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## Forskning

Vänligen se beskrivningen i den engelska versionen av den här sidan.

## Kvalifikationer

Datavetenskap, Docent, Lunds Tekniska Högskola  
Tilldelningsdatum: 2019 juni 4

Datavetenskap, Tekn dr, Human-Robot Interaction and Mapping with a Service Robot: Human Augmented Mapping, KTH  
Royal Institute of Technology  
Tilldelningsdatum: 2009 jan. 27

## Anställning

### Prefekt, Projektledare

Institutionen för datavetenskap  
Lunds universitet  
Lund, Sverige  
2009 maj 1 → present

### Doktorand

KTH Royal Institute of Technology  
Stockholm SE-100 44, Sverige  
2004 jan. 1 → 2009 jan. 31

## Senaste forskningsoutput

### Conflict Simulation for Shared Autonomy in Autonomous Driving

Reitmann, S., Mihaylova, T., Topp, E. A. & Kyrki, V., 2024 mars 11, *HRI 2024 Companion - Companion of the 2024 ACM/IEEE International Conference on Human-Robot Interaction*. Association for Computing Machinery (ACM), s. 882-887 6 s. (ACM/IEEE International Conference on Human-Robot Interaction).

### **Ah, Alright, Okay! Communicating Understanding in Conversational Product Search**

Papenmeier, A. & Topp, E. A., 2023 juli, *Proceedings of the 5th International Conference on Conversational User Interfaces: CUI '23*. Association for Computing Machinery (ACM), s. 1-5 5 s. 49

### **Chaos to Control: Human Assisted Scene Inspection**

Jena, A. & Topp, E. A., 2023 mars 13, *HRI 2023 - Companion of the ACM/IEEE International Conference on Human-Robot Interaction*. IEEE Computer Society, s. 491-494 4 s. (ACM/IEEE International Conference on Human-Robot Interaction).

### **A Shared Pose Regression Network for Pose Estimation of Objects from RGB Images**

Hein Bengtson, S., Åström, H., Moeslund, T. B., Topp, E. A. & Krueger, V., 2022 okt., *IEEE/RSJ International Conference on Signal Image Technology & Internet Based Systems (SITIS)*. IEEE - Institute of Electrical and Electronics Engineers Inc., 8 s.

### **Variable Impedance Skill Learning for Contact-Rich Manipulation**

Yang, Q., Dürr, A., Topp, E. A., Stork, J. & Stoyanov, T., 2022 juni 30, I: *IEEE Robotics and Automation Letters*. 7, 3, s. 8391-8398 8 s.

### **WARA-PS: A Research Arena for Public Safety Demonstrations and Autonomous Collaborative Rescue Robotics Experimentation**

Andersson, O., Doherty, P., Lager, M., Lindh, J.-O., Persson, L., Topp, E. A., Tordenlid, J. & Wahlberg, B., 2021 nov., I: *Autonomous Intelligent Systems*. 1, 9.

### **Pose Estimation from RGB Images of Highly Symmetric Objects using a Novel Multi-Pose Loss and Differential Rendering**

Hein Bengtson, S., Åström, H., Moeslund, T. B., Topp, E. A. & Krueger, V., 2021 sep., *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. 2021 uppl. IEEE - Institute of Electrical and Electronics Engineers Inc.

### **Realeasy: Real-Time capable Simulation to Reality Domain Adaptation**

Dürr, A., Neric, L., Krueger, V. & Topp, E. A., 2021, *2021 IEEE 17th International Conference on Automation Science and Engineering (CASE)*. IEEE - Institute of Electrical and Electronics Engineers Inc., s. 2009-2016 8 s.

### **VR Teleoperation to support a GPS-free Positioning System in a Marine Environment**

Lager, M., Topp, E. A. & Malec, J., 2020 dec. 15, I: *International Journal on Marine Navigation and Safety of Sea Transportation*. 14, 4, s. 789-798 10 s.

### **Robust Terrain-Aided Navigation through Sensor Fusion**

Lager, M., Topp, E. A. & Malec, J., 2020 juli 6, *23rd International Conference on Information Fusion Virtual Conference*. IEEE - Institute of Electrical and Electronics Engineers Inc., 8 s.

## **Aktiviteter**

### **NAC Member meeting 2023 (NAC week)**

Wisbrant, J. (organisatör), Åström, K. (ordförande), Gustafsson, O. (talare), Topp, E. A. (Roll ej angiven), Warrant, E. (talare), Gullberg, M. (Roll ej angiven) & Johansson, B. (Roll ej angiven)  
2023 okt. 25

### **HRI research at RSS & RobotLab LTH: When robots need skills and "autonomous" systems need support**

Topp, E. A. (Talare)  
2023 sep. 1

### **ACM/IEEE International Conference on Human-Robot Interaction, 2023**

Topp, E. A. (organisatör)  
2023 jan. → 2023 mars

**IEEE / ACM Conference on Human Robot Interaction**

Topp, E. A. (organisatör)  
2022 aug. → 2023 apr.

**COMPUTE Research School Steering Group**

Topp, E. A. (medlem)  
2021 juli → ...

**ACM/IEEE Conference on Human-Robot Interaction (HRI), 2020**

Topp, E. A. (organisatör)  
2020 mars 23 → 2020 mars 26

**WASP Graduate School Management group**

Topp, E. A. (medlem)  
2020 jan. → ...

**ACM/IEEE Conference on Human Robot Interaction (HRI), 2019**

Topp, E. A. (organisatör)  
2019 mars 11 → 2019 mars 14

**WASP-AI Graduate School Management Group**

Topp, E. A. (medlem)  
2019 jan. → ...

**Science and Innovation Talks: Cognitive Robotics**

Johansson, B. (Inbjuden talare) & Topp, E. A. (Inbjuden talare)  
2018 dec. 4

**Artificiell Intelligens är faktiskt bra!**

Topp, E. A. (Inbjuden talare)  
2018 dec. 3

**Skills for Industrial Robotic Assembly: Representation, Acquisition, Reuse and Adaptation**

Topp, E. A. (Inbjuden talare)  
2018 okt. 5

**AI for Multimodal Human Robot Interaction Workshop within the Federated AI Meeting 2018 in Stockholm**

Topp, E. A. (organisatör), Hiatt, L. M. (organisatör), Jokinen, K. (organisatör) & Bailly, G. (organisatör)  
2018 juli 14 → 2018 juli 15

**IdeenLab 4.0**

Topp, E. A. (granskare)  
2018 juni → 2019 feb.

**AAAI Fall Symposium Series 2017**

Topp, E. A. (ordförande) & Hiatt, L. M. (ordförande)  
2017 nov. 9 → 2017 nov. 11

**Robotics @ Lund University - Helping Robots to understand (a bit) of our world**

Topp, E. A. (Inbjuden talare)  
2017 feb. 2

**Panel debate on Semantic Computing and Robotic Computing**

Topp, E. A. (Talare), D'Auria, D. (Talare) & Ostrowski, D. (Talare)  
2017 jan. 31

**Intl' Conference on Human Agent Interaction**

Topp, E. A. (medlem av programkommitté)  
2017

**Robotics@Lund University**

Topp, E. A. (organisatör)  
2015 dec. 1

**IEEE Robotics and Automation Society, Sweden Chapter**

Topp, E. A. (medlem)  
2014 mars → ...