

# The potential of AI for robotics innovations

3 March 2022 | Online symposium

Distinguished event in the series of the  
50th Anniversary of Canadian-German research collaboration



## AGENDA

Berlin Toronto

- 16:00 10:00 Opening and welcome notes**  
Dr. Walter Mattauch | Federal Ministry for Economic Affairs and Climate Action, Germany  
Dr. Jennifer Decker | National Research Council Canada  
Christina Arend | German Canadian Concourse
- 16:20 10:20 Keynote presentation  
**“Digital transformation in the logistics sector”**  
Prof. Michael ten Hompel | Fraunhofer Institute for Material Flow and Logistics, Germany
- 16:40 10:40 Application area 1: **“3D Mapping and environmental perception”**  
**“Artificial intelligence based indoor cartography”** (15 min.)  
Dr. Dennis Schütthe | STILL GmbH, Germany  
**“How sensor fusion, perception and localisation solutions are used to enable automated driving”** (10 min.)  
Pierre Olivier | LeddarTech, Quebec, Canada  
**“Semantic segmentation for indoor environments: What level of fidelity is necessary?”** (10 min.)  
Prof. Jonathan Kelly | University of Toronto, STARS Lab, Canada  
**Discussion** (15 min.)
- 17:30 11:30 Break**

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- 17:35 11:35 Keynote presentation  
**"Canadian AI strategy"**  
Dr. Joel Martin | National Research Council Canada
- 17:55 11:55 Application area 2: **"Federated learning for industrial robots"**
- "Federated learning for robot picking"** (15 min.)  
Maximilian Gilles | Karlsruhe Institute of Technology, Germany
- "Meaning of AI for robotics in automation"** (10 min.)  
Christian Tarragona | Festo SE & Co. KG, Germany
- "AI in healthcare robotics"** (10 min.)  
Prof. Alexander Wong | University of Waterloo, Canada
- Discussion** (15 min.)
- 18:45 12:45 Keynote presentation  
**"How to tap funding for new international collaborative projects?"**  
Andrew Bauder | National Research Council, Ontario, Canada
- 19:00 13:00 Closing remarks**  
Dr. Walter Mattauch  
Dr. Jennifer Decker

Moderated by Johannes Linzbach, Festo SE & Co. KG, Germany

For more information, visit the event website:

<https://projekttraeger.dlr.de/de/infothek/veranstaltungen/potential-ai-robotics-innovations>

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