



EURO²⁴
COPENHAGEN

33rd European conference
on **Operational
Research**

30th June – 3rd July 2024



Conference
HANDBOOK



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COPENHAGEN

33rd European conference
on **Operational
Research**
30th June – 3rd July 2024

Contact Information

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WELCOME

Anita Schöbel
President of EURO



1.1 President of EURO

A warm welcome to EURO XXXIII in Copenhagen! As president of EURO, the Association of European Operational Research Societies, it makes me happy to see so many researchers, not only from Europe, but from all over the world, being interested in Operations Research. We all appreciate Operations Research (OR) as a science with challenging research questions on the one hand, and with applications making an impact to the real-world, on the other hand.

We all know that ...

... OR is important for our society and may improve our lives, in particular now. Our models and methods help to improve health care, save energy, change to sustainable mobility, just to name a few important goals. EURO values such works with the EURO Prize for OR for the Common Good (EPOCG) which will also be awarded in this conference and the stream "Making an Impact" provides tools and discussion around these topics.

... OR is a modern science open to and using developments of machine learning (ML) and artificial intelligence (AI), or investigating the usage of quantum computing. This is reflected in a new working group on "Quantum OR", in the new EURO Online Seminar Series on "Optimization and AI", and certainly by many talks in the programme of this conference.

... within EURO we respect each other and work and meet in a friendly and appreciative atmosphere. I would even call us a family (despite the large number of participants we have for this conference!). Our Equality, Diversity and Inclusion policy can be found on the EURO webpage.

Today I want to motivate you to spread these messages also to others. Let us show everybody that OR is important and modern and that we work and collaborate in a pleasant atmosphere. Let us show students that OR is a great topic to study. Let us show decision makers which support OR can provide. Together, let us continue to make OR visible.

Looking forward to the 33rd EURO conference I know that such a meeting relies on the engagement of all of us. I thank you for participating, for contributing a presentation, for enriching the exhibition, for organizing a session or a stream, for being a member of one of the EURO jury committees, and for all other activities related to the conference. My deepest thanks go to Dario Pacino and the Organizing Committee, to Marta Szachniuk and the Programme Committee, and to Joanna Józefowska and Seán McGarragh as the responsible EURO vice-presidents.

I wish all of you a great and fruitful conference!



Dario Pacino
President of DORS

1.2. President of DORS

Dear Colleagues,

On behalf of the Danish OR Society (DORS), it is my pleasure to welcome you to the 33rd European Conference on Operational Research, EURO 2024.

DORS was founded in 1962 by 15 prominent Danish researchers. Among them, the first president was the Danish telecommunications pioneer, Arne Jensen. Since then, the society has grown from 60 to over 300 members, including both academics and practitioners.

For many years, the society has focused on being the networking center for operations research practitioners, which is reflected in the name of our annual conference, "Application Of Optimization (AOO)". DORS has become the ideal place to publish OR-related job announcements and promote networking events for students and practitioners.

In recent years, DORS has renewed its efforts to be an active participant within EURO, and we are now very proud to host EURO 2024. We would like to thank all the national societies for trusting us with the organization of this event.

We also extend our gratitude to the members of the organizing committee and the program committee for making EURO 2024 a successful conference.

Wishing you all a great conference.





Dario Pacino
President of DORS



Jesper Larsen
Co-Chair of the
Organizing Committee

1.3. Chair of the Organizing Committee

Dear colleagues,

It is with great pleasure that we welcome you to the 33rd European Conference on Operational Research (EURO 2024) at the Technical University of Denmark (DTU).

DTU was funded in 1829 by the world-famous researcher Hans Christian Ørsted. DTU is a leading international technical university with the mission of creating value for the benefit of society. We take pride in basing our education, innovation, and scientific advice on the foundation of world-class research.

The division of Management Science, within the department of Technology, Management and Economics, is very honored to be entrusted the organization of this conference by the Danish OR society (DORS) and EURO. Our division includes 20 faculty professors in operations research and operations management, who have attended and contributed to the EURO conferences for many years. Using this collective knowledge, we have organised a conference that we hope you will find exceptional.

We would like to thank the entire organizing committee for all the effort to make this conference possible. We would like to thank Trine Boomsman and Dolores Romero Morales for their efforts to secure funding. In addition,

we would like to thank Richard Lusby for managing our excellent group of volunteers, and Thomas Stidsen for developing and overseeing the mathematical model used to plan the conference program.

We have planned a great venue for the conference dinner, and we have two surprises for the welcome and the farewell party. Make sure to attend those events, you will not regret it.

Copenhagen is a great city, and we hope you have planned to stay a few extra days to enjoy our proud capital. Rent a city bike and take a tour to all the classical tourist attractions or see the city from the water on a canal cruise.

We also ensured that you could buy cheap public transport tickets. Those tickets not only can get you to the airport and the conference venue, but also allow you to travel to nearby towns. You may visit Roskilde and see the cathedral or the Viking Museum. See Hamlet's famous Kronborg castle in Elsinore or visit the old harbor town of Dragør.

Have a great conference!



Marta Szachniuk
Chair of the
Program Committee

1.4. Chair of the Program Committee

In a world marked with change, uncertainty, and conflict, the ongoing quest for knowledge and innovation remains one of the few certainties in life. It is in this spirit that we come together to the beautiful city of Copenhagen for EURO 2024. With nearly 3000 participants from 68 countries, we are excited to bring together a diverse and dynamic community of researchers, practitioners, and enthusiasts of operational research.

The conference program is rich and varied, designed to inspire and challenge, as well as to foster collaboration and innovation. It includes 698 sessions organized in 79 streams, with over 2500 talks presenting the latest research in the field of OR. We are honored to feature three excellent plenary speakers who will share their cutting-edge insights and experiences. Berit Brouer will kick off the conference with her talk on decision making in the Maersk transportation network, Pascal Van Hentenryck will delve into fusing learning and optimization for engineering, and Charles Corbett, IFORS Distinguished Lecturer, will explore the profound ways in which operations interact with societal well-being and sustainable development. EURO 2024 will also host twelve keynote speakers who will address a number of critical topics. These will cover advancements in intelligent transportation systems, retail operations, humanitarian operations, disaster management, machine learning optimization, and much more. The keynotes will provide a comprehensive overview of the current state and future directions of OR, highlighting the field's impact on both industry and society. As part of our conferen-

ce we will remember the late Prof. Dr. Jakob Krarup, one of the fathers of modern operational research in Denmark and Scandinavia, Europe and the world. Professor Krarup was waiting with joyful impatience and an open heart to welcome us to his Copenhagen for EURO 2024. Walking around the DTU campus, we will remember him with great respect and warm affection.

Preparing the EURO-k conference program is a computationally difficult problem with many constraints. Its solution requires the cooperation, effort and expertise of a huge number of people. Therefore, first of all, I would like to thank all conference participants, session and stream organizers for their contributions and support. You are the ones who give the EURO 2024 conference its unique shape and flavor. My sincere thanks go also to the Organizing Committee, led by Dario Pacino and Jesper Larsen – it is thanks to their constant willingness to help, their understanding, inexhaustible supply of energy, and all the behind-the-scenes efforts that this conference has been successfully brought to life. I owe a lot to Bernard Fortz, Thomas Stidsen and Willi Weber, three superpowers who can solve any problem – thank you! Last but not least I want to thank my colleagues from the Program Committee for their kindness, smiles, encouraging words, and dedication to conference organization. Their support and enthusiasm have been like a magic elixir, making our work not only manageable but truly enjoyable. I wish you all have an excellent experience in Copenhagen, filled with fruitful discussions, new insights, and inspiring connections.

ORGANIZATION

2.1. Program Committee



Marta Szachniuk
Prof., Programme Chair
Poznan University of
Technology, Poland



Dr. Sarah Fores
University of Leeds,
United Kingdom



Maria Antónia Carravilla
Assoc. Prof. Universidade
do Porto, Portugal



Prof. Bernard Fortz
Université libre de
Bruxelles, Belgium



Prof. Emilio Carrizosa
University of Seville,
Spain



Prof. Milan Hladik
Charles University,
Czech Republic



Prof. Rita Laura D'Ecclesia
Sapienza University of
Rome, Italy



Prof. Joanna Jozefowska
Poznan University of
Technology, Poland



Prof. Audrius
Kabasinskas
Kaunas University of
Technology, Lithuania



Prof. Nikolaos Matsatsinis
Technical University of
Crete, Greece



Assoc. Prof. Jan Kronqvist
KTH Royal Institute of
Technology, Sweden



Assoc. Prof. Sean
McGarragh
University College Dublin,
School of Business,
Ireland



Assoc. Prof. Elisabeth Köbis
Norwegian University of
Science and Technology,
Norway



Prof. Dolores Romero
Morales
Copenhagen Business
School, Denmark



Assoc. Prof. Virginie Lurkin
University of Lausanne,
Switzerland



Prof. Ceyda Oguz
Koc University,
Turkey



Assoc. Prof. Dario Pacino
Technical University of
Denmark, Denmark



Prof. Tina Wakolbinger
Vienna University of
Economics and Business,
Austria



Dr. Boglárka G.-Tóth
University of Szeged,
Hungary



Prof. Grit Walther
RWTH Aachen,
Germany



Prof. Gerhard-Wilhelm
Weber
Poznan University of
Technology, Poland, EURO
conference advisor



Prof. Leroy White
University of Exeter
Business School,
United Kingdom



2.2. Organizing Committee



Dario Pacino
Local chair, Assoc. Prof
Technical University of
Denmark, Denmark



Assoc. Prof. Richard Lusby
Technical University of
Denmark, Denmark



Prof. Marta Szachniuk
Poznan University of
Technology, Poland



Assoc. Prof.
Evelien Van der Hurk
Technical University of
Denmark, Denmark



Prof. Jesper Larsen
Technical University of
Denmark, Denmark



Assist. Prof. Nina Lange
Technical University of
Denmark, Denmark



Assoc. Prof. Thomas Stidsen
Technical University of
Denmark, Denmark



Assist. Prof. David Pisinger
Technical University of
Denmark, Denmark



Assoc. Prof. Line Reinhardt
Roskilde University,
Denmark



Prof. Dolores Romero
Morales
Copenhagen Business
School, Denmark



Assoc. Prof. Trine Boomsma
University of Copenhagen,
Denmark



Prof. Stefan Røpke
Technical University of
Denmark, Denmark



Assoc. Prof. Julia Pahl
University of Southern
Denmark, Denmark



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2.3. Sponsors

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OTHER SPONSORS

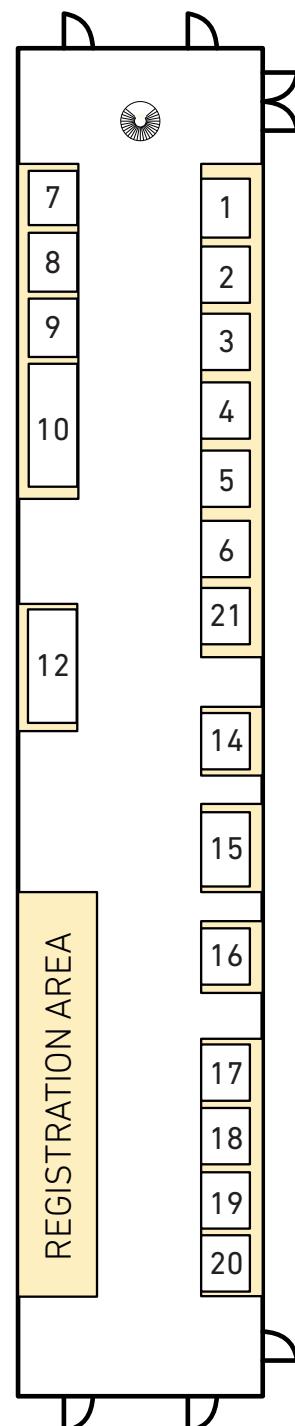


OTHER EXHIBITORS



2.4 Exhibitors

- 1 ARTELYS
- 2 THE OPTIMIZATION FIRM
- 3 FICO
- 4 Gurobi Optimization
- 5 Copenhagen Optimization
- 6 Elsevier
- 7 Mosek
- 8 CARDINAL OPERATIONS
- 9 Flowty
- 10 ScheduleOpt
- 12 LocalSolver
- 14 Springer
- 16 GAMS Software
- 17 DTU Management
- 18 QAMPO
- 19 AMPL
- 20 EURO 2025
- 21 IFORS

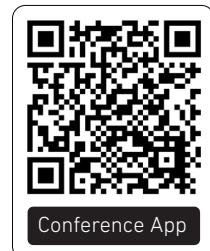


PROGRAMME AT A GLANCE

3.1 Program Overview

Conference Schedule		30 June - 3 July 2024		
	Sunday	Monday	Tuesday	Wednesday
08:30 - 10:00		Parallel Sessions	Parallel Sessions	Parallel Sessions
09:30 - 11:00			Morning Coffe	
10:30 - 12:00		Parallel Sessions	Parallel Sessions	Parallel Sessions
11:30 - 14:00			Lunch	
12:30 - 14:00		Parallel Sessions	Parallel Sessions	Parallel Sessions
13:30 - 15:00			Afternoon Coffee	
14:30 - 16:00		Parallel Sessions	Parallel Sessions	Parallel Sessions
16:30 - 17:30	Opening Session	Plenary	Plenary	Plenary
After 17:30	Welcome Party		Gala Dinner	Closing Session + Farewell Party

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 exploit the full offline capabilities of the app, click on the button "Add to home screen".



Plenaries and Keynotes program

Conference Schedule		30 June - 3 July 2024	
	Monday	Tuesday	Wednesday
08:30 - 10:00	Graham Rand	Pascale Zarate	Peter Biro
09:30 - 11:00			Morning Coffe
10:30 - 12:00	Immanuel M. Bomze	Emma Frejinger	Javier Alonso-Mora
11:30 - 14:00			Lunch
12:30 - 14:00	Ruben Ruiz	Milos Kopa	Bahar Yetis Kara
13:30 - 15:00			Afternoon Coffee
14:30 - 16:00	Pedro Amorim	Veronica Piccialli	Maria Besiou
16:30 - 17:30	Berit Brouer	Pascal van Hentenryck	Charles Corbett

Berit Dangaard Brouer

Principal engineer for data
and decision science at
Maersk



3.2. Invited Plenary Speakers

Charting the course:
How to power decision making
in the Maersk transportation
network with decision science

BIO:

Berit Dangaard Brouer has a long academic and practical experience in the design and implementation of solutions to large scale optimization problem for the maritime industry. After working for IBM and Ange Optimization on optimization algorithms for container liner shipping, she successfully completed a PhD in operations research at the Technical

University of Denmark (DTU), where she has been studying algorithms to solve container liner network problems. Within the maritime OR community, she is especially known for her work on the development of the LinerLib benchmark and related solution methods. The benchmark has been the inspiration for much other maritime related research.

Berit Dangaard Brouer continued her carrier as a practitioner of OR within the maritime optimization, first at Optivation and now at Maersk. Based on her extensive knowledge of the maritime sector and of optimization research, I personally look very much forward hearing her talk.



Charles J. Corbett
 Professor of Operations
 Management and
 Sustainability, UCLA

The operations of well-being:

BIO:

Charles Corbett, Ph.D., is the IBM Chair in Management and Professor of Operations Management and Sustainability at the UCLA Anderson School of Management; he holds a joint appointment at the UCLA Institute of the Environment and Sustainability. He served as Chairman and Deputy Dean of Academic Affairs from 2009-2012, and previously as Associate Dean of the MBA program. He has received the Neidorf "Decade" Teaching Award, Citibank Teaching Award, the Executive MBA Class of 2006 Outstanding Teaching Award and the Robbins Assistant Professor teaching award, in addition to the UCLA Staff Assembly's Faculty/Staff Partnership Award and the Anderson School's J. Clayburn LaForce Faculty Leadership Award. He was an AT&T Faculty Fellow in Industrial Ecology. He founded and co-directed the award-winning UCLA Leaders in Sustainability graduate certificate program and the Easton Technology Leadership Program.

His areas of teaching include sustainable operations and supply chains, time management and well-being, and operations of entrepreneurs and small business,. He has given (semi)plenary and keynote lectures at conferences in Amsterdam, Bali, Istanbul, Lima, Mexico City, Montreal, Paris, Sao Paulo, Salvador (Brazil), Shanghai, Tainan (Taiwan), and Wrocław (Poland).

His current research focuses on sustainable operations and on time management and wellbeing. He has published in leading academic and business journals, including Sloan Management Review, California Management Review, Operations Research, Management Science, Manufacturing & Service Operations Management, European Journal of Operational Research, the Journal of the Operational Research Society, Production and Operations Management, Energy, Environmental and Resource Economics, Journal of Industrial Ecology, and others. Dr. Corbett served as Editor-in-Chief of Foundations and Trends in Technology, Information and Operations Management; he has been guest editor of three special issues of Production and Operations Management on Environmental Management & Operations and has held various editorial positions at other leading journals including Management Science, POM and the Journal of Industrial Ecology. His 2006 study on sustainability in the motion picture industry was featured in media outlets worldwide, including CNN, the Los Angeles Times, the New York Times, The Guardian, La Opinion, and various radio and TV stations. He was elected a lifetime Fellow of the Production and Operations Management Society in 2013 and of the Manufacturing and Service Operations Management Society in 2019.

Professor Corbett holds a Ph.D. in Production and Operations Management from INSEAD in Fontainebleau, France, and a Drs. in Operations Research from Erasmus University Rotterdam (Netherlands).

Fusing learning and optimization for engineering

BIO:

Pascal Van Hentenryck is an A. Russell Chandler III Chair and Professor in the H. Milton Stewart School of Industrial and Systems Engineering at Georgia Tech. Prior to this appointment, he was a professor of Computer Science at Brown University for about 20 years, he led the optimization research group (about 70 people) at National ICT Australia (NICTA) (until its merger with CSIRO), and was the Seth Bonder Collegiate Professor of Engineering at the University of Michigan. Van Hentenryck is also an Honorary Professor at the Australian National University.

Van Hentenryck is a Fellow of AAAI (the Association for the Advancement of Artificial Intelligence) and INFORMS (the Institute for Operations Research and Management Science). He has been awarded two honorary doctoral degrees from the University of Louvain and the university of Nantes, the IFORS Distinguished Lecturer Award, the Philip J. Bray Award for teaching excellence in the physical sciences at Brown University, the ACP Award for Research Excellence in Constraint Programming, the ICS INFORMS Prize for Research Excellence at the Intersection of Computer Science and Operations Research, and an NSF National Young Investigator Award. He received a Test of Time Award (20 years) from the Association

Pascal Van Hentenryck

Professor of Industrial Engineering, Georgia Tech



on of Logic Programming and numerous best paper awards, including at IJCAI and AAAI. Van Hentenryck has given plenary/semi-plenary talks at the International Joint Conference on Artificial Intelligence (twice), the International Symposium on Mathematical Programming, the SIAM Optimization Conference, the Annual INFORMS Conference, NIPS, and many other conferences. Van Hentenryck is program co-chair of the AAAI'19 conference, a premier conference in Artificial Intelligence.

Van Hentenryck's research focuses in Artificial Intelligence, Data Science, and Operations Research. His current focus is to develop methodologies, algorithms, and systems for addressing challenging problems in mobility, energy systems, resilience, and privacy. In the past, his research focused on optimization and the design and implementation of innovative optimization systems, including the CHIP programming system (a Cosytec product), the foundation of all modern constraint programming systems and the optimization programming language OPL (now an IBM Product). Van Hentenryck has also worked on computational biology, numerical analysis, and programming languages, publishing in premier journals in these areas.

Van Hentenryck runs the Seth Bonder summer Camp in Computational and Data Science for middle- and high-school students every summer.



Ruben Ruiz

Principal Applied Scientist at Amazon Web Services (AWS)
Professor of Statistics and Operations Research,
Universitat Politècnica de València

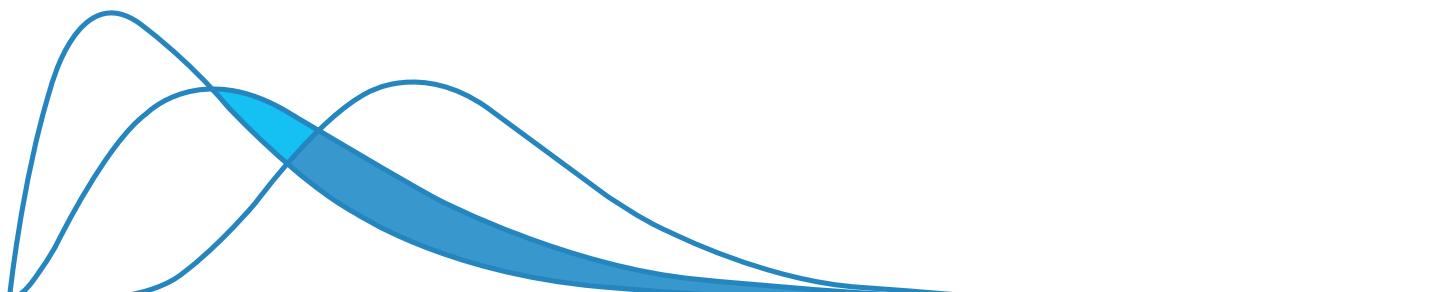
3.3. Invited Keynote Speakers

Optimal is the enemy of good:
Solving very large scale virtual machine placement problems at Amazon Elastic Compute Cloud

BIO:

Ruben Ruiz is Principal Applied Scientist at Amazon Web Services (AWS) and Full Professor of Statistics and Operations Research on leave of absence at the Polytechnic University of Valencia, Spain. He is co-author of more than 100 papers in International Jour-

nals and has participated in presentations of more than two hundred papers in national and international conferences. He is editor of the Elsevier's JCR-listed journal Operations Research Perspectives (ORP) and co-editor of the JCR-listed journal European Journal of Industrial Engineering (EJIE). He is also associate editor of other journals like TOP and member of the editorial boards of several journals most notably European Journal of Operational Research and Computers and Operations Research. His research interests include scheduling and routing in real life scenarios as well as cloud computing scheduling.



Optimizing machine learning: Enhancing interpretability and performance through mathematical optimization

BIO:

Veronica Piccialli is Full Professor in Operations Research at DIAGSapienza University of Rome since September 2021. Before she was first Assistant Professor and then Associate Professor at University of Rome Tor Vergata. Since 2019 she is Associate Editor in the area "Design and Analysis of Algorithms: Conti-

Veronica Piccialli

Professor in Operations
Research, Sapienza
University



nuous" for INFORMS Journal on Computing, and since 2021 she is Associate Editor of EURO Journal on Computational Optimization.

Her research interests are: Semidefinite Programming, Mixed Integer Nonlinear Programming, Machine Learning and Optimization, Interpretability of Machine Learning Algorithms, Global Optimization.

Since 2015 she is collaborating with LRGP and LORIA at Université de Lorraine on Process Engineering Optimization.





Péter Biró

Research fellow,
Hungarian Academy of
Sciences

Research fellow, Hungarian Research Network & Corvinus University of Budapest

BIO:

Péter Biró graduated with an MSc in Mathematics at Budapest University of Technology and Economics in 2003, and then received his PhD in Mathematics and Computer Science at the same institute in 2007. During this period, he also studied economics for five years at Corvinus University of Budapest, graduating with MSc in 2007. Afterwards, he was a postdoctoral fellow at the Computer Science Department, University of Glasgow for three and a half years. In 2010 he moved back to Budapest, and since then he has a research position at the Institute of Economics, KRTK, Hungarian Academy of Sciences, which was later renamed to Eötvös Loránd Research Network. From 2010 to 2016 he worked in the Game Theory research group, and in 2016 he established his own research group on Mechanism Design, funded by the Momentum

Grant of the Hungarian Academy of Sciences. He also teaches part time at the OR Department, Corvinus University of Budapest since 2013. He was on sabbatical from the Budapest positions twice, first in 2014 as a visiting professor at the Economics Department, Stanford University invited by Al Roth for a year, and then in 2023, when he co-organised and participated in a 4-month program at Simons Laufer Mathematical Sciences Institute, Berkeley, USA.

His research interest lies in the interdisciplinary fields of Market Design, Engineering Economics, and in particular matching problems under preferences. In his research he uses multiple approaches including game theory, algorithm theory, graph theory, and optimisation. Besides the theoretical studies, he has been involved in several practical applications, such as the UK kidney exchange programme, the Scottish resident allocation scheme, and the Hungarian higher education admission scheme.

Humanitarian operations: How can research help them become more efficient, effective and sustainable?

BIO:

Maria Besiou is Dean of Research and Professor of Humanitarian Logistics at Kühne Logistics University (KLU), Hamburg, Germany. She received her Ph.D. in Mechanical Engineering and Operations Management from Aristotle University of Thessaloniki (AUTH) in Greece. Before joining KLU she worked as a Postdoctoral Research Fellow at INSEAD, France.

Besiou's specialization is on the field of sustainable supply chain management. Her main research interests are in humanitarian logistics, and closed-loop supply chains. Her research focuses on real problems that commercial companies and humanitarian organizations face and their decision-making, while managing their supply chains.

Maria Besiou

Professor of Humanitarian Logistics, Kühne Logistics University



Prof. Besiou serves as the Academic Director of the Center of Humanitarian Logistics and Regional Development (CHORD). Her research appears in several case studies, award-winning papers and peer-review international journals. Prof. Besiou serves as an Associate Editor in the Department of Humanitarian Operations in Decision Sciences Journal and the Journal of Humanitarian Logistics and Supply Chain Management (JHLSCM), as a Senior Editor of the Disaster Management Department (DMD) of Production and Operations Management (POM), and on the editorial review boards of Journal of Operations Management (JOM) and Production and Operations Management (POM).

She has served as a Coordinator of EURO Hope (European Working Group on Humanitarian Operations) and as the President of the College of Humanitarian Operations and Crisis Management (HOCM) at the Production and Operations Management Society (POMS). In 2022 she received the American Logistics and Aid Network's (ALAN) Research and Academic Contribution Award for her work researching and teaching humanitarian logistics.



Miloš Kopa

Assoc. Prof. of Operations
Research, Charles
University of Prague

Stochastic dominance in decision making under uncertainty

BIO:

Miloš Kopa is an associate professor at Charles University in Prague, chair of Department of Probability and Mathematical Statistics, Faculty of Mathematics and Physics and Director of Financial Mathematics study programme. He received Ph.D. degree in Mathematics (specialization: Econometrics and Operations research) in 2006.

He is the secretary (and former chair) of EURO working group on stochastic optimization. He is an active member of several other scientific international societies: Stochastic Programming Community, EURO working group on commodities and financial modelling, EUROPT.

In Czech Republic, he is the president of the Czech Society for Operations Research, a member of expert group for Mathematics and Economics of the Czech National Accreditation Authority and the former chair of expert committee for Finance and Operations research (panel 403) of the Czech Science Foundation. The research of Miloš Kopa is focused on: stochastic programming theory and applications, especially financial applications. In recent years he has published several papers dealing with portfolio efficiency; risk measures; stochastic dominance criteria; data envelopment analysis and its relation to stochastic dominance; robustness (contamination) in stochastic programs; ALM management; Decision dependent randomness problems, etc.



Bahar Yetis Kara

Professor of Industrial
Engineering,
Bilkent University



Professor of Industrial Engineering, Bilkent University

BIO:

Bahar Yetis Kara is a Professor in the Department of Industrial Engineering at Bilkent University where she has been a faculty member since 2001. Dr. Kara holds an M.S. and Ph.D. degree from Bilkent University Industrial Engineering Department, and she worked as a Post-doctoral Researcher at McGill University in Canada.

Dr Kara's current research interests include distribution logistics, humanitarian logistics, hub location and hub network design. Dr. Kara

is one of the founders and a member of the executive board of the EURO Working Group on Humanitarian Operations (HOpe). She is also a member of the executive board of Bilkent University and of Turkish OR Society. Dr. Kara edited 4 books and authored/co-authored more than 80 journal and conference papers. Dr. Kara holds "Best Dissertation Award" given by INFORMS-UPS-SOLA (2001), TUBA-GEBIP (National Young Researchers Career Development Grant) reward (2008), IAP Young Researchers Award (2009), and TÜBİTAK Young Scientist Incentive Award (2010). She is currently working as an associate editor of Transportation Research- Part B, Journal of Operational Research Society, IIE Transactions, and Socio Economic Planning and Science.





Inmanuel Bomze
Professor of Operations
Research, University of
Vienna

Need to relax - but perhaps later? Reflections on modeling sparsity and mixed-binary nonconvex problems

BIO:

Immanuel M. Bomze was born in Vienna, Austria, in 1958. He received the degree Magister rerum naturalium in Mathematics at the University of Vienna in 1981. After a post-graduate scholarship at the Institute for Advanced Studies, Vienna from 1981 to 1982, he received the degree Doctor rerum naturalium (Ph.D.) in Mathematics at the University of Vienna. After his Habilitation 1987, he held several visiting research positions at various research institutions across Europe, the Americas, Asia and Australia. He also gained some practical Operations Research experience during his work as a research mathematician in the Business & Marketing Research/Operations Research group of the national incumbent telecommunication operator Telekom Austria 2002-2004. Since 2004, he holds a chair (full professor) of Applied Mathematics and Statistics at the University of Vienna.

Bomze's research interests are in the areas of nonlinear optimization, qualitative theory of dynamical systems, game theory, mathema-

tical modelling and statistics, where he has edited one and published four books, as well as over 120 peer-reviewed articles in scientific journals and monographs. The list of his co-authors comprises over ninety scientists from more than a dozen countries in four continents. In 2014 he was elected Fellow of EurOpt, the Continuous Optimization Working Group of EURO, the Association of European Operational Research Societies.

As a member of program and/or organizing committees, he co-organized various scientific events and he is an Associate Editor for five international journals. For several science foundations and councils (based in Canada, the Czech Republic, Germany, Great Britain, Hong Kong, Israel, Italy, the Netherlands, Norway, Portugal, Singapore, Spain, USA), and for almost 50 scientific journals he acted as a reporting referee. 2011–2017 he served as an Editor (Co-EiC) of the European Journal of Operational Research, and since 2021 he serves as sole EiC of the EURO Journal of Computational Optimization. Bomze co-founded the Vienna Center of Operations Research (VCOR) and serves as its co-director. As elected president of EURO, he served 2018–2020 and, as Past President, in the EURO Executive Committee until end of 2021.

Empirically driven operations research for improving retail operations

BIO:

Master of Science and Doctor of Philosophy in Industrial Engineering and Management by FEUP.

Head of the Research Center for Industrial Engineering and Management from INESC TEC Laboratório Associado.

Co Founder of LTPlabs - consultancy company that applies advanced analytical methods to help make better complex decisions.

Pedro Amorim

Associate Professor of Industrial Engineering,
University of Porto



Specialist in supply chain planning with an emphasis on food products. He was Supply Chain Analyst at Total Raffinage Marketing (França). Researcher/Consultant in several projects related to Operations Management and supported by different types of entities.

Author of several publications in international journals in the field of Operations Research (for example, International Journal of Production Economics, Industrial Engineering and Chemistry Research, Computers and Chemical Engineering, Interfaces)





Emma Frejinger
Professor of Operations
Research, Université de
Montréal

A Contextual Stochastic Optimization Perspective on Demand Prediction for Decision Making

BIO:

Emma Frejinger is a professor in the Department of Computer Science and Operations Research at Université de Montréal where she holds a Canada Research Chair and an industrial chair funded by the Canadian National Railway Company. Her research is application-driven and focuses on innovative combina-

tions of methodologies from machine learning and operations research to solve large-scale decision-making problems. Emma has extensive experience working with industry, particularly within the transportation sector, where she has led collaborative research projects. Since 2018, she also works as a scientific advisor for IVADO Labs developing AI solutions for the supply chain industry. Before joining Université de Montréal in 2013, Emma was a faculty member at KTH Royal Institute of Technology in Sweden. She holds a Ph.D. in mathematics from EPFL (Switzerland).



To be OR - key Danish contributors to the history of OR, IFORS and EURO

BIO:

Graham Rand retired in 2016 after 43 years in Operational Research at Lancaster University, UK. The Operational Research Society made him a Companion of Operational Research in 2006, and he became a Fellow of the International Federation of Operational Research Societies in 2021.

He served a term as Council Member and was twice Conference Chairman of the British Operational Research Society. He edited the Journal of the Operational Research Society from 1991-1996, and from 2014-2022 the So-

Graham Rand
Senior Lecturer,
Lancaster University



ciety's magazine, Impact. For the International Federation of Operational Research Societies (IFORS) he was Vice-President (1998-2000) and was editor of both International Abstracts in Operations Research (1980-1991) and International Transactions in Operational Research (2000-05). He was editor of the proceedings of the IFORS Conference held in Buenos Aires in 1987, and Chairman of the Program Committee for the IFORS Conference held in Athens in 1990. For the European Association of Operational Research Societies he was chairman of the Gold Medal jury in 1995. He was a founder member of both the International Society for Inventory Research (1983) and the Operations Management Association (1985). He was President of Omega Rho, the international honor society for Operational Research in 2012-2014



Pascale Zaraté

Professor of Computer
Science, Toulouse Capitole
University

Decision support systems: History and trends

BIO:

Pascale Zaraté is a Professor at Toulouse Capitole University. She conducts her research at the IRIT laboratory. She holds a Ph.D. in Computer Sciences / Decision Support from the LAMSADE laboratory at the Paris Dauphine University, Paris (1991). Pascale Zaraté's

current research interests include Decision Support Systems, Group Decision Support Systems, Recommender systems. She published several manuscripts: 3 books, edited 6 books, edited 18 special issues in several international journals, 11 proceedings of international conferences, 30 papers in international journals, 2 papers in national journals, 7 chapters in collective books, 52 papers in international conferences.



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Planning for intelligent transportation systems: Ride-pooling, last-mile logistics and self-driving vehicles

BIO:

Javier Alonso-Mora is an Associate Professor at the Cognitive Robotics department of the Delft University of Technology, where he leads the Autonomous Multi-robots Laboratory. He is a Principal Investigator at the Amsterdam Institute for Advanced Metropolitan Solutions and co-founder of The Routing Company. He is actively involved in the Delft robotics ecosystem, including the Robotics Institute, the Transportation Institute and Robovalley.

Before joining TU Delft, Dr. Alonso-Mora was a Postdoctoral Associate at the Computer Science and Artificial Intelligence Lab of the Massachusetts Institute of Technology. He re-

Javier Alonso Mora
Associate Professor at
Delft University of
Technology, Netherlands



ceived his Ph.D. degree in robotics from ETH Zurich, where he worked in the Autonomous Systems Lab, and in partnership with Disney Research Zurich. Dr. Alonso-Mora holds a Diploma in Engineering and a Diploma in Mathematics from the Technical University of Barcelona, where he was part of the Interdisciplinary Higher Education Centre and the Robotics Institute.

His main research interest is in navigation, motion planning and control of autonomous mobile robots, with a special emphasis on multi-robot systems, on-demand transportation and robots that interact with other robots and humans in dynamic and uncertain environments. He is the recipient of multiple prizes and grants, including the ICRA Best Paper Award on Multi-robot Systems (2019), an Amazon Research Award (2019) and a talent scheme VENI award from the Netherlands Organisation for Scientific Research (2017).

3.4. Special Sessions



3.4.1. WISDOM

The EURO WISDOM (Women In Society Doing Operational Research and Management Science) Forum promotes the participation of all genders in OR. You'll find more information about the EURO WISDOM Forum [here](#).

The Forum will host several sessions at EURO. We invite you to join us at:

1. WISDOM Workshop, Sunday 30th June

14.00 - 16.15, Room S01 Building 101.

You are welcome to join us for an insightful panel discussion on "**Networking as a tool for career progression**" with Prof Anna Nagurney and leadership coach Margaret Collins, moderated by WISDOM chair Assoc. Prof. Paula Carroll. The workshop is open to all EURO conference attendees and registration for the workshop is not needed. For more information, reach out to wisdom@euro-online.org.

2. Young Women for OR (YW4OR) Special Sessions.

YW4OR is a visibility initiative for young women at the early stages of their career in OR. The special sessions are an opportunity to spotlight the recent and ongoing work of these researchers. We invite all EURO participants to attend the YW4OR sessions, summary below.

YW4OR_1, Chair: Dilek Gunnec, Ozyegin University, Wednesday 8:30-10:00, building 116, room 13

- Mariana Mesquita-Cunha, A methodology to tackle multi-objective linear programming problem
- Paula Segura Martinez, An overview of arc routing problems with drones
- Emilia Grass, Building resilience of critical infrastructures in times of crisis
- Marta Baldomero-Naranjo, Upgrading arcs in the covering tour problem

YW4OR_2, Chair: Heletjé van Staden, School of Business, University College Dublin, Ireland Wednesday 10:30-12:00, building 116, room 13

- Mirjam Meijer, Complexities in high-tech manufacturing
- Shany Azaria, Leveraging operations management to improve access to justice: A research agenda on court congestion
- Qin Zhou, Managing manufacturer encroachment and product conflicts in a closed-loop supply chain: The case of information asymmetry
- Hannah Bakker, On the interplay between data and decisions in discrete location problems

YW4OR_3, Chair: Marcella Samà, Roma Tre University, Wednesday 12:30-14:00, building 116, room 13

- Fatima Ezzahra Achamrah, Artificial intelligence to improve decision-making frameworks
- Maryam Karimi Mamaghan, Machine learning at the service of meta-heuristics for solving combinatorial optimization problems

- Kseniia Kurishchenko, Novel mathematical optimization models for explainable and fair machine learning

YW4OR_4, Chair: Paula Carroll, School of Business, University College Dublin, Ireland Wednesday 14:30-16:00, building 116, room 13

- Thu Huong Dang, A biography
- Serena Fugaro, How to “locate” Mathematics in everyday life
- Laura Davila-Pena, My (short) research journey: past accomplishments, present projects, and future aspirations

- WISDOM YW4OR Awards – join us as the YW4OR receive their awards!

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 here, keep up to date with our activities on LinkedIn here, or reach out to wisdom@euro-online.org.

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3.4.2. Making an impact (EURO Practitioners' Forum Stream)

(Stream organisers: Sander van Aken, João Pava Fonseca, Johan Kellerth Fredlund, Ruth Kaufman, Michele Quattrone)

“Making an Impact” is a stream with a difference. Every session is designed to help with the issues faced when we put OR into practice, whether they are issues around people, technology, methods, or personal development. Most sessions are participative, and aim to help build networks and connections across practice and academia. Everyone with an interest in practical OR is welcome.

At MAI sessions you can:

- Get a rapid and inspiring overview of some of the exciting OR going on in practice, at the 'Fast and Furious' session;
- Develop your skills with workshops and tutorials on human-centred analytics, latest apps, coding, and optimisation tips; and a review of Generative AI;
- Listen to expert panel members, ask them questions and share your own experience at a variety of panel discussions and round tables on important topics;
- Share your own challenges, and make valuable connections, at speed networking and open space problem discussion sessions.

Room 40, Building 324, stream 46

Latest details of speakers: euro2024cph.dk/programme/making-an-impact-2024

	Monday 1st July	Tuesday 2nd July	Wednesday 3rd July
A 8.30-10.00	Fast And Furious: Lightning Talks	Generative AI For OR People: Disruptor, Enabler, Or Distraction?	Not the Excellence in Practice Award: lifting the lid on practice
B 10.30-12.00	Speed Networking	What's on your mind? – getting what you want from this conference	Practical Skills: Knowledge Sharing Tutorial -2- Coding; optimisation tips
C 12.30-14.00	Practical Skills: Knowledge-Sharing Tutorials -1- Streamlit; Kubernetes	From Academia To Practice: Reflections From Those Who Have Taken The Leap	Which solver?
D 14.30-16.00	The Quest for the Right OR Professionals – A Hiring Perspective	Success, failure and the factors that influence outcomes	Maria Besiou

Jakob Krarup



3.4.3. Memorial Session

Monday 1.st of July 2024
Akademivej Building 358, Room R021 (ground floor) 2800 Kgs. Lyngby

Professor Jakob Krarup passed away in the beginning of 2023. He will be remembered for his huge engagement in EURO, which was a central part of his life for almost 50 years. Jakob was president of EURO in 1989-1990, and he is the only person who has been chairman of the program committee at two EURO conferences.

In 2009, Jakob received the EURO Distinguished Service Medal for his work within EURO. In memory of Jakob Krarup, we are holding a memorial session with talks from people who knew him well.

The Memorial session is part of EURO-2024 conference at DTU. If you only participate in the memorial session and the following reception, you do not need to register for the conference. Everybody is welcome, but the room can only accommodate 150 persons. Parking is free at DTU, as long as you park inside the marked stalls.

Program:

14:00 - 16:00 Memorial Session
16:30 - 17:30 Plenary talk, Graham Rand
(video recording from Monday morning)
17:30 - 19:00 Reception

Speaches at the memorial session:

Speaker: Prof. Ulrike Leopold-Wildburger,
University of Graz

Title: Jakob Krarup as permanent guest professor at Karl Franzens University Graz in Austria

Speaker: Prof. Dr. Gerhard Wilhelm Weber

Title: Some thoughts of sincere gratitude to Professor Jakob Krarup - our mentor and friend

Speaker: Prof. Stanislaw Walukiewicz

Title: Jakob Krarup. Very personal remarks

Speaker: Prof. Leonidas Sakalauskas,
President of LitORS

Title: Cooperation with Jacob Krarup, his impact for OR development in Baltics

Speaker: Prof. Dr. Lidija Zadnik Stirn,
University of Ljubljana

Title: A few souvenir photos of our friend Prof Jakob Krarup, a remarkable personality and great supporter of the EURO member societies

Closing:

We close the session by reading up a few words from Helle Welling, former Secretary of IFORS

3.4.4. EURO Awards

EURO Gold Medal (EGM 2024)

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 2024 Jury:

- Mirjam Duer (Germany) - chair
- Ivana Ljubic (France)
- Justo Puerto Albandoz (Spain)
- Ahti Salo (Finland)
- Silvano Martello (Italy)

EURO Distinguished Service Award (EDSA 2024)

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.

Members of the 2024 Jury:

- Michel Bierlaire (Switzerland) - chair
- Daniele Vigo (Italy)
- Sally Brailsford (UK)
- Josef Jablonský (Czech Republic)
- Metin Türkay (Turkey)

EURO Doctoral Dissertation Award (EDDA 2024)

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. Five finalists will present their work at a special session during the conference.

2024 Finalists:

- Spyridon Pougkakiotis: Regularized Interior Point Methods for Convex Programming
- Matthias Soppert: Demand Management in Shared Mobility Systems
- Cristina Molero-Río: Enhancing classification and regression trees. A mathematical optimization approach
- Jan-Rasmus Kuennen: Advanced Demand-Capacity Balancing Mechanisms to Improve Performance of European Air Traffic Networks
- Henri Lefebvre: Adjustable Robust Optimization with Non-Linear Recourse

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

Members of the 2024 Jury:

- Laura Palagi (Italy) - chair
- Marjan van den Akker (Netherlands)
- Violeta Cvetkoska (North Macedonia)
- Rym M'Halla (UK)
- Frédéric Semet (France)

**EURO Excellence in Practice Award
(EEPA 2024)**

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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 special sessions during the conference.

2024 Finalists:

- Trung Hieu Tran, Thi, Thu Ba Nguyen, Thi Hoa Sen Le, Duc Chính Phùng, Hoai Chung Pham, Phuong Le Nguyen, Thi Anh Phuong Huynh: Optimal Planning Tool for Agricultural Waste Management in Vietnam (OPT-AWAMA)
- Louis Bouvier, Thaddeus Leonard, Guillaume Dalle, Axel Parmentier: Renault Group Packaging Return Logistics in Europe
- El Mehdi Er Raqabi, Issmail El Hallaoui, Nizar El Hachemi, François Soumis, Ahmed Beljadid, Mohammed Ali Bennouna, Nabil Si Hammou, Michel Fender, Anouar Jamali, Hicham Guellaf, Ilyas Rakhis: OCP Optimizes Its Supply Chain For Africa and The World

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

Members of the 2024 Jury:

1. Ruth Kaufman (UK) - chair
2. Carolin Trouet (Germany)
3. Frédéric Gardi (France)
4. Tobias Achterberg (Germany)
[GUROBI rep]
5. Mauro dell'Amico (Italy)

**EURO Prize for OR for the Common Good
(EPOCG 2024)**

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

2024 Finalists:

- Jan Boeckmann, Clemens Thielen: Rethinking Municipal Flood Mitigation: A Real-World Application of Operations Research Methods for Improving Climate Resilience
- Ohad Eisenhandler, Gur Mittleman, Moshe Tshuva, Ronen Eran, Lev Zivin, Yossi Luzon: The potential of renewable electricity in isolated grids: The case of Israel in 2050
- Ashraf Labib, Dylan Jones: Formulation of Strategy Towards the ARCTIC in terms of Search and Rescue – Needs, Innovations, and AI/OR based solutions

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

Members of the 2024 Jury:

- Cathal Brugha (Ireland) – chair
- Claudia D'Ambrosio (France)
- Alec Morton (UK)
- Eeva Vilkkumaa (Finland)
- Ulrike Reisach (Germany)

EURO Award for the Best EJOR Paper (EABEP 2024)

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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.

Members of the 2024 Jury:

- Lars-Magnus Hvattum (Norway) – chair
- Bernardetta Addis (France)
- Valentin Bertsch (Germany)
- Emanuele Borgonovo (Italy) [EJOR rep]
- Agostinho Agra (Portugal)

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3.5. Lunches & Breaks

Lunch will be served in buildings 101, 116, 202, 303A and 306. Vegan (lactose free) and vegetarian options are available in all the lunch areas. If you registered for a gluten-free diet, your lunches will be served in building 101. Contact our staff and show your name badge. Only those that have registered the gluten-free option will be served the special lunch.

Tap water in Denmark is of excellent quality and is more sustainable than buying bottled water. Only tap water will be available during the EURO 2024 including the breaks, so please remember to collect your free water bottle at the registration counter next to the Self-Print-Kiosks in Building 101. Consult the conference maps to see where water dispensers are available. You can also fill your water bottle in any lavatories.

Coffee/tea and snacks will only be available in the scheduled breaks.



Look for this symbol in the building maps to find the position of all the water dispensers.

3.6. Session guidelines

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. Note, there are no PCs available in the lecture room.

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 2024 includes a projector with HDMI connection. Most rooms also have the possibility to connect through USB-C, but we do suggest you bring your own adapter for security. The room equipment DOES NOT include a PC; hence, we strongly suggest speakers bring their own PCs. It is not possible to borrow PCs from the venue.



3.7. Social Program

Welcome party

Date: Sunday, June 30th 2024

Venue: Between buildings 202 and 208

Time: Immediately after the Opening Session,
until 19:30.

Gala Dinner

Date: Tuesday, July 2nd 2024

Venue: Langelinie Pavillonen,

Time: 19:00 - 23:00

Farewell Party

Date: Wednesday, June 3rd 2024

Venue: Between buildings 202 and 208

Time: Immediately after the Closing Session,
until 20:00.

NB. that attendance to the welcome and farewell party is included in the registration fee. The Gala Dinner is fully booked, but you can ask in the registration desk if cancellation tickets are available.



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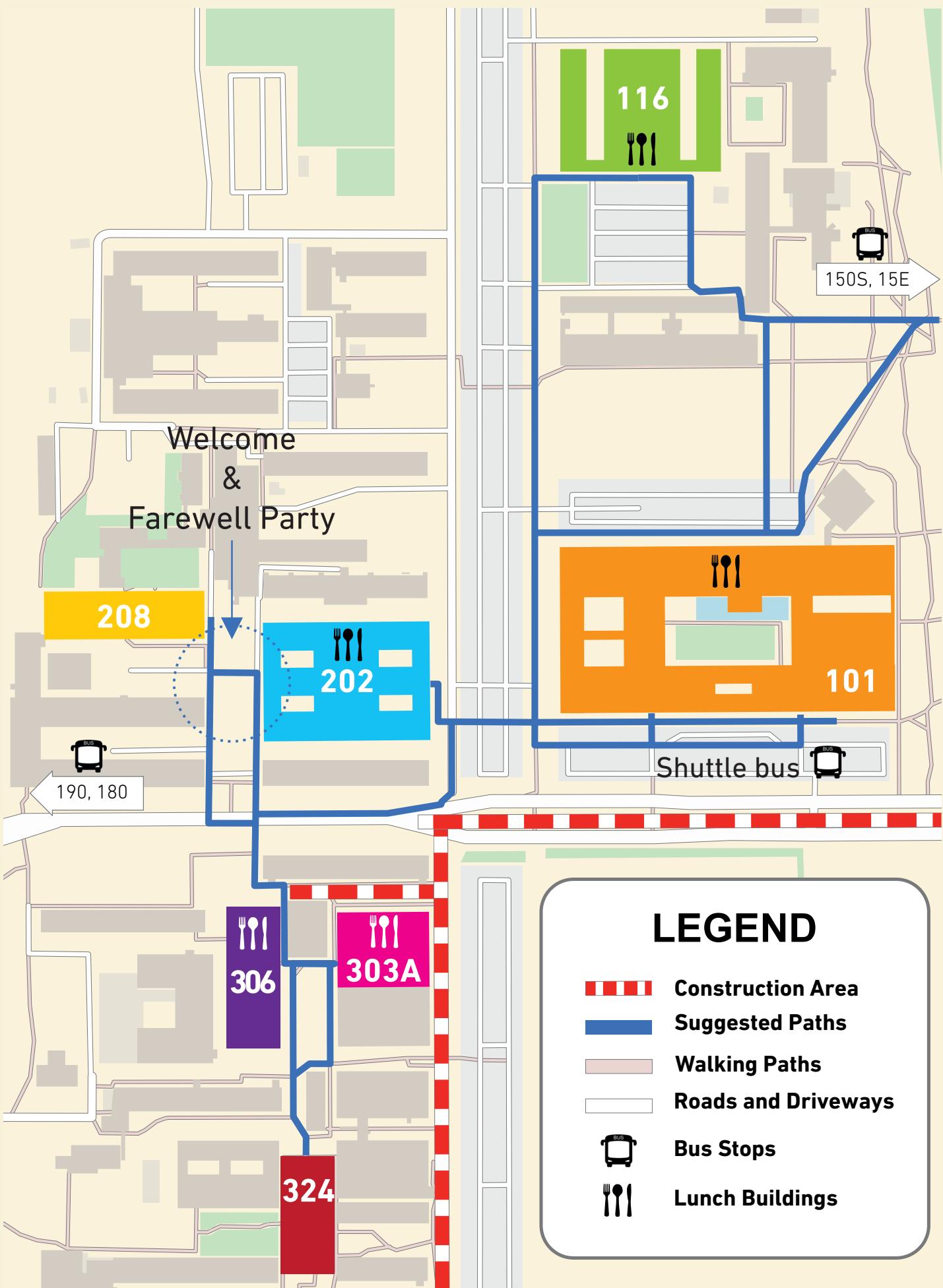
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- ▷ Mixed integer

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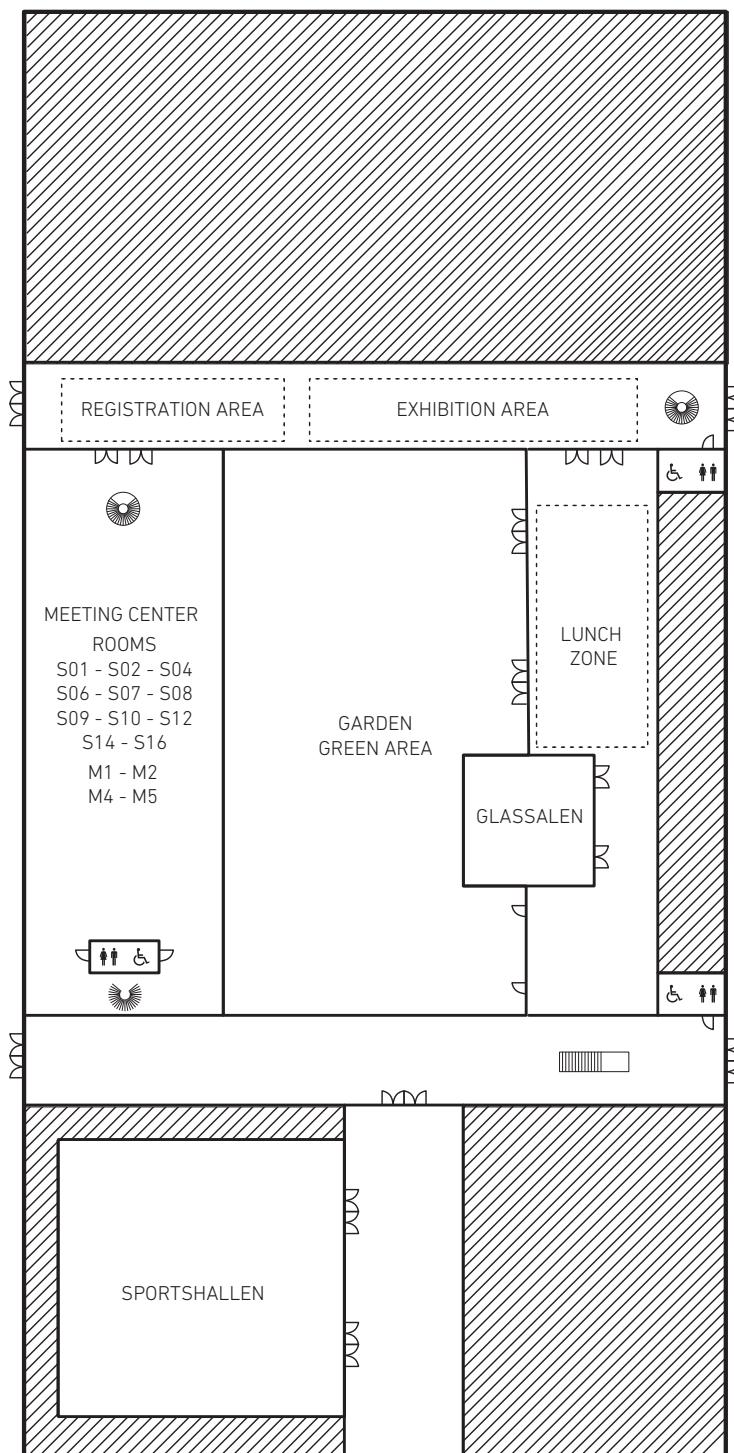
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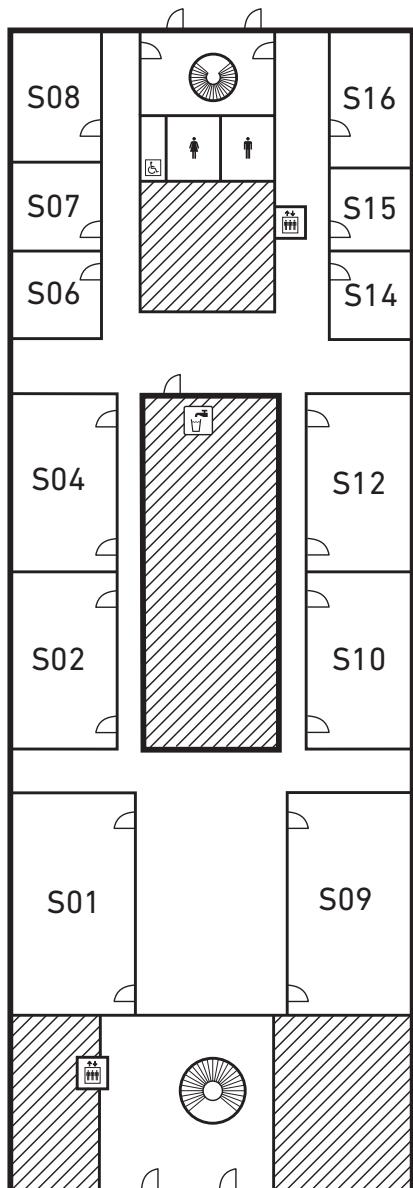


Building 101

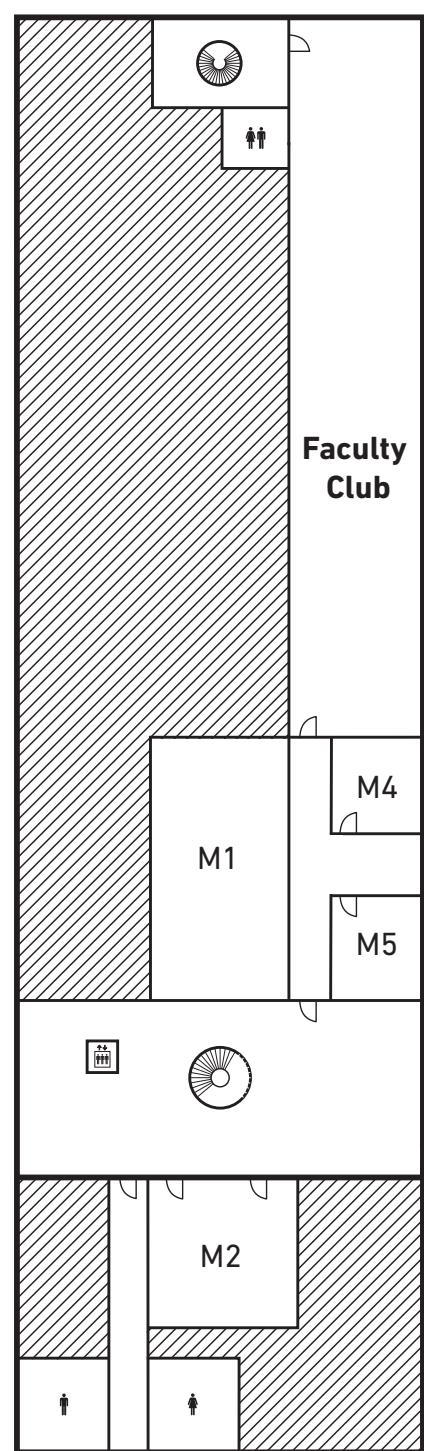


Meeting center

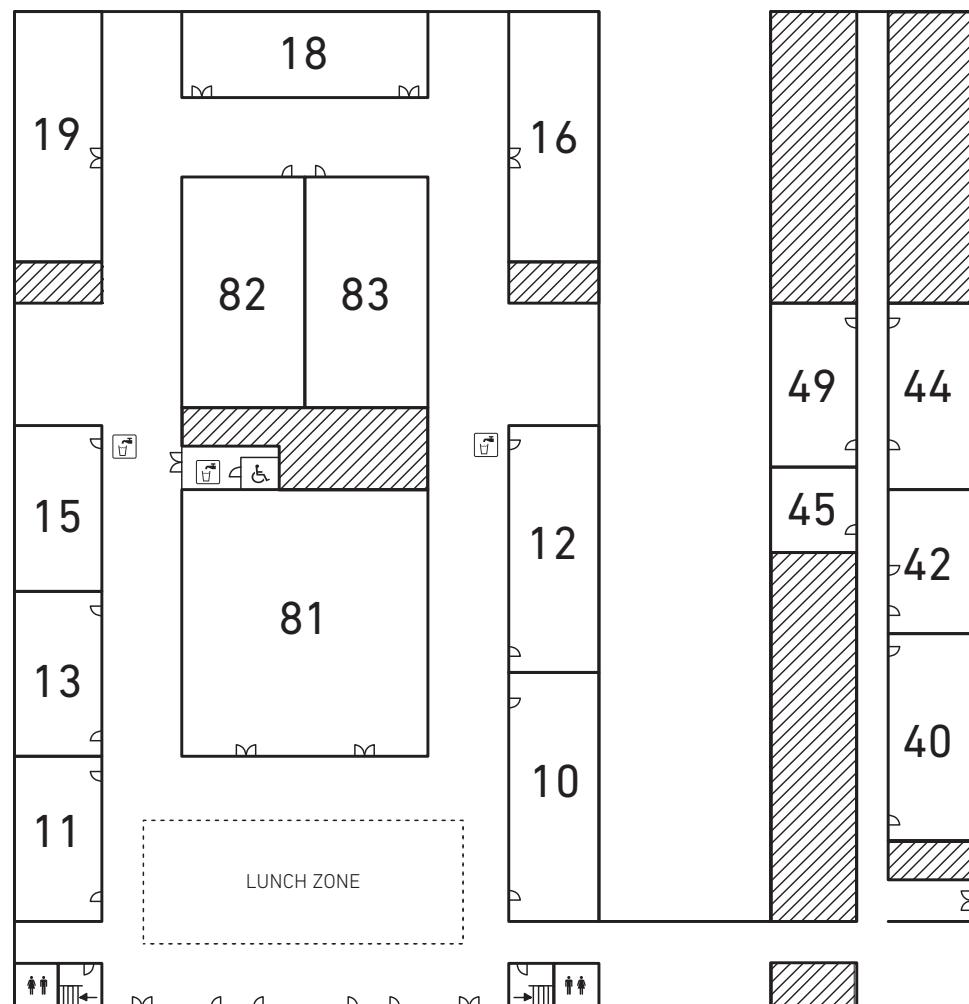
Ground floor



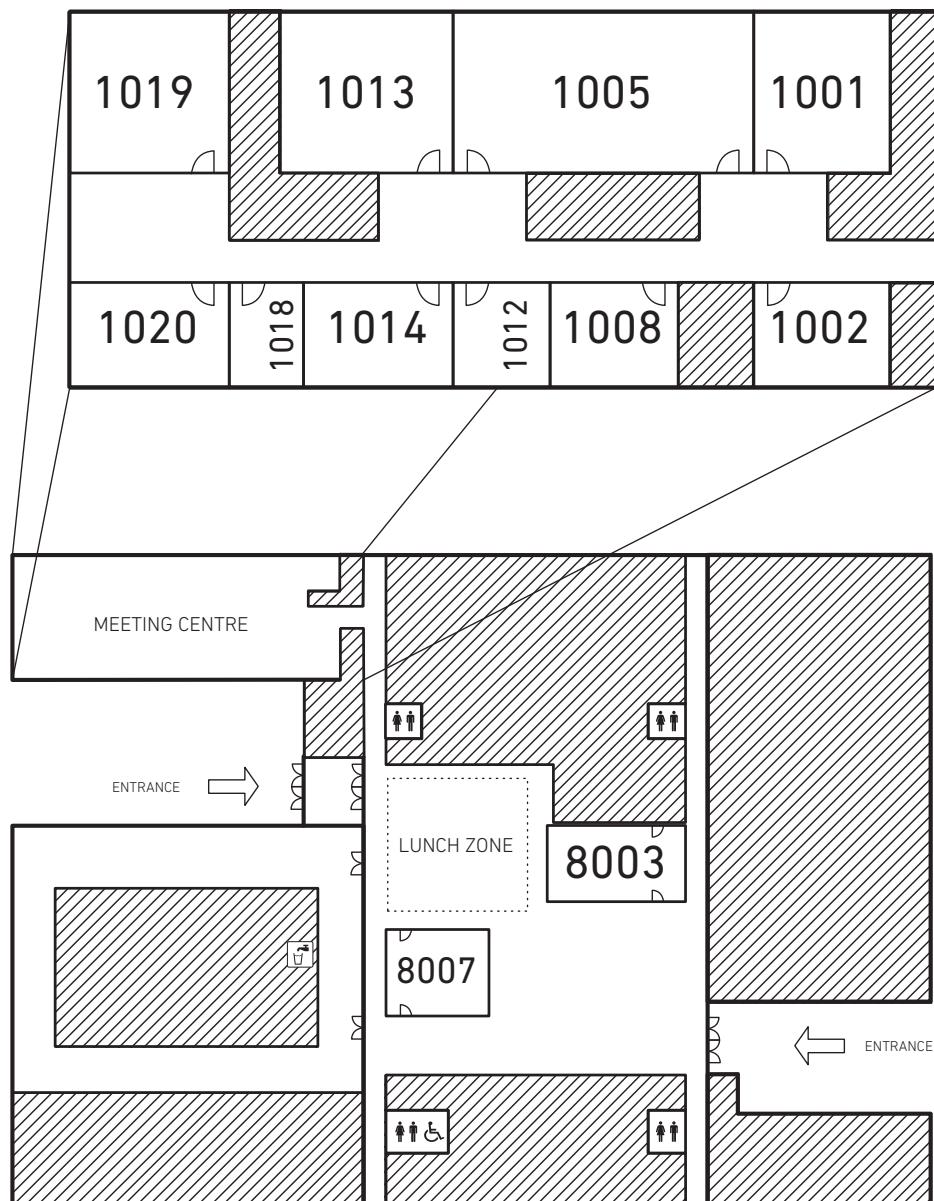
First floor



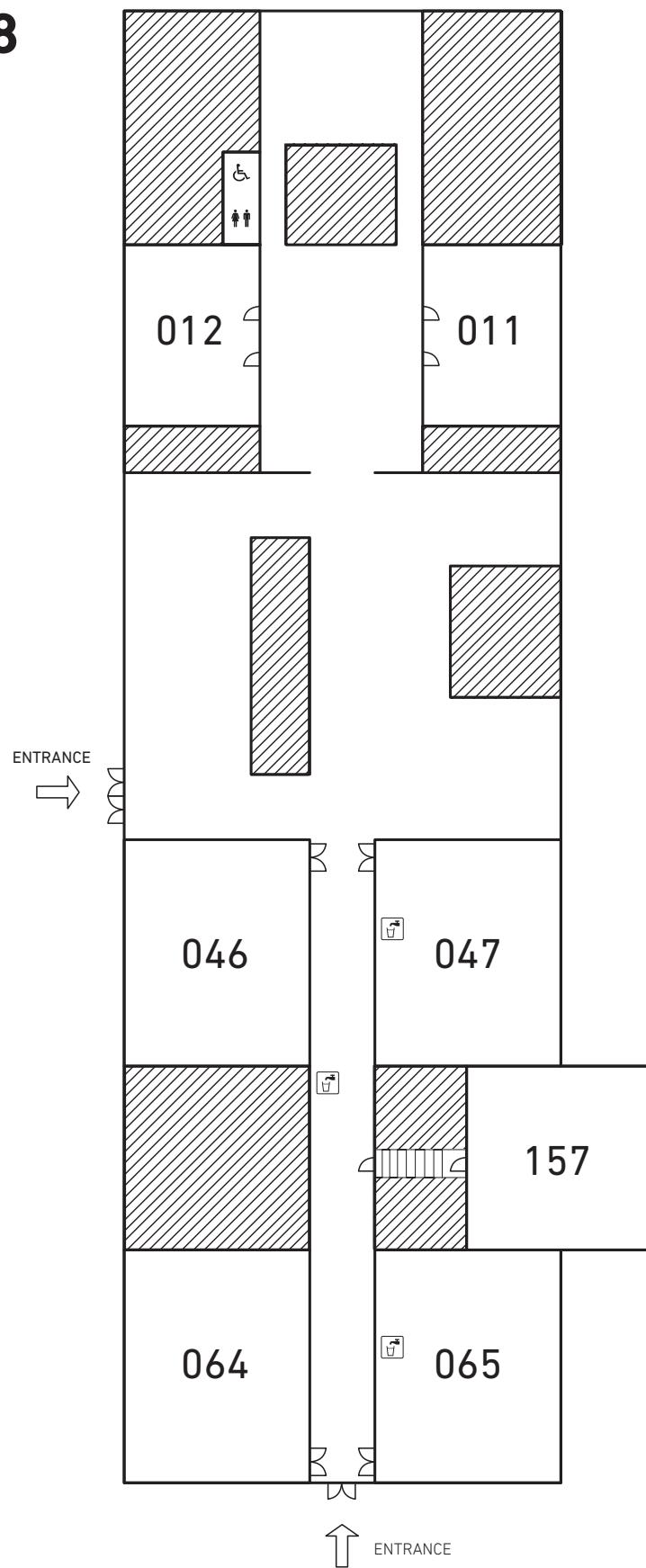
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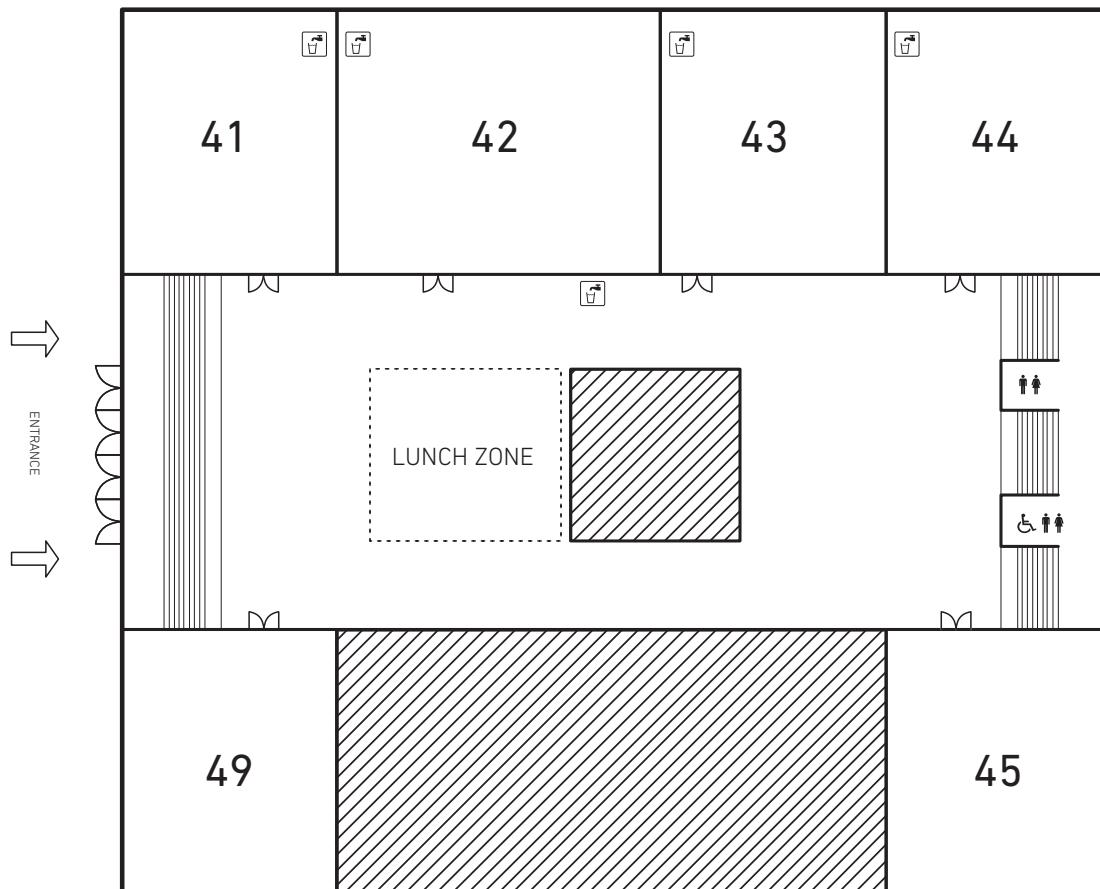
Building 202



Building 208

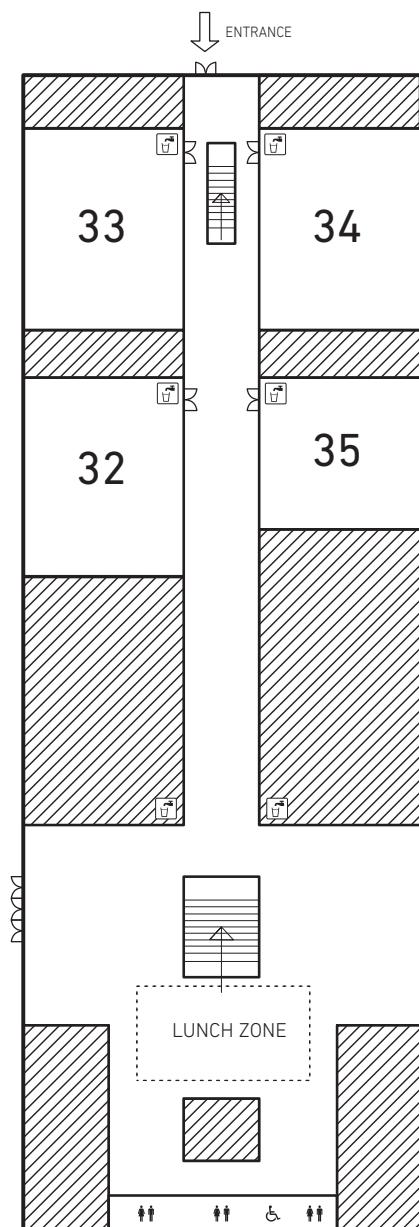


Building 303A

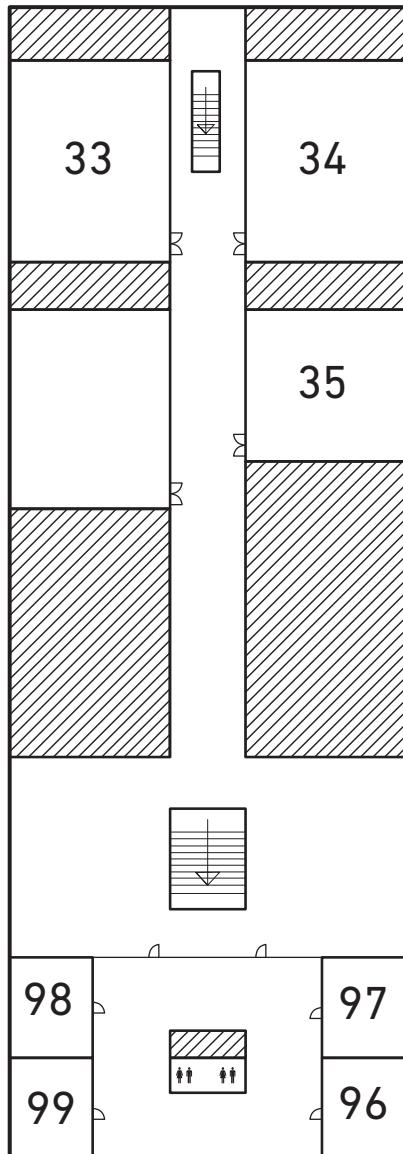


Building 306

Ground floor



First floor



Building 324





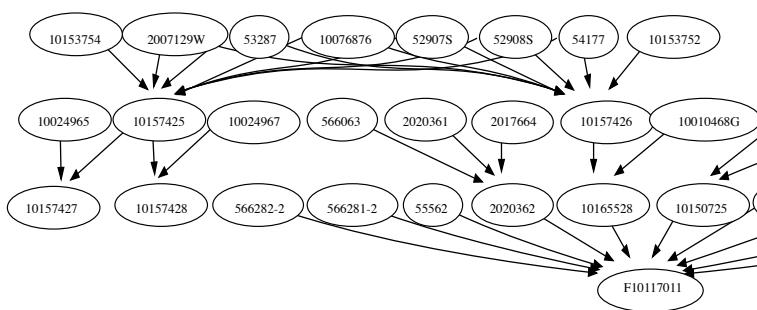
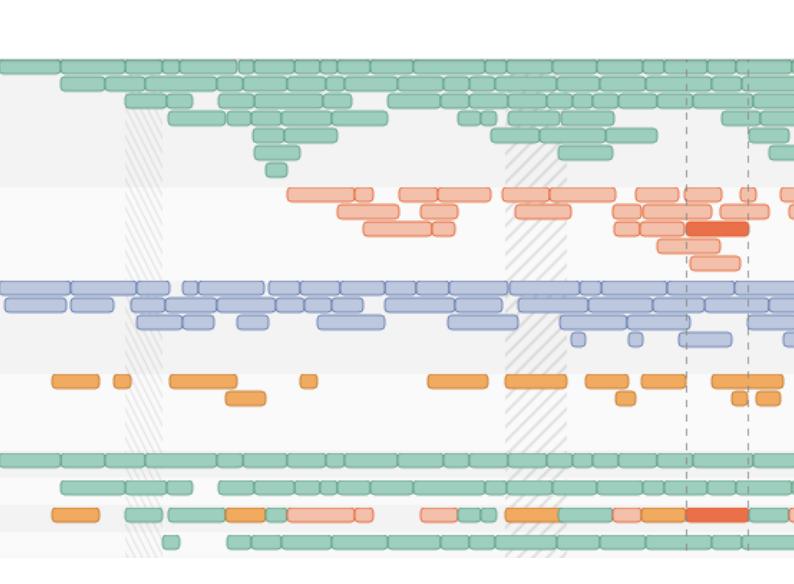
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USEFUL INFORMATION

5.1. Internet access

Eduroam Wi-Fi access is available on DTU Campus for all attendees from associated universities. Participants without access to Eduroam will be able to connect to the free Wi-Fi as follows:

- Open your Wi-Fi settings and click on available networks.
- Connect to the DTUguest network and you will be directed to the DTU guest portal.

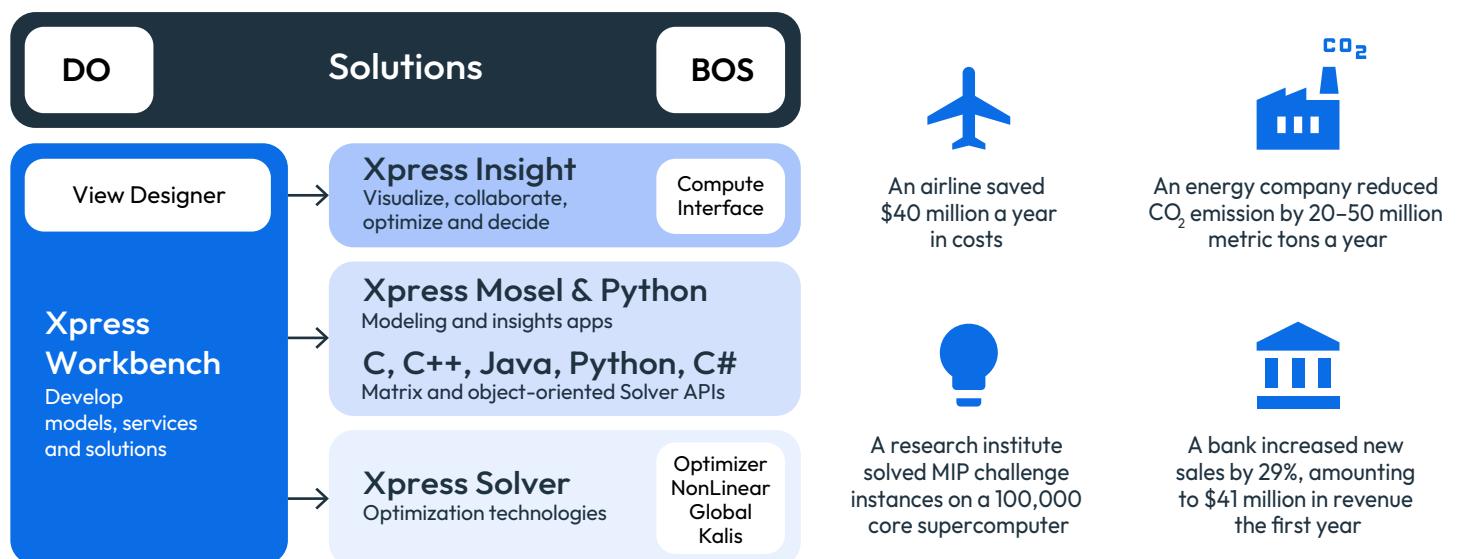
- Scroll down to the bottom of the DTU guest portal and click 'No DTU-Login? Create Guest Login' and follow the instructions.
- You will be asked to create a guest login.

NB: Each login lasts 24 hours after which you have to create a new guest login.



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5.2. Transportation

You are encouraged to purchase your personal Travel Pas prior to arrival. Read more about the Travel Pas by scanning the QR-Code

Public transportation between Copenhagen City and DTU:

- Bus line 150S or 15E from Nørreport Station.
- S-Train line A or E from Copenhagen Central, Vestepor, Nørreport or Østerport Station to Lyngby Station and change to either bus line 180, 190, 300S or 40E.



Travel pass info

Shuttle service

In addition to public transport, a shuttle service will operate between Lyngby Station to Building 101 at DTU. The shuttle busses will be marked with the conference logo. Service hours are the following:

From Lyngby St. To DTU

Date	First Departure	Last Departure
30th June	14:30	18:30
1st July	07:30	15:00
2nd July	07:30	15:00
3rd July	07:30	15:00

From DTU to Lyngby St.

Date	First Departure	Last Departure
30th June	09:00	20:30
1st July	09:00	17:30
2nd July	09:00	17:30
3rd July	09:00	20:30

NB. Bus 150S operates 24x7.



Journey planner

Plan your journey using www.rejseplanen.dk or scanning the QR-Code

5.3. Emergency phone numbers



Dial 1813 in the event of illness. The medical staff will then take decision on the further course of treatment. In Denmark it is not possible to go to the emergency room without an appointment made through 1813.



Dial 112 if you have an urgent need for either police, ambulance or fire brigade.



Dial 114 if your need is not urgent but you would like to report e.g. a robbery.



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