



Welcome to the

***Grand Opening of NTNU's Logistics 4.0 Laboratory and
"Creating value from digitalization in logistics" seminar***

NTNU, Trondheim, 25 April 2019

We are happy that you have joined us for the Grand Opening of the Logistics 4.0 laboratory – where you will get to touch, test, try and be surprised by innovative solutions!

NTNU is establishing Norway's first logistics laboratory that merges digital technologies with traditional production and logistics systems – enabling researchers, practitioners, engineers, pioneers, students, and other enthusiasts to come together and collaborate on common ground. The official opening is accompanied by a SMARTLOG seminar on "Creating value from digitalization in logistics".

Highlights of the day:

- Grand Opening ceremony
- SMARTLOG seminar with presentations on state of the art within digitalization of logistics operations
- Discuss your own experiences, challenges, and knowledge with international academic and industrial experts
- Demonstration of advanced technologies for logistics operations, such as motion capture system, indoor-positioning technologies, augmented and immersive reality and mobile robots

Program

- 9:00 - 10:00 ● Registration and coffee
- 10:00 - 10:30 ● **Welcome**
- 10:30 - 11:30 ● **Logistics and digitalization in Norway**
Jan Ola Strandhagen, Professor, NTNU
Fabio Sgarbossa, Professor, NTNU
- 11:30 - 11:45 ● **A glimpse from the industry: wheel.me – the world's first autonomous wheel**
Atle Timenes, CEO, wheel.me
- 11:45 - 12:00 ● Coffee break
- 12:00 - 13:00 ● **Warehouse robotization; where are we and where are we going?**
René de Koster, Professor, Rotterdam School of Management, Erasmus University
- 13:00 - 13:20 ● **Immersive Technologies for Learning and Training**
Ekaterina Prasolova-Førland, Professor, NTNU
- 13:20 - 13:30 ● **Opening ceremony of Logistics 4.0 Laboratory**
- 13:30 - 14:15 ● Lunch
- 14:15 - 15:30 ● **Parallel sessions: demonstrators 1-5**
- Demo 1: Indoor Positioning System and Smart Workstations
 - Demo 2: Mobile Robots and 3D Mapping
 - Demo 3: Smart Objects – Wheel.me
 - Demo 4: Motion Capture Systems and Immersive Reality
 - Demo 5: Augmented and Virtual Reality
- 15:30 - 16:00 ● **Collaboration opportunities including interactive discussions**
- 16:00 ● **Closure**

About SMARTLOG

SMARTLOG is a Norwegian network for manufacturing, logistics, and supply chain management. SMARTLOG's national competence network is an arena for exchange of research, knowledge and experience between industry and academia. The network regularly organises seminars and initiates research projects on topics of interest to the community. SMARTLOG is hosted by the Production Management group at NTNU and supported by the Research Council of Norway.

Registration

Participation is free of charge and lunch is included.

Organising committee

Fabio Sgarbossa, Jan Ola Strandhagen, Anita Romsdal, Aili Biriita Bertnum and Giuseppe Fragapane

Practical information



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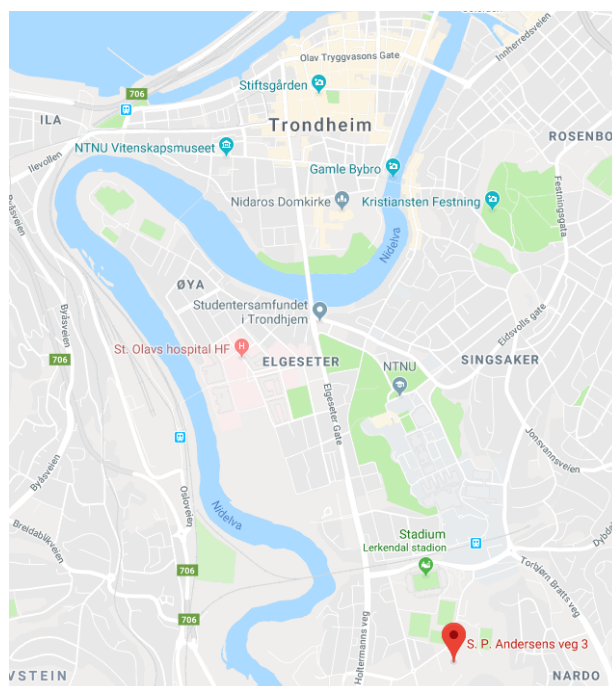
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Speakers



Jan Ola Strandhagen is Professor and leader of the Production Management research group at the Department of Mechanical and Industrial Engineering at NTNU. He is author and co-author of more than 100 publications in international journals and research conferences. His research interests are production planning and control, production and logistics management. He has extensive experience in managing national and international industrial research projects. He was Centre Director for a large-scale research centre NORMAN from 2010 to 2014. He has also received several awards for outstanding efforts in logistics.



Fabio Sgarbossa is Professor of Industrial Logistics at the Department of Mechanical and Industrial Engineering at NTNU. He is responsible of the new Logistics 4.0 laboratory at NTNU. He is involved in several European and National Projects. He is author and co-author of about 90 publications in international journals and international research conferences. He has been member of Organizing and Scientific Committees and Session Chairman of several International Conferences and Workshops. He has been guest editor of several Special Issues in relevant International Journals, such as Computers and Industrial Engineering and Omega.



René de Koster is Professor of Logistics and Operations Management, and chair of the Department of Technology and Operations Management, Rotterdam School of Management, Erasmus University. His research interests are warehousing, material handling, container terminal operations, behavioural operations and sustainable logistics. He is the author and editor of eight books and over 200 papers. He is in the editorial boards of eight academic journals, a fellow of two research schools, chairman of three Dutch logistics awards, chairman of Stichting Logistica, founder of the Material Handling Forum and member of several scientific boards.



Ekaterina Praslova-Førland is Professor at the Department of Education and Lifelong Learning at NTNU, and head of Innovative Immersive Technologies for Learning research group and lab. Her research interests are virtual, mixed and augmented reality for learning and training, 3D scientific visualizations and simulations, collaborative work and learning, and educational technologies. She is author and co-author of about 100 scientific papers, book chapters and conference proceedings. She has received several awards for her extensive work in science and education.



Atle Timenes is CEO and co-founder of wheel.me, a Norwegian IoT company and H2020 SME Instrument Seal of Excellence holder that was established in Oslo 2013. He is a successful serial entrepreneur with a significant track record in strategy formulation and growth initiatives. Previous ventures include founding and expanding the IT-firm CRM AS to be a leading player in the Nordics in the late '90s, before being sold to c.rel/Kistefos. He holds a MSc. in Management from the Norwegian Business School. He also has significant project management experience from projects at the national and EU-level.