

UiO : **Department of Informatics**
University of Oslo

Kyrre Glette

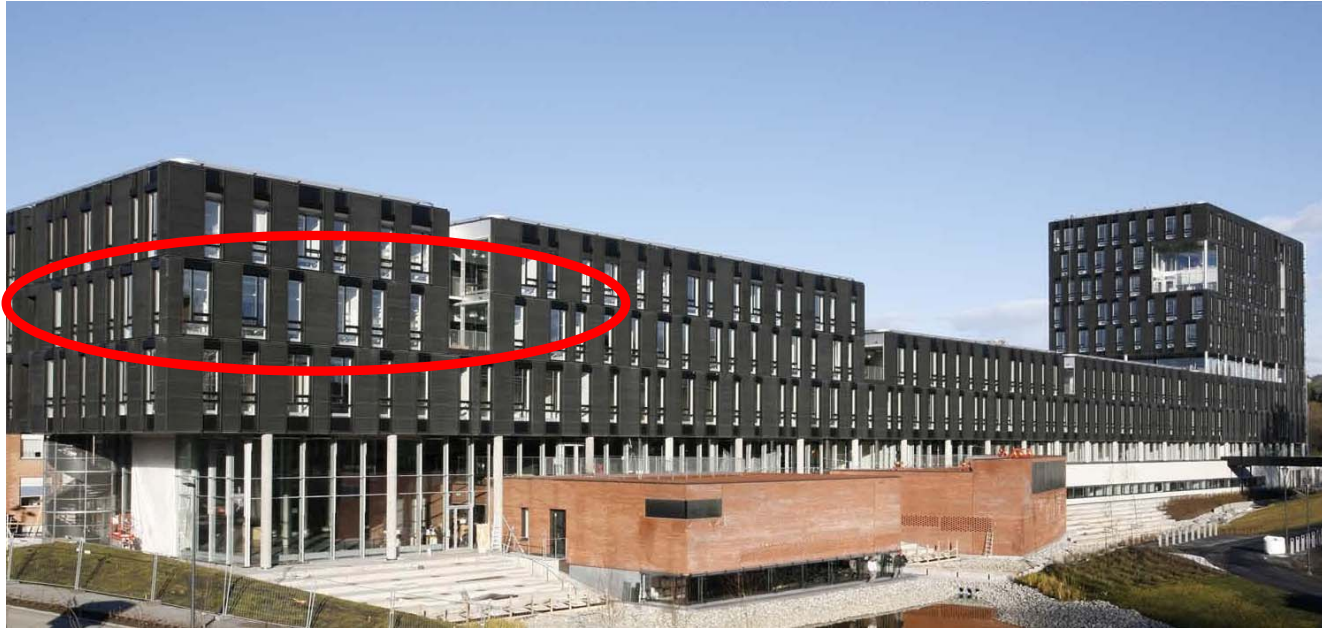
Robotics and Intelligent Systems group, Department. of Informatics

RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion

A taste of ROBIN research related to AI & ML



Robotics and Intelligent Systems research group (ROBIN)



- 4 scientific faculty
- 1 lecturer
- 1 engineer
- 5 adjuncts from research & industry
- 3 postdocs (incl RITMO)
- 7 phds (incl RITMO)



RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion



- Musicology
- Psychology
- Informatics

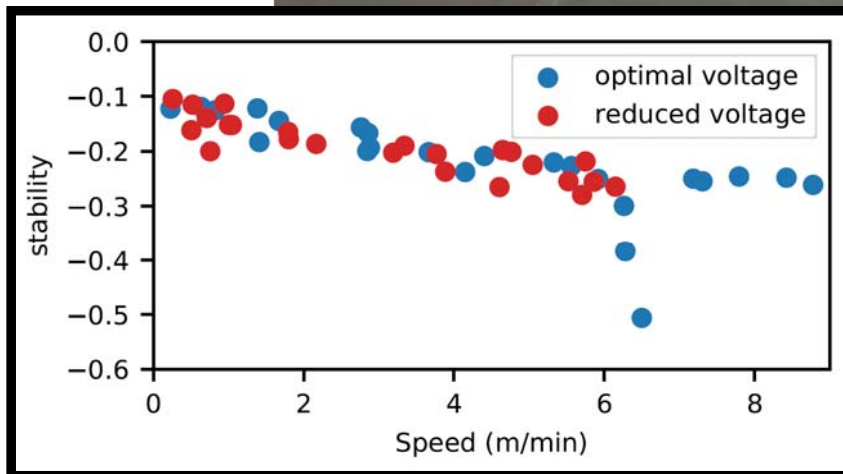
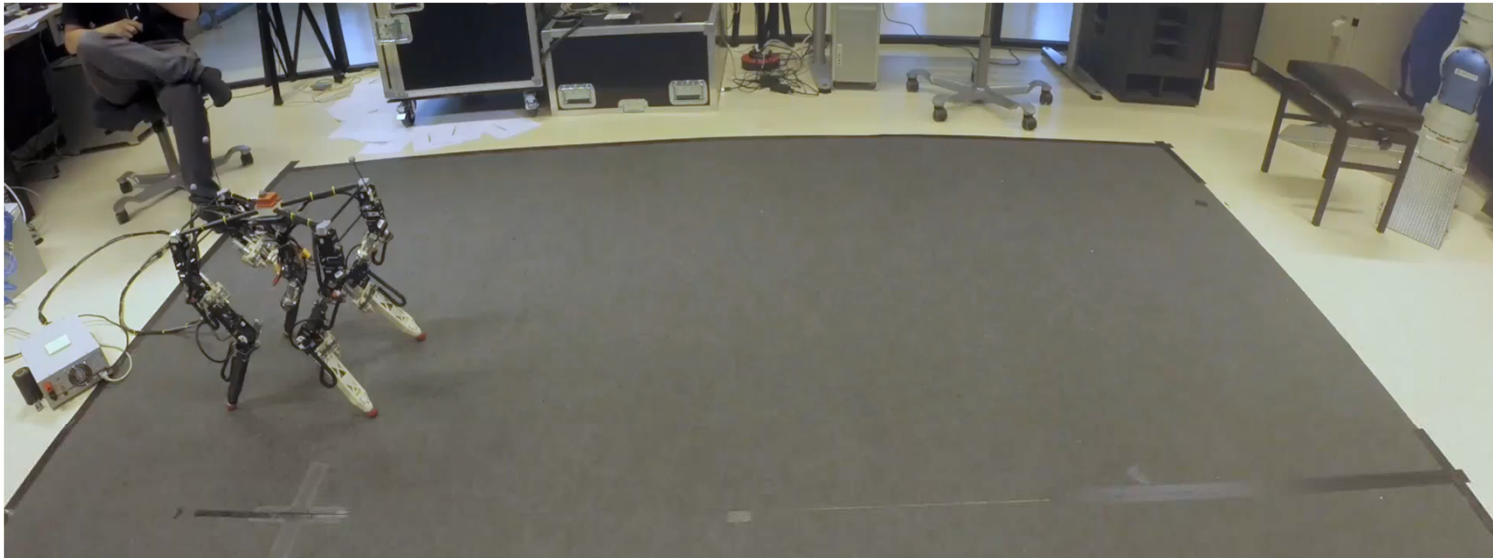


Can we find body-behavior approaches exploiting real-world characteristics?

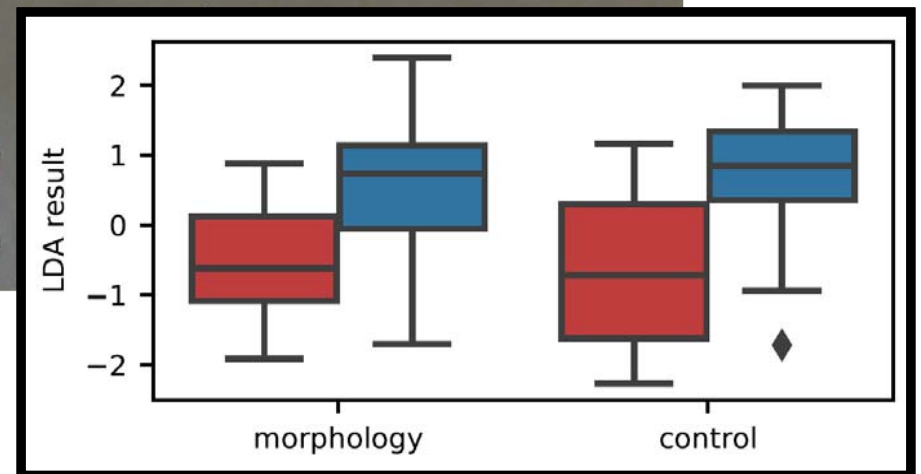
- Self-reconfiguring robot platform
 - Reconfiguration mechanism too slow to be actively used in gait
- Allows testing multiple morphological combinations using the same robot
- Real world evolution of morphology and control



Real world morphology and control evolution

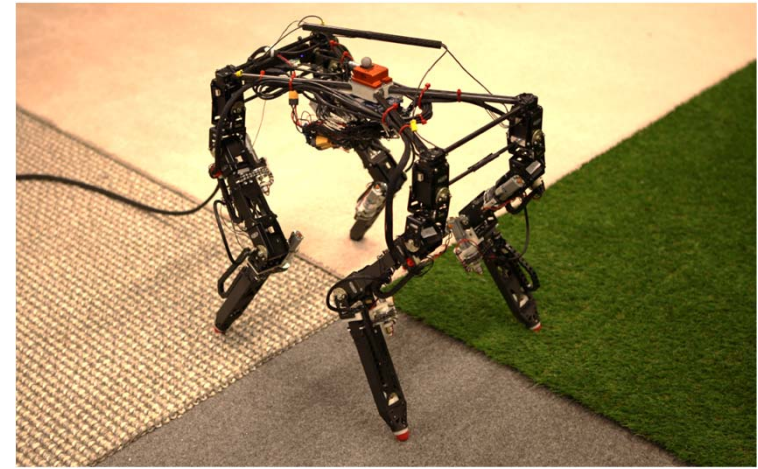
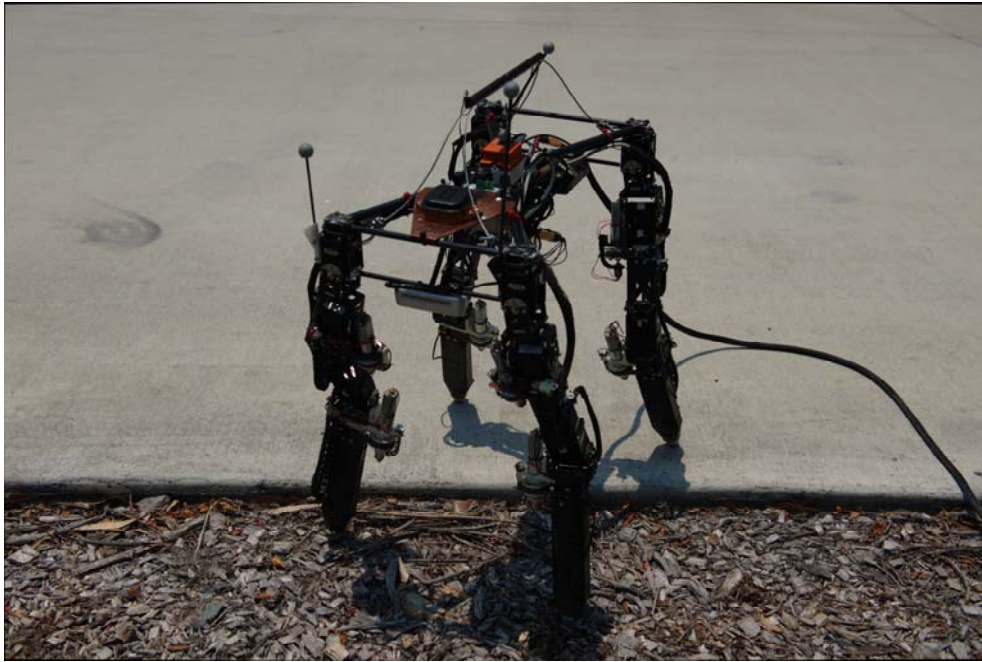


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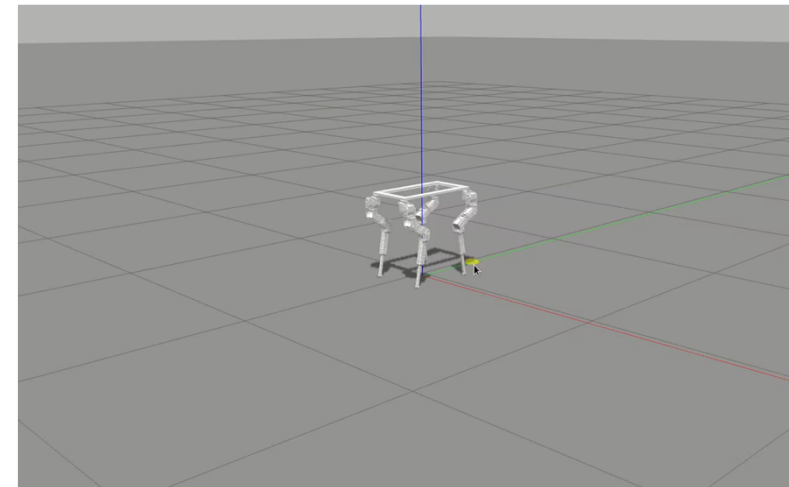
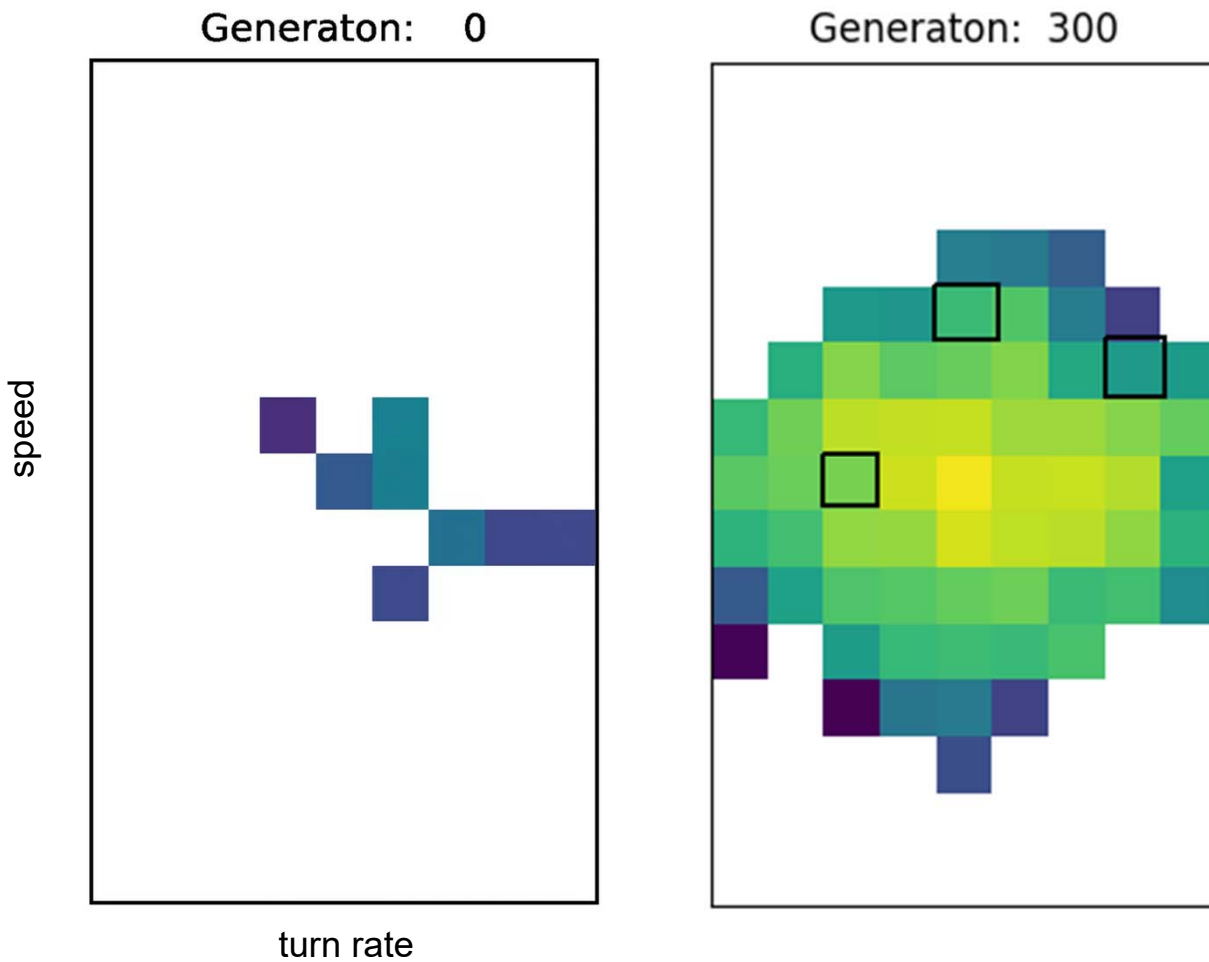
Terrain characterization & classification

Online adaptation of morphology



Quality-diversity algorithms

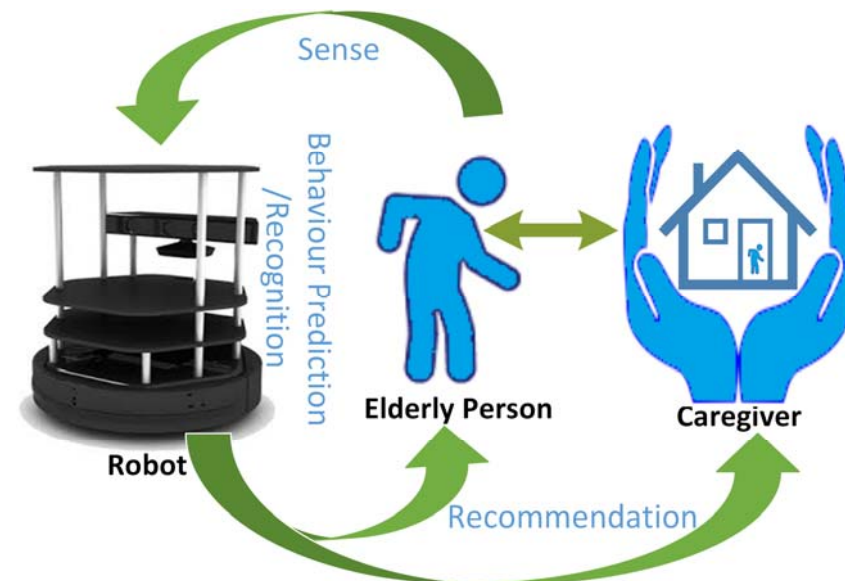
Building a repertoire of solutions



MECS: Multi-sensor Elderly Care Systems (Tørresen)

Research Council of Norway grant 247697

Goal: Create and evaluate multimodal mobile human supportive systems that are able to **sense, learn and predict future events.**



Funding: FRINATEK
Research Council of Norway

INTROMAT: Introducing personalized Treatment Of Mental health problems using Adaptive Technology (Tørresen) (2016-2021)

Research Council of Norway grant 259293



Funding: IKTPLUS Lighthouse,
Research Council of Norway

Goal: Increase access to **mental health** services for common mental health problems by developing **smartphone technology** which can **guide patients**.

<http://intromat.no>

Project Manager:

Haukeland Univ. Hospital, Bergen



The Research Council
of Norway

World models and predictions. Real vs “dream” (Ellefsen)

