

WASP FACULTY AND INDUSTRY DAYS

MAY 13-14, 2019, Gothenburg

13 MAY

9:30-10:15 Registration and coffee

SESSION I CHAIR: ANDERS YNNERMAN

Welcome, news and first keynote

- 10:15-10:45 Welcome and WASP News, **Lars Nielsen**, WASP Director and **Sara Mazur**, Vice Chair of the WASP Board
- 10:45-11:00 WASP Graduate School Update, **Fredrik Heintz**
- 11:00-12:00 KEYNOTE: Re-inventing Healthcare with Artificial Intelligence, **Marc Hamilton**, Nvidia
- 12:00-12:30 WARA News, **Gunnar Bark**, **Jesper Tordenlid**, **Carl Lindberg**, **Christoph Reichenbach**

12:30-13:30 Lunch

13:30-13:45 Study visit to IAV (Berlin), Volkswagen (Wolfsburg) and Hannover Messe by the Automated Transport System Cluster, **Bo Wahlberg**, KTH

SESSION II CHAIR: KARL-ERIK ÅRZÉN

WASP-NTU collaboration

- 13:45-13:55 Overview WASP/NTU collaboration, **Anders Ynnerman**, LiU
- 13:55-14:30 NTU project presentations
- Visualization for Understanding and Developing Machine Learning, **Anders Ynnerman**, LiU
 - Adversarial Machine Learning in Big Data Era, **Christos Dimitrakakis**, Chalmers
 - Deep Reinforcement Learning of Driving Using Virtual Paths, **Michael Felsberg**, LiU
 - Scalable Multi-Robot Sensor Fusion, Localization, Navigation, and Control, **Dimos Dimarogonas**, KTH
 - Co-evolutionary Reinforcement Learning for Multi-Agent Systems, **Mikael Johansson**, KTH
- 14:30-14:45 Scientific presentation: Theory for Scalable Control, **Anders Rantzer**, LU

SESSION III CHAIR: DANICA KRAGIC

AI initiatives in Sweden and EU

- 14:45-15:00 AI Innovation of Sweden, **Martin Svensson**, AI Innovation of Sweden
- 15:00-15:15 CHAIR, AI Competence, **Ivica Crnkovic**, Chalmers
- 15:15-15:45** *Coffee*
- 15:45-16:05 Humane AI/CLAIRE, High level expert group, **Virginia Dignum**, UmU and **Fredrik Heintz**, LiU
- 16:05-16:20 AI4EU, **Alessandro Saffiotti**, ÖrU
- 16:20-16:35 ELLIS, **Thomas Schön**, UU
- 16:35-17:00 Panel discussion led by **Danica Kragic**, KTH
- Informal and Optional Cluster meetings
- 18.30** *Dinner*
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14 MAY

SESSION IV CHAIR: JOHAN HÅSTAD

WASP-Humanities and Society (WASP-HS)

- 08:45-09:00 Presentation of WASP-HS, **Virginia Dignum**, UmU

Keynote and Industrial perspectives

- 09:00-09:30 Software Engineering for AI, **Jan Bosch**, Chalmers
- 09:30-10:30 KEYNOTE: Topological adventures in machine learning, **Kathryn Hess**, EPFL

10:30-11:00 *Coffee*

SESSION V CHAIR: IVICA CRNKOVIC

Industrial perspectives cont.

- 11:00-11:20 From Vacuum Tubes to Software defined sensors, **Magnus Sundberg**, Saab
- 11:20-11:40 Human Habitation Beyond Planet Earth Enabled Through Highly Reliable Autonomous Systems, **Markus Borsand**, RUAG
- 11:40-12:00 From Machine to Learning in 5G Enabled Manufacturing, **Ola Angelsmark**, Ericsson Research

New WASP faculty

- 12:00-12:15 When 99.999999888...% correct is not enough – From Microprocessor Design to Machine Learning, **Carl-Johan Seger**, Chalmers
- 12:15-12:30 Energy-based models and deep learning, **Christopher Zach**, Chalmers

New Initiatives in WASP Graduate School

- 12:30-12:45 Presentation of WASP PhD Council, **Georgia Tsaloli**, Chalmers
- 12:45-13:00 Report from seminar about Industrial PhD studies, **Lars Nielsen**, WASP Director

13:00-15:00 *Lunch / coffee / free discussions*