

Call for Papers

1st International Workshop on Business Processes in Collective Adaptive Systems (BPCAS 2014)

In conjunction with the 12th International Conference on Business Process Management (BPM 2014)

September 8, 2014, Haifa, Israel

www.bpcas.org

ABOUT THE WORKSHOP

Collective Adaptive Systems (CAS) are heterogeneous collections of autonomous task-oriented systems that cooperate on common goals forming a collective system. To be robust, each constituent system must be able to dynamically adapt its behavior to changes in the environment while trying to reach their goals. At the same time, the different system adaptations must not be controlled centrally but rather administrated in a decentralized fashion among the systems. These aspects, collectiveness, adaptability and decentralisation are particularly relevant in businesses that wish to develop and deploy context-aware mobile applications that need to interact with pervasive technologies and cloud services.

BPCAS aims to provide a forum for researchers, developers and users to meet and discuss the challenges and results in all areas related to collective adaptive systems. The workshop will seek papers offering new contributions in the theory, design, implementation and evaluation of CASs as well as experience papers and papers from industry. The workshop is organized by the EU ALLOW Ensembles project (<http://www.allow-ensembles.eu/>). It is sponsored by the EU's Fundamentals of Collective Adaptive Systems programme initiative (<http://focas.eu/about-focas/>) that aims to integrate, coordinate and help increase visibility for research in all fields related to collective adaptive systems.

Topics of interest (but not limited to):

- business process modeling for CAS
- collective configuration of business processes in CAS
- context/knowledge-aware business processes in CAS
- collective adaptation and evolution in CAS
- formal methods for CAS
- distribution and mobility in CAS
- big data in CAS
- process similarity and emergent properties of CAS
- security and privacy in CAS
- machine learning and data mining techniques for CAS
- optimization of CAS

- frameworks, tools and programming paradigms for CAS
- usability aspects of CAS
- case studies and scenarios

PAPER SUBMISSION DETAILS

We invite submissions in two forms: full papers and position papers. Submitted papers must be written in English, should not have been submitted for review or published elsewhere, and should not exceed 12 pages for full papers, and 6 pages for position paper (including figures, bibliography and appendices). Submissions are accepted in PDF format via the EasyChair system. Submissions should be formatted according to the LNBIP format specified by Springer.

All workshop papers will be published by Springer as a post-workshop proceedings volume in the series Lecture Notes in Business Information Processing (LNBIP).

At least one author of each accepted paper is required to present the paper at the workshop.

IMPORTANT DATES

Submission deadline: June 1, 2014
Author notification: July 1, 2014
Camera-ready submission: July 23, 2014
Workshop date: September 8, 2014

WORKSHOP ORGANISATION

Organisers

Anna Lavygina, Imperial College London, UK
Naranker Dulay, Imperial College London, UK
Antonio Bucchiarone, Fondazione Bruno Kessler, Italy
Dimka Karastoyanova, University of Stuttgart, Germany
Muhammad Adnan Tariq, University of Stuttgart, Germany

Program Committee

To be announced.