ICDL-EPIROB
2019 Oslo, Norway

Call for Papers!

**9th Joint IEEE International Conference on
Development and Learning and on Epigenetic Robotics
19-22 August 2019, Oslo, Norway**
Web page: **https://icdl-epirob2019.org**

ICDL-EpiRob is a unique conference gathering researchers from computer science, robotics, psychology and developmental studies to share knowledge and research on how intelligent biological and artificial systems develop sensing, reasoning and actions. This includes development of cognitive and social abilities through dynamic interactions with their physical and social environments. This is with a twofold objective: to gain a better understanding of human and animal intelligence, and to enable artificial systems with more adaptive and flexible behaviors.

This will be the ninth time the conference is organized and we invite submissions for the conference in 2019 to explore, extend, and consolidate the interdisciplinary boundaries of this exciting research field.

Topics

Topics of interest include (but are not limited to):

– principles and theories of development and learning;

– development of skills in biological systems and robots;

– nature vs nurture, developmental stages;

– models on the contributions of interaction to learning;

– models on active learning;

– architectures for lifelong learning;

– emergence of body and affordance perception;

– analysis and modelling of human motion and state

– models for prediction, planning and problem solving;

– models of human-human and human-robot interaction;

– emergence of verbal and non-verbal communication;

– epistemological foundations and philosophical issues;

– robot prototyping of human and animal skills;

– ethics in computational intelligence and robotics.

Submissions

Authors are invited to submit original and unpublished papers of at most 6 pages in IEEE double column format. Submission will undergo peer-review impacting which papers that are selected for either oral presentation or poster presentation. Accepted and presented full six-page paper submissions will be included in the conference proceedings published by **IEEE Xplore** after the conference.

The authors of the best conference papers will be invited to submit an extended version of their papers to be reviewed for inclusion in a "2019 ICDL-EpiRob conference" **special issue** of **IEEE Transactions on Cognitive and Developmental Systems (TCDS)**.

We also invite submissions for the MODELBot Challenge, a paper competition focusing on computational models of human or animal learning, as well as the use of robotic and computational techniques for supporting human learning. Full details are provided on the conference web page.

Important dates:

Submission deadline: **February 22, 2019**

Author notif.: May 1, 2019 / Camera ready due: June 1, 2019

Conference: **August 19-22nd 2019**

Organizing committee

General chairs: Jim Torresen, Kerstin Dautenhahn

Program chairs: Kai Olav Ellefsen, Katharina J. Rohlfing

Finance / Website Chairs: Kyrre Glette, Charles Martin

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