Ayerbe
- Leveraging Support Vector Machines to construct Margin Optimal Decision Trees by Marta Monaci, Laura Palagi

TB-03 10:30-12:00 Chair: Annunziata Esposito Amideo

- My Research Path in Operations Research for a Sustainable Future by Ozlem Mahmutogullari
- Carbon Capture, Utilization, and Storage (CCUS) under Capacity Constraints: Help or Hindrance in Supply Chain Decarbonization? by Xiaoyan Xu
- A Primer on Bilevel Optimization Under Uncertainty Yasmine Beck

TC-03 12:30-14:00 Chair: Heletje van Staden

- A passion for Transportation Optimisation by Yue Su
- Assessing Sustainability in a Two-Echelon Location-Routing Problem: A Comprehensive Framework for Client and Company Emissions by Valentina Bonomi
- Semi-flexible demand-responsive public bus systems for imbalanced demand scenarios by Dilay Aktas Dejaegere, Pieter Vansteenwegen, Kenneth Sörensen

If you are interested to hear more about WISDOM, or networking with the authors, do join us for these sessions!

You can find more information about the EURO WISDOM Forum the EURO website (www.euro-online.org/web/pages/1654/wisdom) or reach out to wisdom@euro-online.org.

3. Making an Impact

Making an Impact, or MAI in short, is a stream aimed at helping people become more effective in applying OR to make real changes in the world, whether you are working within a company or commercial consultancy, or within academia. Most of the sessions consist of a single topic tackling a particular issue - whether that is a panel session on practical aspects of OR, a tutorial on developing techniques, a discussion session sharing experiences and learning from each other, or an opportunity to build useful and important connections with others.

All MAI sessions are scheduled in Maurice Keyworth Building. There are 17 sessions in total with 12 sessions in Executive Seminar rooms 1.33, and 5 sessions in Executive Seminar rooms 1.32. The details are provided in the table below:

	Maurice Keyworth Room 1.33	Maurice Keyworth Room 1.32
Monday 23 June		
8.30 - 10.00	MA-26 OR In Action: lightning talks for a whirlwind tour of our world	
10.30 - 12.00	MB-26 Speed networking	
12.30 - 14.00	MC-26 Generative AI for Intelligent Decision Support Systems	MC-25 Exploring System Dynamics: Getting started and applications in consulting
14.30 - 16.00	MD-26 Practical skills: knowledge sharing tutorials	MD-25 Accreditation/ certification for OR professionals: the what, why and how
Tuesday 24 June		
8.30 - 10.00	TA-26 OR Making an Impact: 3 case studies and a discussion	
10.30 - 12.00	TB-26 Explainability	TB-25 What are we doing when we're not doing sums
12.30 - 14.00	TC-26 At the heart of things: OR in the UK Government and National Health Service England	
14.30 - 16.00	TD-26 Digital Twins	TD-25 How systems thinking can make a practical impact
Wednesday 25 June		
8.30 - 10.00	WA-26 Successful collaborations with academic partners	
10.30 - 12.00	WB-26 Lente Festina (aka not too fast, not too slow): how to match the pace with IT, Business and Users in OR-based projects	WB-25 Design thinking for impact in OR
12.30 - 14.00	WC-26 Getting to do the things we do: persuading leaders to invest in OR	
14.30 - 16.00	WD-26 Quantum Optimization: The Killer Use Case for Quantum Computing	

4. Elevator-Pitches on the 50th Anniversary Articles

In celebration of the 50th Anniversary of EURO, this is a series of short talks on a selection of recently accepted papers in EURO journals covering 50 years of history of developments and future directions in a range of areas of OR. Each short talk will be given by one or more authors of these papers.

5. Celebrating 50 Years of EURO

To mark EURO's 50th anniversary, we have included a special series of retrospective sessions celebrating the people, milestones, and ideas that have shaped the development of Operational Research across Europe and beyond. These sessions bring together distinguished contributors to share personal reflections, historical insights, and memorable moments. With stories spanning five decades, these talks offer a rich tapestry of EURO's legacy and its enduring influence on the field. All these talks are scheduled on Wednesday in **Esther Simpson Building, Room 1.01.**

WA-03 8:30-10:00 Chair(s): Richard Eglese, Frits Spieksma

- Professor Jean-Pierre Brans about the early days of EURO Jean-Pierre Brans
- Some special moments of memory Ulrike Leopold-Wildburger
- Four Presidents and a Secretary: Five UK contributors to EURO Graham Rand
- EURO 1995 in Jerusalem Israel Roman Slowinski, Zilla Sinuany-Stern

WB-03 10:30-12:00 Chair(s): Marc Sevaux, Anita Schöbel

- The Journey from Subjecting Operations Research Problems, to Connecting Decision-Makers, to Projecting Problems onto Systems, to Protecting the Common Good Cathal MacSwiney Brugha
- Five decades of EURO connections and incentives for Central (Eastern) European OR issues: a personal perspective Lidija Zadnik Stirn
- COMPUTING in OR: An Early History and Personal Experience John Ranyard

WC-03 12:30-14:00 Chair(s): Frits Spieksma, Anita Schöbel

- Reflections on Wonderful OR Experiences at EURO Conferences Over 20 Years Anna Nagurney
- Why the 1970's Was an Important Era in Operational Research, with Personal Reflections *Jyrki Wallenius*
- Lessons I learned from EURO Emilio CARRIZOSA
- Fifty years of Data Envelopment Analysis Ali Emrouznejad, Anna Mergoni, Kristof De Witte

WD-03 12:30-14:00 Chair(s): Roberto Rossi, Gerhard-Wilhelm Weber

- A Brief History of (Inventory) Analytics Roberto Rossi
- Oxford 1957: The first international conference on OR. Topics, influence, gender *Richard Vahrenkamp*
- Coordination of Drones at Scale: Decentralized Energy-aware Swarm Intelligence for Spatio-temporal Sensing Chuhao Qin
- Discrete-choice Multi-agent Optimization: Decentralized Hard Constraint Satisfaction for Smart Cities Srijoni Majumdar



6. Memorial session for Professor Theodor J Stewart

Join us in Leeds for a special memorial session for Professor Theodor J Stewart's contributions to Operational Research. This session will feature discussions on scenario-focused decision analysis by Simon French, a review of Theo's work by Murat Koksalan and Jyrki Wallenius, and an exploration of balance in multicriteria problems by Alec Morton and Lars Østerdal. Detailed location and time will be mentioned in the final programme. We look forward to your participation.

7. Tutorials

This time, as a new initiative for EURO-k conferences, we introduce a dedicated stream of tutorial sessions, designed to offer in-depth, accessible insights into key areas of Operational Research. These sessions are led by renowned experts and span a wide range of topics—from the societal impact of OR and the complexities of healthcare systems, to cutting-edge methods in machine learning, optimization, and behavioural OR. Whether you're looking to deepen your technical expertise or explore the broader applications of OR, these tutorials provide a unique opportunity to learn, engage, and be inspired.

	All tutorials are in Esther Simpson 3.02 (except EUROYoung Forum on Tuesday 14:30, which is in Esther Simpson 1.01)	
Monday 23 June		
8.30 - 10.00	Community OR and Social Value: Empowering Marginalised Communities through Socially Trading Organisations by Foteini Stavropoulou (chair: Sanne Wøhlk)	
10.30 - 12.00	Why healthcare is the most rewarding area in which to do OR by Sally Brailsford (chair: Sanne Wøhlk)	
12.30 - 14.00 Societal Complexity by Dorien DeTombe (chair: Gerhard-Wilhelm Weber)		
14.30 - 16.00	Use of Julia/JuMP for Multi-objective optimization by Xavier Gandibleux (chair: Thomas Stidsen)	
Tuesday 24 June		
8.30 - 10.00	Integrating Demand Management into Complex Decision Models by Arne Strauss (chair: Sanne Wøhlk)	
10.30 - 12.00	- 12.00 Explaining Machine Learning Models: A Multi-Objective Optimization Perspective by Dolores Romero Morales (chairs: Sajid Siraj, Sanne Wøhlk)	
12.30 - 14.00How can the partitioning of elective surgeries benefit the inpatient operation theater? by Erik Demeulemeester (chair: Florian Jaehn)		
14.30 - 16.00	Communicating Operations Research: Strategies for Engaging Stakeholders, Academics, and the Public by EUROYoung Forum (chairs: Andrea Mancuso Marta Baldomero)	
Wednesday 25 June		
8.30 - 10.00	Optimization Models for Unit Commitment in Electric Energy Systems by Miguel Anjos (chair: Sanne Wøhlk)	
10.30 - 12.00	Does Ancient History Offer a Great**n Grandfather of OR? by David Lane (chair: Rita D'Ecclesia)	
12.30 - 14.00	Methods for Mixed Integer Non Linear Optimization by Claudia D'Ambrosio (chair: Sanne Wøhlk)	
14.30 - 16.00	What is Behavioural OR? by L. Alberto Franco, Raimo P. Hämäläinen, Martin Kunc (chair: Andrea Taylor)	

Guidelines for speakers and session chairs

Speakers can find the location of their session via the mobile app and in the complete official programme, available on the website in PDF format. Each regular session lasts 90 minutes and is divided into 4 timeslots to accommodate 4 talks. To allow time for questions and enable jumping between sessions, all speakers are kindly requested to prepare their presentations for a maximum of 20 minutes, even if their session includes less than 4 speakers. The official PowerPoint presentation template for the slideshow is available for download on the website - its use is optional. Speakers should arrive at their lecture room at least 15 minutes before the session starts. Once there, they should contact the session chair to set up the presentation.

Session chairs must ensure that their sessions start and end on time, and that presentations are set up correctly and run in the order shown in the official programme. If a speaker does not show up, please keep to the original schedule to facilitate session jumping. If the session chair is absent, the first speaker should replace him/her. The chair should let speakers know when they are nearing the end of their presentation time (5 minutes and 1 minute). Session chairs are kindly asked to record the number of attendees to each session on the attendance sheets provided in the room.

Equipment in all session rooms at EURO 2025 includes a projector with HDMI connection. Adaptors are not provided so please ensure to bring your own.

Lunches and Breaks

Lunch will be served on the precinct, the Refectory and Riley Smith Theatre. Buildings.

Special diets can be collected from the Refectory where you will need to show your badge to collect a suitable meal.

Water is available from water fountains in all buildings in use during the conference.

Coffee/tea and snacks are available in most buildings in use during the conference. Please refer to the map for further information.

4. Social programme

Welcome Reception - Sunday 22 June

19:00-20:30 | University Precinct (outside the Refectory)

Join us as we officially welcome delegates to Leeds for EURO 2025 and mark a very special occasion – the 50th anniversary of EURO! Set in the vibrant heart of campus, this open-air Welcome Reception promises a warm Yorkshire welcome with a celebratory atmosphere.

Enjoy the uplifting sounds of a traditional brass band and be delighted by roaming entertainers as you mingle with fellow delegates. A wine reception and a selection of light bites will be served to help you settle in and start your EURO 2025 experience in style.

Meet & Mingle (Networking Evening) - Monday 23 June

18:00-20:00 | The Refectory & Riley Smith Theatre

All delegates are warmly invited to an inclusive networking evening across The Riley Smith Theatre and The Refectory, both conveniently located within the same building, so you can move between the two as you wish.

The Riley Smith Theatre provides a relaxed space for networking and unwinding, while The Refectory hosts live music for those who want to enjoy great sounds alongside good company.

Food and drinks will be available in both areas, ensuring you can grab a refreshment wherever you are. Whether you're catching up with colleagues, meeting new faces, or simply soaking in the atmosphere, this evening promises a welcoming and vibrant setting at the heart of EURO 2025.

Come along, choose your vibe, connect and unwind. Everyone is welcome!

Gala Dinner - Tuesday 24 June

18:30-00:00 | The Royal Armouries

The EURO 2025 Gala Dinner will take place at the Royal Armouries Leeds. Please note, the dinner is only available to those who have pre-booked during online registration. Delegates are requested to make their own way to the venue. The full address is Armouries Drive, Leeds, LS10 1LT.

Farewell Reception - Wednesday 25 June

19:00-20:30 | University Precinct (outside the Refectory)

As EURO 2025 draws to a close, join us for a relaxed Farewell Reception to celebrate a fantastic week of ideas, collaboration, and community.

With light refreshments and live entertainment, this is a chance to reflect on your conference highlights, say goodbye to new friends and colleagues, and end your EURO 2025 experience on a high note. We hope you can join us as we wrap up an unforgettable 50th anniversary celebration.

5. Campus Map

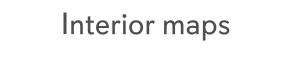


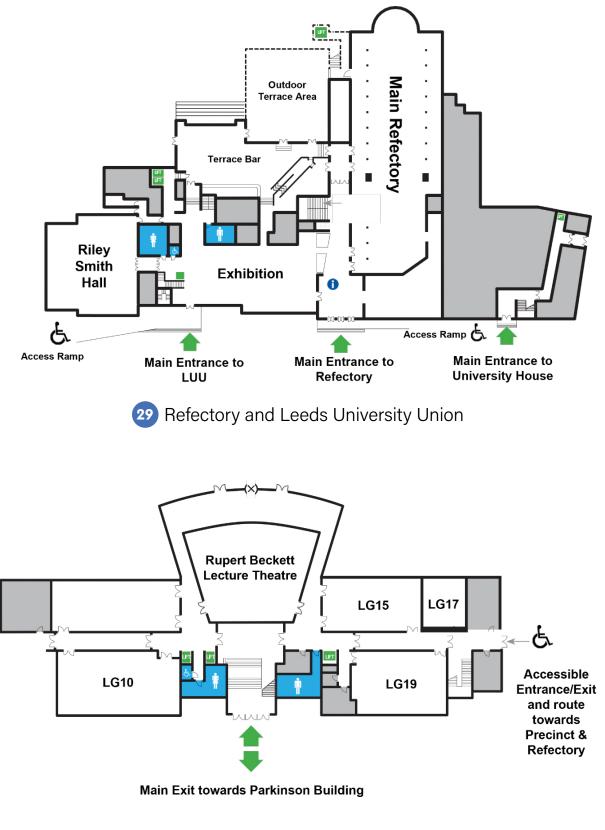
Parallel Sessions

Maurice Keyworth 19

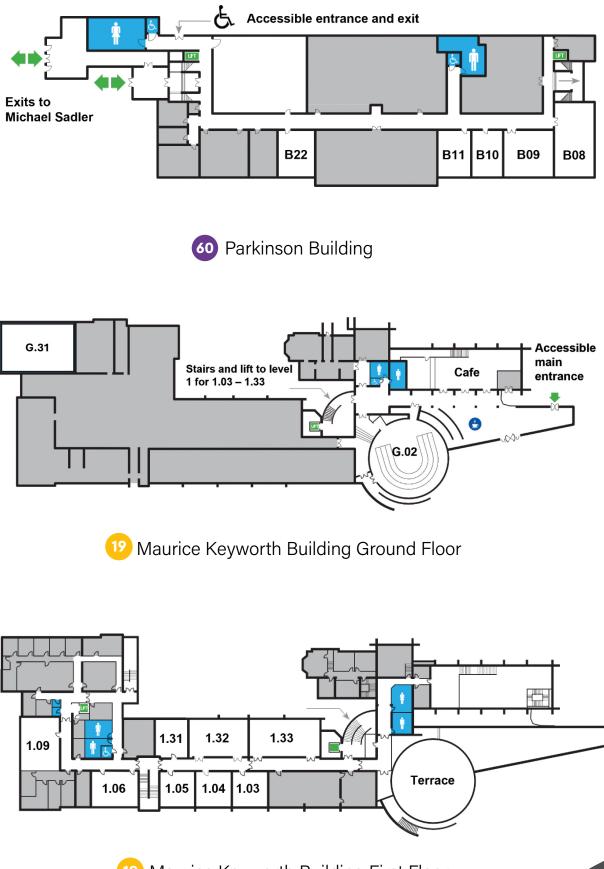
Parkinson (all session rooms in basement) 60 Michael Sadler 78 Esther Simpson 12 Clarendon 20 Newlyn 85 Liberty 10

Western Building









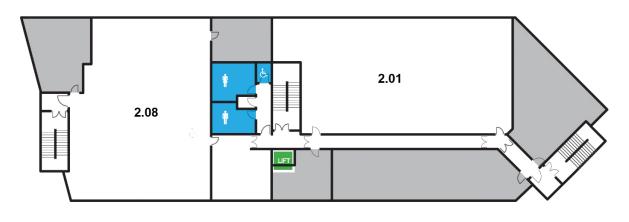
19 Maurice Keyworth Building First Floor



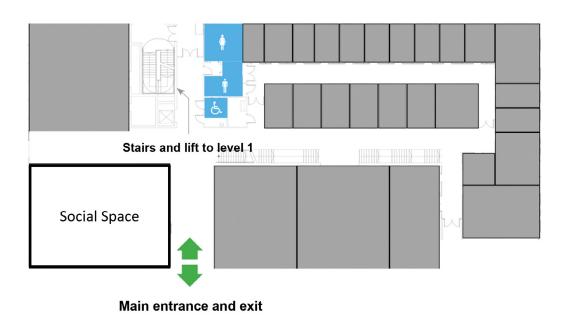
20 Clarendon Building Ground Floor



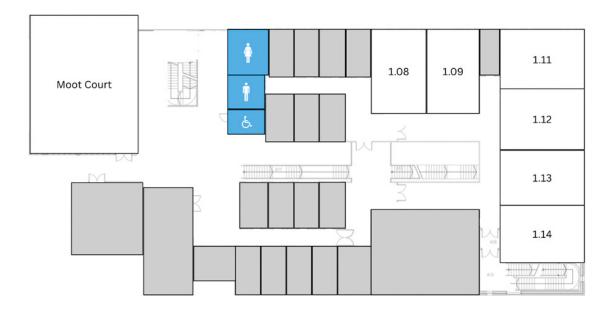
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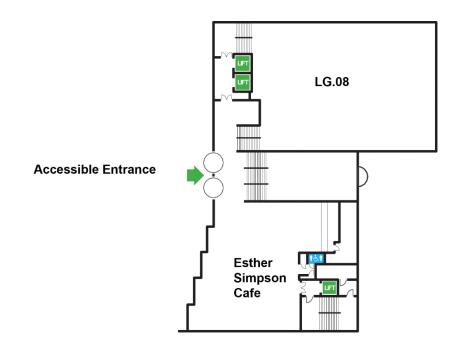
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16 Liberty Building Ground Floor

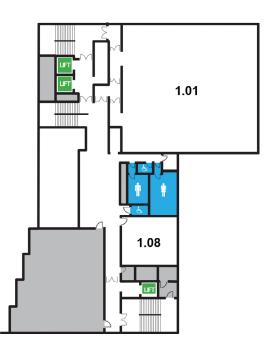


16 Liberty Building Ground Floor



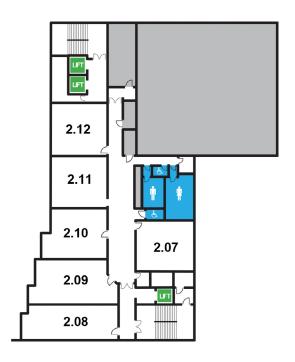


Esther Simpson Building Ground Floor

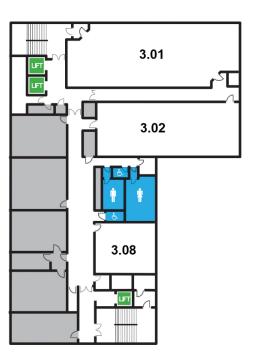




Esther Simpson Building First Floor



12 Esther Simpson Building Second Floor





12 Esther Simpson Building Third Floor











85 Newlyn Lower Ground

6. Other useful information

Internet Access

All delegates will be provided with internet access during the conference. Please visit the help desk in the Refectory Foyer for information on how to get access.

Important Emergency Numbers

• University of Leeds Security: 0113 343 5494

• Emergency Services (police, fire brigade, ambulance etc): Emergency: 999

Non-emergency: 101



