ADA 2024

2024 INFORMS
Advances in Decision Analysis Conference

July 10-12, 2024
Aalto University, Helsinki-Espoo, Finland

https://ada2024.aalto.fi

informs
Smarter Decisions for a Better World

DECISION ANALYSIS SOCIETY

Aalto University

The Decision Analysis Society Welcomes You to ADA 2024

Yael Grushka-Cockayne.

Yael Grushka-Cockayne's website:
https://www.darden.virginia.edu/faculty-research/directory/yael-grushka-cockayne

It has been a decade since the first Advances in Decision Analysis conference in Georgetown. We have been around the world together: Washington DC, Austin TX, Milan Italy, back to DC, and now in Finland – it has been a joy to see all the incredible Decision Analysis research continue to evolve and flourish. If you are new to the conference, the Advances in Decision Analysis (ADA) conference is a two-year focal point for our society, it is the place where our members exchange ideas and shape the scientific future of the discipline. This year, we are lucky to be hosted by an extraordinary group here at Aalto University, who have been not only pioneers in the Decision Analysis, but excellent collaborators and hosts. I am ecstatic about the scientific program, with over eighty five presentations in regular sessions, a rich poster series, three impressive keynote speakers, and PhD incubators with 12 dedicated PhD talks. We also have a special emotional panel to honor the memory of late Professor Daniel Kahneman, who passed away in March this year.

On behalf of the DAS I would like to express my gratitude to Ahti Salo, Leevi Olander, and Mary-Ann Alfthan for all the organizational work extraordinar! Without them, we really would not be able to make this event possible and I am especially thankful that they live in such a wonderfully cool and stunning location. Also, a warm thank you goes to Sasa Zorc for taking the lead with the Phd incubators, and to all the other members of our organizing committee who helped a great deal. Finally, thank you to our speakers and attendees – nothing can happen without you all showing up here.

Welcome and enjoy ADA 2024!

Yael Grushka-Cockayne
President, Decision Analysis Society, INFORMS

The Conference General Chair Welcomes You to ADA 2024

Ahti Salo.

Ahti Salo's website:
https://sal.aalto.fi/ahti

I am enormously pleased to welcome you to the 5th INFORMS Advances in Decision Analysis Conference, held in the iconic Undergraduate Centre of Aalto University which was completed 60 years ago according to the design of the renowned architect Alvar Aalto.

Named after him, Aalto University was established 2010 through the merger of the Helsinki University of Technology, Helsinki School of Economics, and the University of Art and Design in Helsinki. Thanks to recent development works, our campus has become a highly attractive and accessible venue for science and education.

Finland has a long and strong tradition in decision analysis. Last year, the Finnish Operations Research Society celebrated its 50th anniversary. The System Analysis Laboratory was founded 40 years ago by Raimo P. Hämäläinen, the recipient of the Frank P. Ramsey Medal in 2019. For well over 30 years, numerous Finnish researchers have made enduring contributions to decision analysis. Many of these contributions have involved collaborations with DAS members. They have lead to close professional relationships and valued friendships.

In UN World Happiness Report 2024, Finland was again ranked as the happiest country in the world. One reason for this is the fundamental trust in the Finnish society, which enables individuals to feel safe and relaxed. Another reason is the proximity of nature, which offers opportunities for recreation and relaxation even here on our campus.

I truly thank DAS for having trusted us at Aalto with the responsibility for organizing ADA 2024. On behalf of the entire Local Organizing Committee, I wish you an enjoyable conference with many happy moments.

I also hope that you might wish to consider coming back, be it for future conferences or longer stays!

Ahti Salo
ADA 2024 General Chair

Greeting by President Sauli Niinistö to the Participants of ADA 2024

President Sauli Niinistö.

Sauli Niinistö's website:
https://www.presidentniinisto.fi/en/

Today's world is characterized by unrest, disorder, and significant change with uncertain outcomes. This poses remarkable challenges to decision-making.

Decision-makers need to anticipate elevated threat levels driven by the man-made geopolitical context. At the same time, natural disasters and extreme weather events, the increasing effects of climate change to instability, as well as the impact of rising geopolitical tensions to our security of supply and economic well-being underline the multifaceted nature of threats that touch us all beyond the borders of any individual state.

Resolving major problems calls for decisions that have often far-reaching and uncertain future impacts. Science plays a significant role in solving the grand challenges of our time now and in the future. Adequate food supplies, sustainable energy and raw materials, mitigation of climate change, clean environment, harnessing technology and combatting serious illnesses are all issues we cannot afford to ignore. To respond to the urgent challenges of our time, we need courage, curiosity and skills to explore the world from new perspectives.

Finding solutions to complex challenges requires collaboration across scientific disciplines and borders. Intersectoral approaches are needed to transform ideas and findings into good decisions. 2024 INFORMS Advances in Decision Analysis Conference in Helsinki provides a valuable platform for scientists working in decision analysis to come together for interdisciplinary discussions, strengthen connections between practitioners, educators, and researchers, and build collectively towards a more holistic approach.

I wish you all productive discussions and creation of new contacts for the exchange of information, experience and expertise.

Sauli Niinistö
Former President of the Republic of Finland 2012–2024

1.7.2024

Conference Program

	Wednesday July 10, 2024	Thursday July 11, 2024	Friday July 12, 2024
08:30	Registration & Coffee	Registration & Coffee	Coffee
09:00	**Opening Keynote: Prof. Simon French**	**Keynote: PD Dr. Judit Lienert**	**Keynote: D.Sc. (Tech.) h.c. Kari Renko**
10:00	Break	Break	Break
10:15	**Parallel sessions**	**Parallel sessions**	**Parallel sessions**
11:45	Lunch	Lunch & poster session	Lunch
12:30	**Parallel sessions**	**Poster & parallel sessions**	**Parallel sessions**
14:00	Break	Break	**Closing session**
14:15	**Parallel sessions**	**Parallel sessions**	14:30-16:00 Guided Aalto Tour
15:45	Break	Break	
16:00	**Kahneman Panel**	**Parallel sessions**	
17:00	Group picture / Free time	Free time / Guided Aalto Tour 17:15-18:25	
	17:30 Bus transport to Get-together Finnish Sauna Night at Löyly Bar Sauna Restaurant at 18:00-21:00	**18:30 Cruise from Otaranta pier to dinner at Hanasaari Cultural Centre 22:00 Bus transport to city centre & campus**	

Scientific Program:
https://blogs.aalto.fi/ada2024/program/

Presentation instructions:
https://blogs.aalto.fi/ada2024/instructions/

Information about **Finnish Sauna Night** on Wednesday, 10 July, and the **Cruise & Dinner**, Thursday, 11 July:
https://blogs.aalto.fi/ada2024/social-events/

Keynote: Decision Analysis: Theory Meets Practice

Simon French.

Abstract

In this talk I want to reflect on how applications of risk and decision analysis need to 'bend' several aspects of their theoretical basis in developing effective and valuable guidance. Early in my career, I worked more on the theory of multi-attribute value functions, subjective probabilities and utility theory and generally I found the results sensible and satisfying. But then I began to apply the theory and things became less straightforward. The world and real decision-makers did not easily fit theoretical small worlds. In 1990 I joined the International Chernobyl Project and ran headlong into politics, stress, health issues and the concerns they bring: even the thorny question of how do you value a life. For the rest of my career, I applied decision theoretic approaches to societal decision making in many areas for risk and safety. Sometimes I worked in contexts where there was the luxury of time to think. Other times I worked on emergency preparedness and crisis response. I still found theoretical perspectives and approaches very powerful tools, but only if I used them with the proverbial 'pinch of salt'. In this talk I want to reflect back on what I have learnt in the past decades, arguing that our approach to decision analysis only becomes really helpful if we forget parts of it. Even then some of the major problems facing societies and the planet may require that we become more flexible.

Simon's Biography

Simon French is Emeritus Professor at Alliance Manchester Business School. He is now fully retired, still writing and enjoying seminar discussions, but almost in control of his diary at last.

Simon has made numerous contributions to the theory and practice of risk and decision analysis. This includes the publication of eleven books on operational research, Bayesian statistics, decision theory and analysis. In addition, Simon has nearly 200 other publications.

During his career, Simon has sought to support real decision makers and stakeholders in complex decisions in ways that are mindful of their human characteristics. He was involved in the International Chernobyl Project in 1990-1991, leading work on the factors driving the post-accident decision making. This led to many projects on nuclear emergency management over the following 30 years. He has worked across the public and private sectors, often in contexts that relate to the environment, energy, food safety and the nuclear industry. He has consulted for many regulators and organisations in the public sector: the Department of Health, the UK Food Standards Industry, the European Space Agency, Public Health England, the Medicines and Healthcare Products Regulatory Agency, and many parts of the nuclear industry.

In 2017, Simon was awarded the Ramsey Medal, the highest award of the INFORMS Decision Analysis Society for his research in and applications of risk and decision analysis. In 2022 he was also awarded the Gold Medal of the International Society for Multi-Criteria Decision Making.

Keynote: Bridging Theory and Practice When Involving Stakeholders in Public Environmental Decisions

Judit Lienert.

Environmental and other public policy decision problems are complex. They can be addressed with Multi-Criteria Decision Analysis (MCDA), ideally in participatory stakeholder processes. Reviews about applications of MCDA to specific environmental fields such as water management or nature conservation are often published in non-Operational Research (OR) journals. Many of these reviews summarizing MCDA applications by non-MCDA specialists indicate that there is insufficient integration of stakeholders in problem structuring and preference elicitation steps of MCDA, potentially increasing the risk of biases. Moreover, these reviews criticize inadequate treatment of uncertainty, using too simplistic models, and neglecting temporal or spatial aspects. In contrast, OR literature focuses on sophisticated decision models that include e.g., uncertainty, but (again) this research lacks integration of stakeholders. My talk will present some insights from literature to help address this gap between theoretical requirements and real-world decision-making. Additionally, I will share learnings from own practical environmental cases involving stakeholders with various types of methods. These include face-to-face interviews, classical decision-making workshops in smaller or larger groups, and modern online methods to involve experts or lay people. I look forward to discussing with you this work in progress about publishing high quality OR research that is useful for real-world decision-making!

Judit's Biography

PD Dr. Judit Lienert leads the cluster Decision Analysis in the Environmental Social Science Department of Eawag, the Swiss Federal Institute of Aquatic Science and Technology. Judit Lienert has more than twenty years of research experience in inter- and transdisciplinary projects and has published 57 peer-reviewed papers. Her focus is on Multi-Criteria Decision Analysis (MCDA), integrating natural, engineering, and social science data in decision models to better address environmental decision problems. This work has gained increasing attention, including three recent best paper awards by EJOR, OMEGA, and the INFORMS Decision Analysis Society.

Judit Lienert studied biology and environmental sciences at the University of Zürich, Switzerland, after a first career in nursing. She finished her PhD on habitat fragmentation of wetlands in 2001. At Eawag, until 2007 she was co-project leader of the large cross-cutting project Novaquatis on urine source separation, which won a prestigious Swiss transdisciplinary research award (td-net 2008), recognizing both interdisciplinary research integration and cooperation with non-academic partners.

Building on this research at the interface of various scientific disciplines and society, Judit Lienert focused on participatory MCDA from 2007 onwards. Application fields include sustainable urban water management, blue-green infrastructure, flood forecast and alert systems in West Africa, river rehabilitation, and sustainable agriculture. To address complex environmental decision problems, all steps of MCDA are crucial, from problem structuring over making scientific predictions to preference elicitation, and modelling. A specific interest is the behavioral analysis of decision processes and a scientifically rigorous, but practicable integration of stakeholder preferences. She recently wrote her habilitation thesis at ETH Zürich "Facts and values: Decision analysis for complex public environmental decision problems". Judit Lienert is lecturer for MCDA at ETH Zürich, and is on the management board of the EURO working group on Behavioral OR.

Keynote: A Case Study on Applying Decision Analysis in Defence Procurement

Kari Renko.

Abstract

Public procurement procedures have been studied extensively as decision-making processes. Several decision analysis approaches for them have been proposed and also applied in practice. However, tight regulatory frameworks and real-life complexities complicate the application of decision-analytic methods.

I describe one complex real-life defence procurement and show how decision analysis can contribute to the success of the procurement, even though a rigorous, “schoolbook” application of decision analysis methods was not performed.

The “HX Program” was a competitive procurement process worth 10 billion euros to replace the Finnish Air Force combat aircraft fleet. This process was challenging for numerous reasons, e.g., (i) the weapon system to be procured was very complex, and the resulting capability is crucial for national defence; (ii) objective measurement and comparison of military capabilities of the candidate systems was difficult; (iii) some of the candidates made direct commercial offers, and some offered via the US Foreign Military Sales program, (iv) the procurement program had to be executed on the planned schedule before the current aircraft fleet reaches its out of service date (v) the procurement was by euro value the largest public procurement ever in Finland, and there was a high risk that the final selection would be challenged by legal appeals.

A unique, iterative decision-making model was devised and implemented. The six year long procurement program was executed as planned.

Kari’s Biography

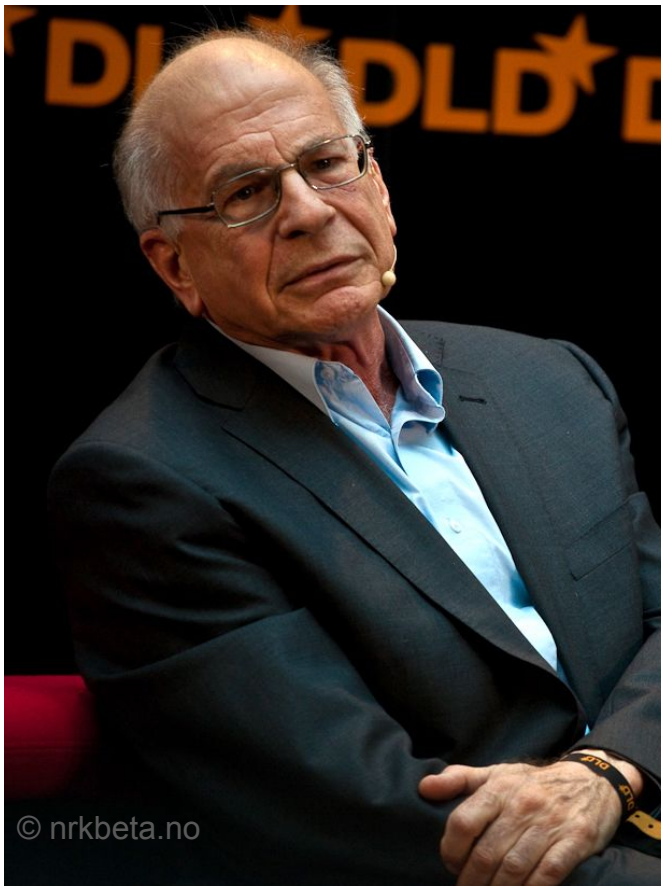
D.Sc. (Tech.) h.c. Kari Renko is an Executive Vice President for Strategic Programs and a member of the Group Management Team of defence and technology company Patria. Patria is an international provider of defence, security and aviation life cycle support services, technology solutions and pilot training. Patria employs over 3,000 professionals in Finland, Sweden, Norway, Belgium, the Netherlands, Estonia, Latvia, and Spain.

Prior to joining Patria, Kari had a long career in the Finnish Defence Forces. He retired as a Major General (Eng.) from the position of the Chief of the Finnish Defence Forces Logistics Command at the end of June 2022, being responsible for the procurement, sustainment, and support of all defence materiel and the provision of logistic services to the Defence Forces. In his position, he was also the Defence Forces’ Chief Engineer.

Kari has had a prominent career in various positions in the Finnish Defence Forces. In addition to the Logistics Command, he has held several management positions at the Air Force Materiel Command, Air Force Headquarters and Karelia Air Command and has also served as an Assistant Defence Attaché in Washington D.C. with the responsibility for defence cooperation. Kari holds a Master of Science in aeronautical engineering. He has co-authored a textbook on aircraft aerodynamics and flight mechanics.

Kari’s awards and decorations include the Cross of Liberty, 1st Class, and the Medal for Military Merits. He has been honoured with a Doctorate in Technology by Aalto University.

Kahneman Panel



Daniel Kahneman.

Daniel Kahneman's website:
https://kahneman.scholar.princeton.edu/

Daniel Kahneman, a giant of modern science, made fundamental contributions bridging two fields: psychology and economics. The Swedish Academy of Sciences awarded him the Nobel Prize in 2002 "*for having integrated insights from psychological research into economic science, especially concerning human judgment and decision-making under uncertainty*." His research with Amos Tversky and others focused on human judgment and decision-making under uncertainty. His groundbreaking work led to the development of prospect theory, a new branch of the decision sciences that explains deviations from traditional models. The 1979 paper with Amos Tversky "Prospect Theory: An Analysis of Decision under Risk," Econometrica, remains the most-cited paper ever published in any economic journal. Daniel's work has inspired many researchers and motivated many studies in our community. He was close to the Decision Analysis Society, and was awarded the Ramsey Medal for his outstanding contributions to Decision Analysis in 2006, together with Amos Tversky.

During this special panel, Manel Baucells, David Budescu, L. Robin Keller, Don Kleinmuntz, and Peter Wakker will help us understand Daniel Kahneman's early (1970s) impact on Decision Analysis work at the time, how it shaped the early work in our field, what was it about that work with Tversky that was so significant, and what is the message we can bring to the future generations of Decision Analysis Scientists.

Panel moderators:
Yael Grushka-Cockayne
Emanuele Borgonovo

Scientific Program Committee

Ali E. Abbas
University of Southern California, Viterbi School of Engineering, USA

Erin Baker
University of Massachusetts Amherst, Wind Energy Center, USA

Manel Baucells
University of Virginia, Darden School of Business, USA

Emanuele Borgonovo
Bocconi University, Department of Decision Sciences, Italy

Jutta Geldermann
University of Duisburg-Essen, Faculty of Engineering, Germany

Yael Grushka-Cockayne
University of Virginia, Darden School of Business, USA

Victor Jose
Georgetown University, McDonough School of Business, USA

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Jeffrey Keisler
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George Washington University, School of Business, USA

Aron Larsson
Stockholm University, Department of Computer and Systems Sciences, Sweden

Juuso Liesiö
Aalto University, School of Business, Finland

Jason R.W. Merrick
Virginia Commonwealth University, Department of Supply Chain Management & Analytics, USA

Gilberto Montibeller
Loughborough University, Loughborough Business School, UK

Alec Morton
University of Strathclyde, Management Science, UK

Vincent Mousseau
Paris-Saclay University, Mathematics and Computer Science, France

Eva Regnier
Naval Postgraduate School, Graduate School of Defense Management, USA

Ahti Salo
Aalto University, School of Science, Finland

James E. Smith
Dartmouth College, Tuck School of Business, USA

David Rios Insua
The Institute of Mathematical Sciences, Spain

Ilia Tsetlin
INSEAD, Decision Sciences, France

Steve Yoo
University College London, School of Management, UK

Sasa Zorc
University of Virginia, Darden School of Business, USA

PhD Incubator Discussants

Aurelien Baillon
Emlyon Business School

Yael Grushka-Cockayne
University of Virginia, Darden School of Business

Juuso Liesiö
Aalto University

Asa Palley
University of Indiana, Kelley School of Business

Ville Satopaa
INSEAD

Jack Soll
Duke University, Fuqua School of Business

Ilia Tsetlin
INSEAD

Jun Zhuang
University of Buffalo

Spyros Zoumpoulis
INSEAD

Local Organizing Committee

Ahti Salo
General Chair, Aalto School of Science

Mary-Ann Alfthan
Conference Producer, Aalto School of Science

Eeva Vilkkumaa
Aalto School of Business

Fabricio Oliveira
Aalto School of Science

Juuso Liesiö
Aalto School of Business

Leevi Olander
Aalto School of Science

Useful Information

- The **public transport system** in Helsinki-Espoo is of high quality.
  You can access the route planner at https://hsl.fi/en. Tickets are available with the app at https://www.hsl.fi/en/tickets-and-fares/hsl-app.
- **Internet access** on Aalto campus is provided by two WIFI networks: **aalto open** and **eduroam**.
- Visitors from outside the European Union may want to purchase prepaid SIM cards with internet access for **mobile communication**.
- The **general emergency number** is **112**.
- **Finnish tap water** is tasty and safe to drink.

ADA 2024 On-Call Service

In case you have urgent questions about ADA 2024 during the conference, please call:

Mary-Ann Alfthan: +358 50 305 4767

Our volunteers at the registration desk will also be happy to help you.

Helsinki - Espoo Map

A Aalto University Campus

H Helsinki City Center

P Airport

There is a good metro connection between central Helsinki (Kamppi metro station) and Aalto campus (Aalto University station).

Aalto University Campus Map

1 Undergraduate Centre

B Boat cruise start

69 Metro station & shopping center

56 Radisson Blu Hotel, Espoo

KATUOSOITTEET
Gatuadresser / Street addresses

Ekonominaukio 1	68	B1
Kemistintie 1	11	C2
Konemiehentie 1	72	B1
Konemiehentie 2	30	B1
Konemiehentie 3	18	B1
Konemiehentie 4	10	B1
Maarintie 6	32	B1
Maarintie 8	37	B1
Metallimiehenkuja 2	59	C2
Metallimiehenkuja 4	27	C2
Otakaari 1	1	B2
Otakaari I 5	74	A3
Otakaari 2*	71	B2
Otakaari 3	3	A2
Otakaari 4	8	B2
Otakaari 5	4	A2
Otakaari 7	29	A3
Otakaari 11	38	B2
Otakaari 12	42	A2
Otakaari 22	40	B3
Otakaari 24	19	B3
Otakaari 27	20	B2
Otaniementie 9	15	B2
Otaniementie 12	69	B2
Otaniementie 14	67	B2
Otaranta 2	56	C3
Otaranta 4	41	B3
Otaranta 6	28	B3
Puumiehenkuja 2	9	B2
Puumiehenkuja 3	7	B2
Puumiehenkuja 5	6	A2
Rakentajanaukio 4	2	B2
Sähkömiehentie 3	73	A2
Sähkömiehentie 4	5	A2
Sähkömiehentie 5	17	A2
Tekniikantie 3	14	C2
Tietotie 1 A	16	B1
Tietotie 1 E	34	B1
Tietotie 3	36	B1
Vuorimiehentie 1	13	C2
Vuorimiehentie 2	12	C2

A Blanc Ostoskeskus *Köpcentret / Shopping Centre*	20	B2
A Bloc Kauppakeskus / *Köpcentret Shopping Centre*	69	B2
A Grid Startup-hubi *Startup-hubb / Startup hub*	4	A2
Aalto Bioproduct Centre	13	C2
Aalto Inn	41	B3
Aalto Studios	29	A3
Aalto-yliopisto Junior *Aalto University Junior*	11	C2
Aalto-yliopistokiinteistöt Oy Aalto University Campus & Real Estate	2	B2
Arkkitehtuuripaja *Architecture Workshop*	27	C2
AVP Aalto Ventures Program	6	A2
AYY Aalto-yliopiston ylioppilaskunta / *AUS Aalto-universitetets studentkår / AYY Aalto University Student Union*	38	B2
Circular Raw Materials Hub	12	C2
Design Factory	6	A2
Dipoli Päärakennus *Huvudbyggnad / Main Building*	19	B3
Harald Herlin -oppimiskeskus *Harald Herlin-lärcentret Harald Herlin Learning Centre*	15	B2
Haukilahden lukio *Gymnasiet / High school*	14	C2
Ice Tank	16	B1
Kandidaattikeskus *Kandidatcentret Undergraduate Centre*	1	B2
Kauppakorkeakoulu *School of Business*	68	B1
Kemian tekniikan korkeakoulu *Högskolan för kemiteknik School of Chemical Engineering*	11	C2
Kide	72	B1
Kirjaamo / *Registratur / Registry*	1	B2
Kirjasto / *Bibliotek / Library*	15	B2
Konetekniikan talo (K1)	8	B2
KY	10	B1
Maarintalo / *Marhuset Maari Building*	17	A2
Magneettitalo / *Magnethuset Magnetic Building*	74	A3
Marsio*	71	B2
Meritekniikka *Marinteknik / Marine Technology*	16	B1
Mediaspace	15	B2
Micronova	36	B1
Nanotalo	9	B2
Otaparkki	73	A2
OIH Open Innovation House	32	B1
Rantasauna	45	A3
Saha KY's Festival Hall	18	B1
Servin Mökki	44	A3
Space 21	12	C2
Startup Sauna	6	A2
Terveysteknologian talo Health Technology House	3	A2
TF Teknologföreningen	40	B3
Tietotekniikan talo *T-huset / CS Building*	30	B1
Vesitalo / *Vattenbyggnaden Water Building*	34	B1
Väre Taiteiden ja suunnittelun korkeakoulu / *Högskolan för konst, design och arkitektur / School of Arts, Design and Architecture*	67	B2

RAVINTOLAT
Restauranger / Restaurants

Arvo	68	B1
Eat Poke HKI	69	B2
Factory Otaniemi	4	A2
Fat Lizard	34	B1
Konnichiwa	69	B2
Kot. Otaniemi	69	B2
MAU-KAS	57	C2
Metso	19	B3
NOVA MAU-KAS	36	B1
Ranta	56	C3
Silinteri	1	B2
Tasteat	12	C2
Who The xxxx is Alice	69	B2
X-burger	63	C2

OPISKELIJARAVINTOLAT
Studentrest. / Student restaurants

Alvari	1	B2
Food & Co A Bloc	69	B2
Kipsari	67	B2
Kvarkki	3	A2
Reima	19	B3
Studio Kipsari	29	A3
Subway	30	B1
Tietotekniikantalo	30	B1
TUAS	37	B1
Täffä	40	B3

DOWNLOAD AALTO SPACE FOR THE LATEST CAMPUS MAP

KAHVILAT
Kaféer / Cafés

Aino	1	B2
Baked by Eli	15	B2
Cafetoria Aalto	67	B2
Café Factory	4	A2
Café Reima	19	B3
Espresso House	69	B2
Kylteri	68	B1
Taproom d20	20	B2

MUUT PALVELUT
Andra tjänster / Other services

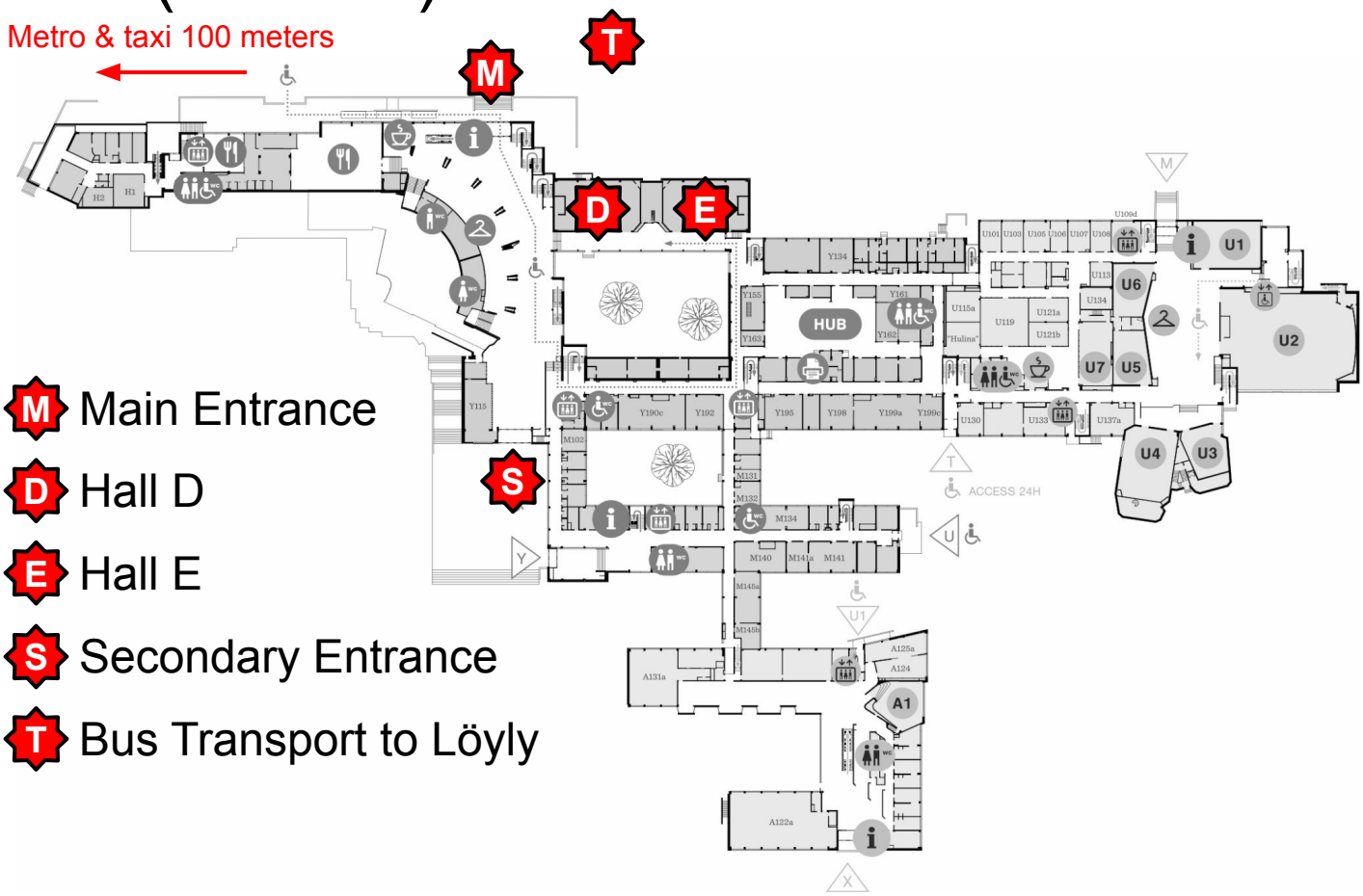
Aalto Shop	67	B2
Aaltopahvi	15	B2
A Bloc Damask	69	B2
CAP-Autokoulu	69	B2
Attitude Helsinki	69	B2
AYY-asuntotoimisto *AUS Bostadskontoret / AYY Housing Office*	38	B2
Espoon Hieronta	69	B2
Kuntokeskus Liikku	69	B2
Laude Sauna & Terrace	4	A2
Otahalli	28	B3
Parturi-kampaamo Shortcut Aalto	20	B2
Radisson Blu Hotel	56	C3
Tapiolan Juhlapuku	20	B2
Terveystalo Otaniemi	20	B2
Unigrafia Noutopiste *Avhämtningsplats / Pick-up point*	1	B2
Unisport	28	B3
YTHS / SHVS / FSHS	42	A2

Apteekki / *Apotek / Pharmacy*	B2
Campus Membership coworking-hubi / *Coworking-hubb / Coworking hub*	A2-3, B2, C2
Liikuntapalvelut *Idrottstjänster / Sports*	B2, B3
Pakettiautomaatti / *Paketautomat / Parcel pickup point*	B2
Pankkiautomaatti / *Bankautomat / ATM*	B2, C3
Postilaatikko / *Brevlåda / Letter Box*	B2
Pyörähuoltopiste / *Cykelservicepunkt / Bike maintenance point*	B2, C3
Päivittäistavarakauppa / *Mataffär / Grocery store*	B2
Taksiasema / *Taxistation / Taxi*	B2

* Rakennustyömaa / Byggplats / Under construction

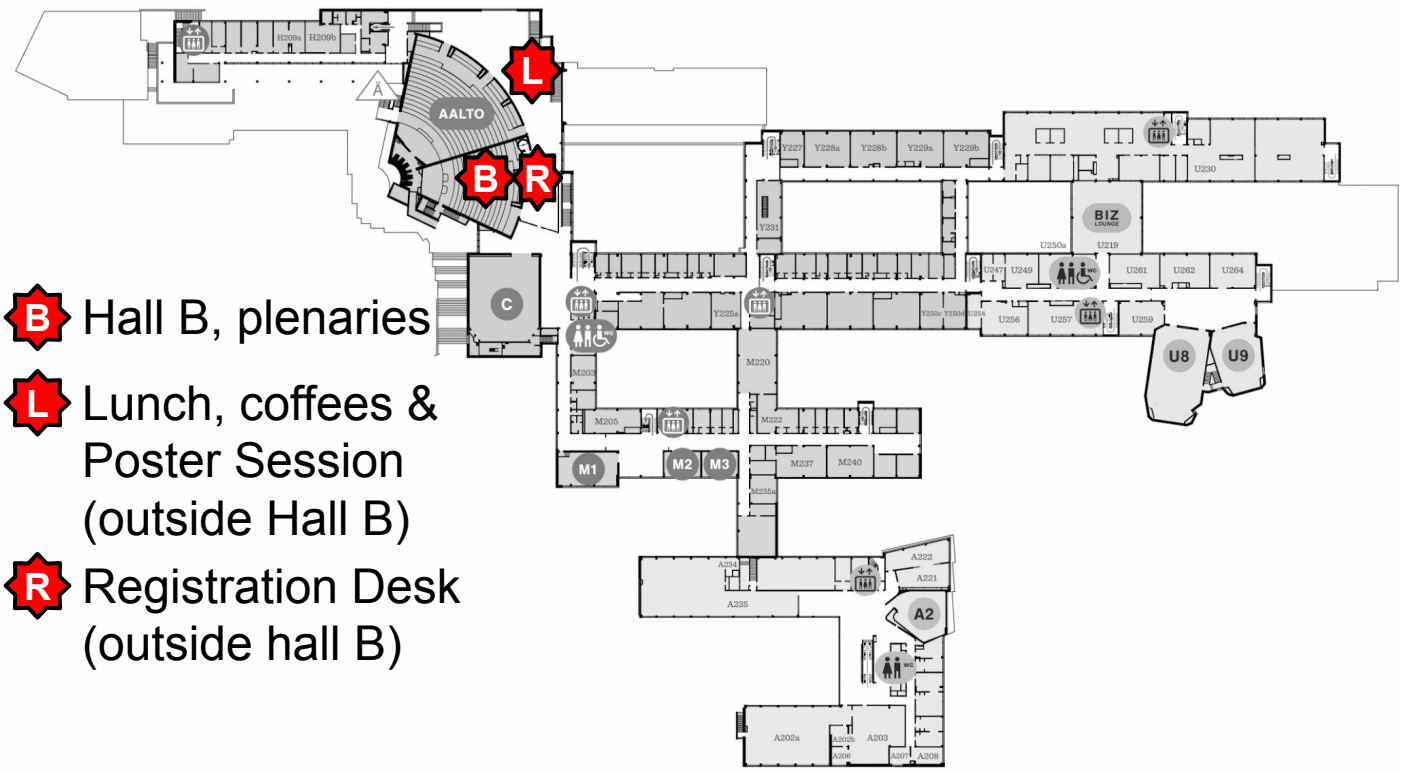
Undergraduate Centre Map

First (Ground) Floor



- M Main Entrance
- D Hall D
- E Hall E
- S Secondary Entrance
- T Bus Transport to Löyly

Second Floor



- B Hall B, plenaries
- L Lunch, coffees & Poster Session (outside Hall B)
- R Registration Desk (outside hall B)