

CHA'N'GE, a 2012 DAC Workshop

2nd International Workshop on Computing in Heterogeneous, Autonomous 'N' Goal-oriented Environments

www.change-conference.org

June 3, 2012

Moscone Center, San Francisco, California

The objective of the event is to bring together international researchers from academia and industry for a wide ranging discussion on self-aware systems. Heterogeneous multicore systems able to self-adapt is one of the main established trends in modern computing architectures. Such architectures provide important improvements in system performance, but also pose new research questions, e.g., will current processor interconnection mechanisms scale to thousands of cores?

Self-awareness in computer systems is the key technology to respond to these questions. Self-adaptive systems will be able to configure, heal, optimize, improve interaction and protect themselves without the need for human intervention, exploiting abilities that allow them to automatically find the best way to accomplish a given goal.

The CHA'N'GE workshop has three sessions, each one starting with an invited talk followed by submitted papers. A panel discussion will conclude the workshop. The invited speakers and panelists will give details about their top-level research, providing a perspective on the ongoing work both in academia and industry. Among them: **Jonathan Eastep** from Intel, **John Kubiawicz** from Berkeley, **Jian Li** from IBM Research, **Satnam Singh** from Google and **Xiaoyun Zhu** from VMware.

Conference Topics

The Program Committee cordially invites you to participate and submit your contribution to CHA'N'GE 2012. The workshop topics include, but are not limited to, the following:

Self-aware Operating Systems - [Autonomous self-aware computer architecture](#) - Adaptive algorithm and distributed self-training algorithms - [Control-theoretical-based decision process](#) - Dynamic, partial, run-time reconfiguration - [Reconfigurable embedded systems](#) - Evolvable and bio-inspired applications - [Biologically inspired systems](#) - Surveys and/or prospective papers in self-aware computing systems

Submission

CHA'N'GE will accept 8-page full papers, and 4-page short papers.

All submissions should be written in the English. An online submission link will be available on the CHA'N'GE website starting in April.

Submissions has to include the full list of authors and affiliations, and be in standard double column IEEE conference format, and submitted in PDF format.

Important Dates

Submission deadline: **April 20, 2012**

Notification of acceptance: **May 6, 2012**

Camera-ready due: **May 20, 2012**

Conference: **June 3, 2012**