



# CONCUR 2012

3<sup>rd</sup> to 8<sup>th</sup> September 2012  
Newcastle upon Tyne, UK

## Call for Papers

<http://conferences.ncl.ac.uk/concur-2012>

*23rd International Conference on Concurrency Theory*

3rd to 8th September 2012, Newcastle upon Tyne, United Kingdom

CONCUR 2012 is an official event of The Alan Turing Year

<http://www.mathcomp.leeds.ac.uk/turing2012/>

The purpose of the CONCUR conferences is to bring together researchers, developers, and students in order to advance the theory of concurrency and promote its applications.

### TOPICS

Submissions are solicited in semantics, logics, verification and analysis of concurrent systems. The principal topics include (but are not limited to):

- Basic models of concurrency such as abstract machines, domain theoretic models, game theoretic models, process algebras, graph transformation systems and Petri nets;
- Logics for concurrency such as modal logics, probabilistic and stochastic logics, temporal logics, and resource logics;
- Models of specialized systems such as biology-inspired systems, circuits, hybrid systems, mobile and collaborative systems, multi-core processors, probabilistic systems, real-time systems, service-oriented computing, and synchronous systems;
- Verification and analysis techniques for concurrent systems such as abstract interpretation, atomicity checking, model checking, race detection, pre-order and equivalence checking, run-time verification, state-space exploration, static analysis, synthesis, testing, theorem proving, and type systems;
- Related programming models such as distributed, component-based, object-oriented, and web services.

## CO-LOCATED EVENTS

**4th to 6th September** - 21st International Workshop on Power And Timing Modeling, Optimization and Simulation (PATMOS 2012)

**7th and 8th September** - 7th International Symposium on Trustworthy Global Computing (TGC 2012)

**3rd September** - Expressiveness in Concurrency and Structural Operational Semantics (EXPRESS/SOS 2012)

**3rd September** - Games for Design, Verification and Synthesis (GASICS 2012)

**3rd September** - Hybrid Systems and Biology (HSB 2012)

**3rd September** - Young Researchers Workshop on Concurrency Theory (YR-CONCUR 2012)

**8th September** - Foundations of Coordination Languages and Self-Adaptive Systems (FOCLASA 2012)

**8th September** - Membrane Computing and Biologically Inspired Process Calculi (MeCBIC 2012)

**8th September** - Trends in Concurrency Theory and IFIP WG 1.8 Meeting (TRENDS 2012)

## PAPER SUBMISSION

CONCUR 2012 solicits high quality papers reporting research results and/or experience reports related to the topics mentioned above. All papers must be original, unpublished, and not submitted for publication elsewhere. Contributions should be submitted electronically as PDF, using the Springer LNCS style. Papers should not exceed 15 pages in length.

Each paper will undergo a thorough review process. If necessary, the paper may be supplemented with a clearly marked appendix, which will be reviewed at the discretion of the programme committee.

Papers should be submitted electronically using EasyChair online submission system: <https://www.easychair.org/conferences/?conf=concur12>

The CONCUR 2012 proceedings will be published by Springer in the ArCoSS subseries of LNCS. The proceedings will be available at the conference.

## IMPORTANT DATES

*Abstract Submission:* 4th April 2012

*Paper Notification:* 28th May 2012

*Paper Submission:* 11th April 2012

*Camera Ready Copy Due:* 11th June 2012

## STEERING COMMITTEE

Roberto Amadio, France  
Jos Baeten, The Netherlands  
Eike Best, Germany  
Kim Larsen, Denmark  
Ugo Montanari, Italy  
Scott Smolka, USA

## PROGRAMME CHAIRS

Maciej Koutny, UK  
Irek Ulidowski, UK

## ORGANIZING COMMITTEE

Joan Atkinson  
Dee Carr  
Roy Crole  
Maciej Koutny  
Victor Khomenko  
Claire Smith  
Jason Steggle  
Emilio Tuosto  
Irek Ulidowski

## PROGRAMME COMMITTEE

Luca Aceto, Iceland  
Luca de Alfaro, USA  
Eike Best, Germany  
Tomas Brazdil, Czech Republic  
Franck van Breugel, Canada  
Roberto Bruni, Italy  
Luis Caires, Portugal  
Luca Cardelli, UK  
Gabriel Ciobanu, Romania  
Pedro R. D'Argenio, Argentina  
Philippe Darondeau, France  
Rocco De Nicola, Italy

Wan Fokkink, The Netherlands  
Paul Gastin, France  
Rob van Glabbeek, Australia  
Keijo Heljanko, Finland  
Jane Hillston, UK  
Jetty Klein, The Netherlands  
Maciej Koutny, UK  
Barbara König, Germany  
Cosimo Laneve, Italy  
Gavin Lowe, UK  
Mohammadreza Mousavi, Netherlands  
Uwe Nestmann, Germany

Catuscia Palamidessi, France  
Wojciech Penczek, Poland  
Iain Phillips, UK  
Shaz Qadeer, USA  
Jean-Francois Raskin, Belgium  
Philippe Schnoebelen, France  
Irek Ulidowski, UK  
Björn Victor, Sweden  
Shoji Yuen, Japan



*Informal queries can be sent to the conference PC co-chairs*