6th International Workshop on Artificial Intelligence and Cognition (AIC2018)  
http://aic2018.pa.icar.cnr.it

Call for Papers

MOTIVATION
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The research in Artificial Intelligence (AI) has been based, from a historical standpoint, on a strong collaboration with Cognitive Science. This collaboration, has produced - along the years - mutual benefits. In AI this partnership has driven to the realization of intelligent systems based on plausible models of human cognition. In turn, in cognitive science, this partnership allowed the development of cognitive models and architectures providing greater understanding on human thinking.
In recent years, after a period of partial fragmentation of the research directions, the area of cognitively inspired artificial systems is progressively attracting a renewed attention both from academia and industry and the awareness about the need for additional research in this interdisciplinary field is gaining widespread acceptance.
AIC 2018 is the 6th appointment of the workshop series AIC (http://dblp.uni-trier.de/db/conf/aic/index), started in 2013 and stemming from the need of creating an international scientific forum for the discussion and the presentation of the theoretical and applied research developments in the field of cognitively inspired Artificial Intelligence. The previous AIC workshops have been held in Turin (2013 to 2015 editions), New York (2016), Larnaca (2017).

SPECIAL-TRACK “Conceptual Spaces at Work 2018”: AIC 2018 will host a special track on the theoretical and applicative perspectives of the framework of Conceptual Spaces (CS), as introduced by Peter Gärdenfors (2000). Such framework provides a geometric model for the representation of human conceptual knowledge that bridges the symbolic and the sub-conceptual levels of representation. The model has already proven to have a broad range of applicability, not only within cognitive science but also across a number of AI fields (e.g. Computer vision, Knowledge representation and Reasoning, Computational linguistics etc.).
As for the previous editions, the AIC 2018 workshop aims at putting together researchers coming from different domains (e.g., artificial intelligence, cognitive science, computer science, engineering, philosophy, social sciences, etc.) working on the interdisciplinary field of cognitively inspired artificial systems.
Both papers spotlighting theoretical issues and experimental research in the field are welcome. The submission of papers regarding the presentation of realized or under-development cognitively inspired systems and/or applications is encouraged.

Submission Guidelines
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All papers must present original and unpublished work that is not currently under review. Papers will be evaluated according to their significance, originality, technical content and relevance to the workshop by the PC. We welcome the following types of contributions:
- Full research papers (up to 8-14 pages)
- Short research papers (up to 4-7 pages)
All submissions must be written in English and must be formatted according to the information for LNCS Authors: http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0.
Please submit your contributions electronically in PDF format to EasyChair: https://easychair.org/conferences/?conf=aic2018

List of Topics
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Knowledge Representation and Cognition (e.g. Neural Networks models, Conceptual Spaces, Ontologies etc.)
Cognitive Architectures (e.g. SOAR, ACT-R) and Cognitive modelling for Artificial Systems
B.I.C.A. (Biologically Inspired Cognitive Architectures) and systems
Cognitive Robotics
Human-Robot Interaction
Human-Computer Interaction
Evaluation of cognitively driven AI systems compared with other AI approaches
Cognition and Semantic Web
Cognitive Systems Design
Methodological open questions on AI and Cognition
Automated reasoning: deductive, probabilistic, diagnostic, causal and analogical inference
Historical and theoretical relation among Cognitive Science and Artificial Intelligence
Knowledge discovery and acquisition
Modelling of human learning and knowledge acquisition in complex domains
Computational Linguistics, Natural Language Processing & Understanding
Logic and Reasoning
Cognitively inspired Machine Learning
Computational Theories of Learning
Computational Models of Narrative for Artificial Systems (Visuo-Auditory Narrativity, Perception)
Cognition and Moving Image
Computational Creativity
Decision Support Systems

Program Committee
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Agnese Augello, ICAR-CNR, Italy
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Angelo Cangelosi, University of Plymouth, UK
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Marcello Frixione, University of Genoa, Italy
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Kai-Uwe Kuehnberger, Osnabrück University, Germany
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Loizos Michael, Open University of Cyprus, Cyprus
Vincent C. Müller, Anatolia College/ACT, Greece
Ana-Maria Olteteanu, Freie Universität Berlin, Germany
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Katerina Pastra, Cognitive Systems Research Institute, Greece
Giovanni Pilato, ICAR-CNR, Italy
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Mary-Anne Williams, University of Technology of Sydney, Australia
Filippo Vella, ICAR-CNR, Italy
David Vernon, Carnegie Mellon University, Ruanda
Frank Zenker, University of Lund, Sweden

Organizing committee
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Antonio Chella, University of Palermo and ICAR-CNR, Italy
Ignazio Infantino, ICAR-CNR, Italy
Antonio Lieto, University of Torino and ICAR-CNR, Italy

Invited Speakers
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Angelo Cangelosi, University of Plymouth, UK
Alessandro Saffiotti, Örebro University, Sweden

Publication
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Accepted papers will be included in the workshop proceedings published on-line by CEUR Workshop Proceedings (CEUR-WS.org), with ISSN. AIC proceedings are DBLP indexed: http://dblp.uni-trier.de/db/conf/aic/index

Contact
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For any question regarding the workshop please contact ignazio.infantino@cnr.it