

Call for Papers

Over the last ten years research on self-adaptive systems (SAS) and recently research on cyber physical systems (CPS) have attracted the attention of the research community. These types represent novel categories of software-intensive systems insofar that they possess significantly different properties than traditional information systems or embedded systems. SAS and CPS interact with human users and other SAS or CPS through powerful communication networks and change their behaviour in reaction to changes in their context. For example, in its first instalment in 2015, RESACS identified context-awareness and trustworthiness as central issues that pose new challenges for the requirements engineering of such systems. These and other properties cannot simply be added on to SAS nor CPS, but must be inherently built into them, from requirements to code.

Scope and Topics

The **Second International Workshop on Requirements Engineering for Self-Adaptive and Cyber Physical Systems (RESACS)** seeks original reports of novel ideas, emerging trends, and elaborations on the current state of practice and state of the art on any topic relevant for requirements engineering under special consideration of self-adaptiveness, collaboration and cyber physicality of systems.

Topics regarding RE for SAS and CPS include, but are not limited to:

- Methods for Assessing the Requirements
- Context Analysis and Domain Modeling
- Collaboration and Trustworthiness in Collaboration
- Specification
- Quality Assurance
- Strategic and Ad-hoc Reuse of Components and Systems
- Design Space Exploration and Communication Strategies
- Requirements Satisfaction Monitoring at Runtime
- Runtime Adaptation and Decision Making
- Dealing with Runtime Uncertainty
- Ad-hoc networking of cyber physical entities and services
- Benefits and Application Areas

Submission

We accept original manuscripts in English with strict adherence to the **Springer LNCS** format for the following categories:

- **Full Papers (up to 15 pages):**
New Methods & Approaches, Transfer of Existing Approaches, Empirical Validation, Case Studies, Industry & Experience Reports
- **Short Papers (up to 6 pages):**
Problem Statements, Vision Papers, Position Papers, New Ideas and Directions, Initial Evaluations
- **Poster Papers (up to 4 pages):**
Tool Presentations, Meta-Modelling Approaches, Very Initial Research Ideas without Evaluation

Springer LNCS style guidelines are available at <http://goo.gl/30WESG>. Manuscripts that do not adhere to the LNCS style guide will be rejected without review.

Please submit your original manuscripts using the **EasyChair Submission System**:
<https://easychair.org/conferences/?conf=resacs2016>

Important Dates

Paper Submission	Jan 15 th , 2016
Paper Notification	Feb 5 th , 2016
Camera Ready Submission	Feb 26 th , 2016
Workshop	Mar 14th, 2016

Publications

All accepted papers will be published in the REFSQ joint workshop proceedings and appear online at CEUR Workshop Proceedings: <http://ceur-ws.org/>

Workshop Format

In the tradition of RESACS' mother conference REFSQ, we seek a highly interactive workshop format featuring the presenter-discussant paradigm. For every accepted manuscript, it is expected that at least one author will attend the entire workshop and present their research in panel. For each presented manuscript, a discussant is selected who is asked to review the manuscript and prepare a short summary presentation (1 slide). This format is intended to provoke highly constructive discussions among the presenters and the audience in order to jointly identify properties of SAS and CPS, what these properties entail for requirements engineering, and guide the workshop participants' future research.

Organisers

Marian Daun – *University of Duisburg-Essen, Germany*
Cristina Palomares – *Universitat Politècnica de Catalunya, Spain*
Bastian Tenbergen – *Oswego State University, USA*

Programme Committee

Raian Ali – *Bournemouth University, UK*
Ottmar Bender – *Airbus Defence and Space, Germany*
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Kai Petersen – *Blekinge University Politècnica de Catalunya, Sweden*
Carme Quer – *Universitat Politècnica de Catalunya, Spain*
Björn Regnell – *Lund University, Sweden*
Vitor E. Silva Souza – *Federal University of Espírito Santo, Brazil*

Workshop Contact

<http://resacs2016.wordpress.com/>
resacs@paluno.uni-due.de