

CALL FOR PAPERS

***AI EDAM* Special Issue, May 2014, Vol. 28, No. 2 DESIGN COMPUTING & COGNITION (DCC'12)**

Guest Editors: Tracy Hammond & Julie Linsey

This Special Issue of *AI EDAM* presents cutting edge, state-of-the-art research in design computing and cognition from DCC'12, the Fifth International Conference on Design Computing & Cognition (<http://mason.gmu.edu/~jgero/conferences/dcc12/>).

Design is a fundamentally important topic in disciplines ranging from the more commonly associated fields of engineering, information technology, and architecture to emerging areas in the social sciences and life sciences. Design research seeks to develop an understanding of designing and to produce models that can be used to aid designing.

Design research can be carried out in variety of ways. It can be viewed as largely an empirical endeavor in which experiments are designed and executed in order to test a hypothesis about a design phenomenon or design behavior. This is the approach adopted in cognitive science. The results of such research can form the basis of a computational model. Another view, which is the most common one in the computational domain, is that design research can be carried out by conjecturing about design processes, constructing computational models of those processes, and then examining the behaviors of the resulting computational systems.

Topics in design computing and cognition include, but are not limited to, the following:

- agents in design
- artificial intelligence in design
- biologically inspired and analogical design
- collaborative design
- cognitive theories applied to design
- computational theories applied to design
- creative design
- design in practice
- digital media in design
- evolutionary approaches in design
- games and design
- human cognition in design
- learning from human designers
- machine learning in design
- multimodal design
- situated computing in design
- virtual environments in design
- visual and spatial reasoning in design

All DCC'12 contributors including plenary session paper, poster, and workshop authors are invited to submit significantly revised and extended papers or completely new papers. Note that your conference papers must not be resubmitted unchanged because they are already covered by Cambridge University Press copyright.

Submissions are not open to people who did not take part in the conference. All submissions will be anonymously reviewed by at least three expert reviewers, and a selection for publication will be made on the basis of these reviews.

Information about the format and style required for *AI EDAM* papers can be found at <http://aiedam.usc.edu/>

Note that all inquiries and submissions for Special Issues go to the Guest Editors, not to the Editor in Chief.

Important Dates

Conference ends:	9 June 2012
Intent to submit (Title & Abstract):	As soon as possible after the Conference
Submission deadline for full papers:	1 December 2012
Reviews due:	1 June 2013
Notification and reviews to authors:	15 June 2013
Final revised version submission deadline:	1 September 2013

Guest Editors

Tracy Hammond
Sketch Recognition Lab
Department of Computer Science
Richardson Building Room 911
Texas A & M University
College Station, TX 77843
E-mail: hammond@cs.tamu.edu

Julie Linsey
I-DREEM Lab
Department of Mechanical Engineering
407 Mechanical Engineering Building
Texas A & M University
College Station, TX 77843
E-mail: jlinsey@cs.tamu.edu