

FORECAST 2016

FORMal methods for the quantitative Evaluation of Collective Adaptive SysTems (FORECAST)

Vienna, 8 July 2016
(co-located with STAF 2016)

IMPORTANT DATES

April 30, 2016	Abstract submission
May 5, 2016	Paper submission
May 25, 2016	Notification
June 5, 2016	Camera ready versions
July 4-8, 2016	STAF symposium
July 8, 2016	FORECAST workshop

OBJECTIVES

Collective Adaptive Systems (CAS) consist of a large number of spatially distributed heterogeneous entities with de-centralised control and varying degrees of complex autonomous behaviour that may be competing for shared resources even when collaborating to reach common goals. It is important to carry out thorough quantitative modelling and analysis and verification of their design to investigate all aspects of their behaviour before they are put into operation. This requires combinations of formal methods and applied mathematics which moreover scale to large-scale CAS. The primary goal of FORECAST is to raise awareness in the software engineering and formal methods communities of the particularities of CAS and the design and control problems which they bring.

TOPICS

FORECAST welcomes research papers (containing novel, previously unpublished results), experience reports, reports of case studies, tool papers, and short papers (describing work in progress or exploratory ideas), in all areas related to formal methods for the quantitative evaluation of CAS (on the crossroads of formal methods, applied mathematics, and software engineering).

INVITED SPEAKERS

Gul Agha (University of Illinois at Urbana-Champaign, USA)
Adeline Uhrmacher (University of Rostock, Germany)
Mirko Viroli (University of Bologna, Italy)

SPONSOR

quanti.col

SUBMISSIONS

We solicit the submission of original, unpublished contributions (6-12 pages) not under review for publication elsewhere. All papers must be prepared in LaTeX using the EPTCS style.

- Full papers should not exceed 12 pages.
 - Short papers should not exceed 8 pages.
- Additional details, omitted due to space limitations, may be included in a clearly marked appendix. Submit a PDF via:

<https://easychair.org/conferences/?conf=4cast2016>

PROCEEDINGS

All accepted papers will be included in the proceedings, which will be published as a volume of the Electronic Proceedings in Theoretical Computer Science (EPTCS) series.

SPECIAL ISSUE

A special issue in a highly-reputed journal is planned.

PC CHAIRS

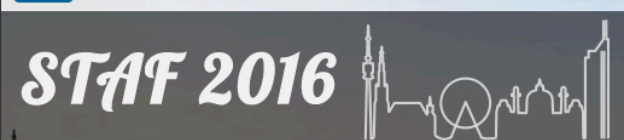
Maurice H. ter Beek (ISTI-CNR, Pisa, Italy)
Michele Loreti (University of Florence, Italy)

PROGRAM COMMITTEE

Ezio Bartocci (Technical University of Vienna, Austria)
Jake Beal (BBN Technologies, USA)
Luca Bortolussi (University of Trieste, Italy)
Rocco De Nicola (IMT Lucca, Italy)
Giovanna Di Marzo Serugendo (University of Geneva, Switzerland)
Vashti Galpin (University of Edinburgh, UK)
Nicolas Gast (INRIA Grenoble - Rhône-Alpes, France)
Holger Giese (HPI, University of Potsdam, Germany)
Michael Harrison (Newcastle University, UK)
Jane Hillston (University of Edinburgh, UK)
Axel Legay (INRIA Rennes, France)
Alberto Lluch Lafuente (Technical University of Denmark)
Mieke Massink (ISTI-CNR, Pisa, Italy)
Guillaume Massonnet (INRIA Grenoble - Rhône-Alpes, France)
Carolyn Talcott (SRI International, USA)
Erik de Vink (Technical University of Eindhoven, The Netherlands)
Franco Zambonelli (University of Modena and Reggio Emilia, Italy)

INFORMATION

For more information do not hesitate to contact the PC chairs at 4cast2016@easychair.org or visit <http://forecast.disia.unifi.it/>



July 4-8, 2016 in Vienna, Austria

