

First Cognitive Robotics and Computational Creativity Workshop (CRCC 2017)

<http://pa.icar.cnr.it/crcc17>

in conjunction with the First IEEE International Conference on Robotic Computing
(April 10-12, 2017 Taichung, Taiwan)
<http://icrc.asia.edu.tw/workshop-crcc2017/>

Call For Papers

Overview

Computational creativity is a part of the artificial intelligence that studies how we can build a machine that creates artifacts and ideas. Creativity is something that is considered a prerogative of the human beings: probably one of the most deeply connected with our humanity.

On the other side, robotics has known a massive development in the last years, realizing more and more versatile computing machines with high social impact.

The capability to realize a creative embodied computing machine is an exciting challenge and one of the final AI frontiers. The evolution of robotics can become disruptive if a robot can exhibit also a creative behaviour.

The cognitive robotics and computational creativity workshop aims at providing an international forum for academia and industry people aiming at understanding, modeling, designing or applying innovative solutions for all aspects involving computational creativity and cognitive robotics.

Topics of interest

We invite papers from many fields that can give a contribute to understand how an intelligent and creative process can be implemented on a machine. We expect paper on the robotic computing field but also works from artificial intelligence community or at the intersection with cognitive science. We welcome also application papers and implementations supporting creative processes in humans. Interdisciplinary papers are encouraged.

Below there is a list of topics, but due to the complexity of the topics involved this list can be considered just an incomplete example

- Analogical Reasoning
- Artificial General Intelligence
- Automated Art Generation
- Automated Music Generation/Automated Composition
- Automated Poetry Generation
- Automated Story Generation
- Co-creation issues
- Cognitive Architectures
- Computational Creativity & Creativity-Support Tools
- Computational Models for Creativity
- Creativity and Human-robot interaction
- Creativity in Problem Solving
- Ethical issues in the role of artificial creativity in robotics
- Evolutionary computation
- Hybrid intelligent systems, Adaptation and Learning Systems
- Problem solving robotics

- Philosophical aspects of creativity and robotics
- Robotics and Creativity
- Robotic computing and Knowledge mining
- Robotic computing for computational intelligence and creativity
- Robotic computing frameworks for Computational Creativity
- Soft computing for robotic intelligence and creativity

Important Dates

 Paper submission deadline: January 31, 2017 (extended deadline)
 Notification of acceptance: February 7, 2017
 Camera Ready and registration: February 15, 2017

Organizing Committee

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 Filippo Vella, ICAR-CNR, Palermo, Italy
 Martin Žnidaršič, Jožef Stefan Institute, Slovenia

Submission Guidelines

 Manuscripts must be written in English (6 pages maximum, all included) and follow the instructions in the Manuscript Formatting and Templates page given in ICRC 2017 website.
 Only electronic submission will be accepted. Manuscripts may only be submitted in PDF format. Authors must submit their manuscripts through EasyChair by following this link (<https://www.easychair.org/conferences/?conf=crcc17>).
 For any question regarding the workshop please contact the Organizing Committee at crcc@icar.cnr.it