

## Embodied Artificial Intelligence Workshop

**When:** May 11<sup>th</sup> 2015

**Where:** IT-University of Copenhagen, **Room 3A07**, Rued Langgaardsvej 7, 2300 Copenhagen S

### Program

10.00 Greeting by Kasper Støy, with coffee and snacks.

### Evolution & Control

- 10.15 Poramate Manoonpong "Neural control, memory, and learning for complex behaviors of biomechanical walking machines"
- 10.35 Rodrigo Moreno Garcia "Evolving Modular Robot Controllers for Structured Environments"
- 10.55 Danish Shaikh "Neural Predictive Control for Goal-directed Learning in Acoustic Navigation"
- 11.15 Sebastian Risi "Bio-inspired, Mixed-Initiative Design of Machine Bodies, Brains and Scalable Multi-Robot Systems"

*11.35 – 12.40 Lunch*

### Embodiment

- 12.40 David Johan Christensen "Interactive Embodied AI at DTU - Center for Playware"
- 13.10 Silvia Tolu "Human Brain Project and Embodied AI"
- 13.40 Jørgen Larsen (Assistant prof. SDU) "Fun with embodiment"
- 14.00 Leon Bonde Larsen "SpringyBot - An underactuated robot."

*14.20 – 14.50 Coffee break and Demo session*

### Industrial Robotics

- 14.50 Ulrik Pagh Schultz "Reversibility and Energy-efficient Manipulation"
- 15.10 Sorin Adam "Safety in Mobile Robots Based on Autopoietic Separation of Safety and Functionality"
- 15.20 Tomas Kulvicius "Development of Closed-loop Learning Systems: From Animals to Robots"

*15.30 – 16.00 Snack break and Demo session*

- 16.00 Andres Faina "Robots, boats and shipyards: two practical applications and some steps towards introducing modular robots"
- 16.20 Farzad Nejatimoharrami "EvoBot: A liquid-handling robot to automatize and optimize experiments based on real-time feedback"
- 16.50 Frank Veenstra "Evolving locomotion in a simulated quadruped".
- 17.10 Kasper Støy "Flora-robotica: background and preliminary ideas"
- 17.30 Round-off

18.30 Dinner @ The Italian  
Vester Voldgade 25  
1552 København V

**List of participants**

Kasper Støy (Associate prof. ITU)  
Sebastian Risi (Assistant prof. ITU)  
Andres Faina (PostDoc ITU)  
Peter Eklund (Full Prof. ITU)  
Farzad Nejatimoharrami (PhD ITU)  
Frank Veenstra (PhD ITU)  
Rodrigo Moreno Garcia (Guest PhD ITU)

David Johan Christensen (Associate prof. DTU)  
Lidia Furno (PhD DTU)  
Silvia Tolu (PostDoc DTU)

Sorin Adam (PhD SDU)  
Poramate Manoonpong (Associate prof. SDU)  
Tomas Kulvicius (assistant prof. SDU)  
Ulrik Pagh Schultz (Associate prof. SDU)  
Jørgen Larsen (Assistant prof. SDU)  
Danish Shaikh (Postdoc SDU)  
Leon Bonde Larsen (PhD SDU)