

Personal CV

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Associate Professor
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SDU Embodied Systems for Robotics and Learning
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Day of birth: 3. Januar 1984
Nationality: Danish
Family: Married to Dr. Med. Dorte Larsen, 2 children, Agnes and Johan.

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Education

2013: Ph.D. in Robotic Systems at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2011: M.Sc. in Robot Systems Engineering at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2008: B.Sc. of Science in Computer Systems Engineering at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2003: Technical Student, HTX, Odense

Employment

2018– current: Associate Professor at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2014 – 2018: Assistant Professor at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2013 - 2013: Scientific Research Assistant at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2009 - 2013: Phd student, at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2007 - 2009: Student assistant in the Adaptronics group, at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

2008 - 2009: Teacher and Concept developer at the “Robot Sommer Camp” in 2008 and 2009, organized by “RoboDays” in Odense, Denmark.

2006 - 2011: Co-ordinator, developer and teacher in the “LEGO-Lab” at the Faculty of Engineering, University of Southern Denmark, Odense, Denmark

2006-2011: Teaching assistant at the Maersk Mc-Kinney Moller Institute, Faculty of Engineering, University of Southern Denmark, Odense, Denmark.

Research Interests

- Embodied Artificial intelligence - Understanding how the morphology shape the behaviors
- Biorobotics
- Embedded electronics - Analog/Digital systems, Micro controllers, FPGA

- Modular Robots / Modular design
- Construction kit
- Robot design/construction

Contribution to Research Projects

- Locomorph (2009-2013, FP7 - FET Proactive): To apply the concept of morphology and morphosis to achieve efficient and robust robotic locomotion and movements, in particular, with increased self-stabilization, energy efficiency, maneuverability, and adaptivity to unknown environment.
- PLAN4Act (2017-2021, Horizon2020 - FET Proactive): Predictive Neural Information for Proactive Actions: From Monkey Brain to Smart House Control.
- DLife (2017-2020, Human Frontier Science Program): A dung beetle's life: how miniature creatures perform extraordinary feats with limited resources
- EFFICACY (2017-2019, SDU Light House Project within "Welfare Innovation"): An effective colorectal cancer-screening program based on novel dual-mode wireless endoscopic capsules
- PANaMa (2015 - 2020, Interreg project): Perspektiver på arbejdsmarkedet med naturvidenskab og matematik (PANaMa).
- LabMat (2014 - 2017, Projekt, region syddanmark): Laboratorium for matematikundervisning

Organization, management and professional experience

Current	Co-administrate "Embodied AI & Neurorobotics Lab" at SDU
Current	Administrare "Embedded teaching lab" at SDU
2018-pres:	Supervision of Ph.D. students
2012-pres	Supervision of Bachelor's and Master's projects
2011-2012	Member of the "PhD Board" at SDU (1 year as deputy chairman)
2015-pres	Co-founder of "Teknologiskolen" in Odense (Private Non-profit organization)
2002-pres	Continuously involved in various private boards, both as board member and as chairman
2018-pres:	Co-founder and Co-CEO of "Teknologihuset IVS"

Awards

"Innovation Award 2012 – For practical innovation in the field of robotics", by Emerald

Qualifications

- Experience in embedded system development with FPGA and micro controllers.
- Highly skilled developer of mechatronic systems.
- Solid experience in programming with: C, Java, C#, VB6, Matlab, VHDL, Python
- Experienced user and developer for both Windows and Linux platforms.
- In-depth knowledge in both modern and classical artificial intelligence.
- Highly skilled developer of robotic systems that combine electronics, mechatronics, artificial intelligence and inspiration from biology to make use of the symbiosis that emerge between these fields/technologies.
- Advanced user of 3D printers and CAD software.
- Experience in international scientific collaboration

Publications

- Journal papers: 5
- Conference papers (peer-reviewed): 13

- Abstracts: 3

- Other: 1

Teaching and Supervising

Supervising or co-supervising

- Ph.D. students: 4

- *Bachelors*: 13

- *Masters*: 13

- *Individual Study Activity*: 17

- *International guests*: 4

Courses taught: 5 (*total of 13 runs*)

Courses as instructor: 5 (total of 16 runs)

Teknologiskolen: 6 classes

Others (summer schools, etc.): 2