Kasper A. R. Grøntved, Ph.D. Student

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🌐 https://blog.grontved.dk

Employment History

2022 – now	🔖	**PhD student,** SDU UAS Center, The University of Southern Denmark.
2020 – 2022	🔖	**Systems Engineer,** A^2I Systems A/S.
2018 – 2020	🔖	**Student Programmer,** A^2I Systems A/S.

Education

2022 – now	🔖	**Ph.D., University of Southern Denmark** High Energy Magic. Thesis title: *Cooperative Control of Multirobot Systems in Real-World Applications*
2018 – 2022	🔖	**M.Sc. Advanced Robotic Systems, University of Southern Denmark** Thesis title: *Multi-Agent Decentralised Coordination using CNRL for Industrial Applications.*
2015 – 2018	🔖	**B.Sc. Robotic Systems, University of Southern Denmark** Thesis title: *Semantic segmentation using a deep neural network for pose estimation of a rigid object.*

Research Publications

Journal Articles

1 M.-T. O. Hoang, K. A. R. Grøntved, N. van Berkel, M. B. Skov, A. L. Christensen, and T. Merritt, "Drone swarms to support search and rescue operations: Opportunities and challenges," *Cultural Robotics: Social Robots and Their Emergent Cultural Ecologies*, pp. 163–176, 2023.

Conference Proceedings

1 K. A. R. Grøntved, U. P. Schultz, and A. L. Christensen, "Decentralized multi-uav trajectory task allocation in search and rescue applications," in *21st International Conference on Advanced Robotics' Robots in Unstructured Environments*, IEEE, 2023.

2 A. L. Christensen, K. A. R. Grøntved, M.-T. O. Hoang, *et al.*, "The herd project: Human-multi-robot interaction in search & rescue and in farming," in *Adjunct Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems*, 2022, pp. 1–4.

3 A. Cumani, A. Guiducci, P. Grattoni, G. Pettiti, and F. Pollastri, "High accuracy localization of calibration points for dimensional measurements by image processing techniques," in *Fifth International Conference on Advanced Robotics' Robots in Unstructured Environments*, IEEE, 1991, pp. 1761–1765.

Skills

Languages	🔖	Strong reading, writing and speaking competencies in English and Danish.
Coding	🔖	C++, Python, Java, SQL, LaTeX, ROS, FreeRTOS, PyTorch
Misc.	🔖	Academic research, Unix systems, Docker LaTeX typesetting and publishing.