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Robotik och Semantiska System
Institutionen för datavetenskap
ELLIIT: the Linköping-Lund initiative on IT and mobile communication
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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, Sverige
2004 jan. 1 → 2009 jan. 31

Senaste forskningsoutput

Towards intent-aware human-robot teaming: a platform for search-and-rescue operations
Prem Maben, R., Jena, A., Olofsson, B., Reitmann, S., Malec, J., Woltjer, R. & Topp, E. A., 2026 sep. 25, *Multi-agent systems : 23rd European Conference, EUMAS 2026, Malmö, Sweden, September 23-25, 2026, Proceedings.* Springer Nature, s. 695-700 (Lecture Notes in Computer Science ; vol. 16829).

Beep and show, don't tell: multimodal feedback strategies for driver-automation coordination in critical driving situations
Reitmann, S., Mihaylova, T., Kritharoulas, D., Peltola, E., Topp, E. A. & Kyrki, V., 2026 aug., I: Computers. 15, 8, 27 s., 516.

Getting a Grip: Learning Precise Robot-To-Human Handovers with Hand Pose Conditioning
Ertürk, E., Stenmark, M. & Topp, E. A., 2026, *2026 IEEE 35th International Conference on Robot and Human Interactive Communication (RO-MAN).* IEEE Press, s. 1712-1718

Framework for assessing situational awareness in Beyond Visual Line of Sight UAV operations
Maben, R. P., Jena, A., Reitmann, S. & Topp, E. A., 2025, *HRI 2025 - Proceedings of the 2025 ACM/IEEE International Conference on Human-Robot Interaction.* IEEE Computer Society, s. 1473-1477 5 s. (ACM/IEEE International Conference on Human-Robot Interaction).

Injecting conflict situations in autonomous driving simulation using CARLA
Mihaylova, T., Reitmann, S., Topp, E. A. & Kyrki, V., 2025, *HRI '25: Proceedings of the 2025 ACM/IEEE International Conference on Human-Robot Interaction.* Association for Computing Machinery (ACM), 5 s.

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).

Towards understanding the role of humans in collaborative tasks
Jena, A. & Topp, E. A., 2024, (Unpublished) *Open Review.* 7 s.

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.

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 InteractionWorkshop 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 → …