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Requirements@RunTime (RRT) 2012 -- Call for Papers

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3rd International Workshop on Requirements@RunTime (RRT) – Monday 24th September 2012, in conjunction with RE 2012 - Chicago, Illinois, USA, September 24th - 28th 2012

http://staff.lero.ie/lpasqua/RRT12/

IMPORTANT DATES:

Submission deadline: Friday June 15th

Notification of acceptance: Friday July 13th

Final Versions: Friday July 27th

Date of Workshop: Tuesday 25th September

Motivations:

Requirements@RunTime (RRT) will explore a radical challenge to the traditional view of requirements models as static and purely design-time entities. Requirements@RunTime (RRT) will explore the potential for run-time abstractions and models of requirements as a practical means to address the challenges posed by volatile or poorly understood environmental contexts. These include business environments that are subject to dramatic and unforeseen economic conditions, or physical environments that may be remote and hostile to humans and computers. For such systems, detailed a-priori domain understanding is not achievable at design-time. This inevitably acts against the formulation of stable requirements. Rather, the requirements will need to be revised and reappraised over periods too short to be achieved by off-line adaptive maintenance. To achieve this, systems will need to maintain requirements models that are dynamic, run-time entities that support reasoning, sometimes with the aid of human, and sometimes not, so that the systems can respond in appropriate ways to changes in their environments. Requirements@RunTime (RRT) takes its cue from important recent work in a number of areas, including requirements monitoring, computational reflection, self-adaptive systems and multi-objective reasoning.

Objectives:

The workshop aims to: Integrate and combine research ideas from requirements modeling, requirements monitoring, computational reflection, model-driven engineering (including models@run.time), and self-adaptive and self-explaining systems. Provide a state-of-the-art expressed in terms of research issues, challenges, and achievements. This can be used to guide research in the area. Simulate the creation of a network of researchers in the area who may share their experience and results. We seek high-quality paper submissions on the following topics and on any topic with a strong relation to run-time requirements models:

- Representation of Runtime Requirements
- Computational Reflection and Runtime Requirements
- Reasoning over Runtime Requirements
- Traceability of Runtime Requirements
- Relationship of Runtime Requirements to other SE phases (architecture/design/testing)
- Application areas (e.g., Self Adaptive Software Systems, security engineering, adaptive mobile applications)
- Requirements monitoring
- Diagnosis of Failed Requirements (self-explaining systems)

Workshop format:

The Requirements©RunTime (RRT) workshop duration is one day. The workshop will be discussion-oriented to promote interaction and exchange of ideas among participants. The first part of the workshop will give the opportunity to authors to present their papers. From these, we will synthesize a set of research challenges that will be used to set the agenda for discussion in the afternoon breakout sessions. The afternoon session will particularly focus on discussing approaches for tackling the challenges. We will consider partitioning some of the discussion into thematic domains of interest that reflect the participants interests, such as adaptive mobile applications, security, energy, and automotive software engineering.

We invite two categories of papers:
- Full papers (8-10 pages)
- Position papers (4-6 pages)

Paper Submission Guidelines:

Papers submitted should follow the two-column IEEE format, according to the IEEE Conference Publishing Services formatting instructions (http://www.computer.org/portal/web/cscps/formatting).
Each paper will be reviewed by at least three (3) reviewers, and authors will be notified of acceptance before the RE 2012 early registration deadline. We will also welcome non-presenting participants, although the number of attendees will be limited by the room capacity.

Note that:
- Workshop PC members are allowed and welcome to submit papers.
- Workshop organizers are allowed and welcome to submit papers to workshops organized by others.

Organizing Committee:

Yijun Yu (main contact) at y.yu@open.ac.uk, The Open University (UK)

Liliana Pasquale, Lero (Ireland)

Nauman Qureshi, NUST (Pakistan)

Bashar Nuseibeh, Lero & the Open University (Ireland & UK)

Progamme Committee:

- Raian Ali, Bournemouth University, UK
- Rami Bahsoon, University of Birmingham, UK
- Luciano Baresi, Politecnico di Milano, Italy
- Nelly Bencomo, INRIA Paris-Rocquencourt, France
- Daniel Berry, University of Waterloo, Canada
- Amit Chopra, Imperial College, UK
- Fabiano Dalpiaz, University of Trento, Italy
- Neil Ernst, University of British Columbia, Canada
- Stephen Fickas, University of Oregon, USA
- Carlo Ghezzi, Politecnico di Milano, Italy
- Shinichi Honiden, NII, Japan
- Paola Inverardi, University of L'Aquila, Italy
- Alexei Lapouchnian, University of Trento, Italy
- Emmanuel Letier, University College London, UK
- Sotirios Liaskos, York University, Canada

- Klaus Havelund, NASA, USA
- Xin Peng, Fudan University, China
- Anna Perini, University of Trento, Italy
- William Robinson, Georgia State University, USA
- Mazeiar Salehie, Lero, Ireland
- Pete Sawyer, Lancaster University, UK
- Alistair Sutcliffe, University of Manchester, UK
- Ladan Thavildari, University of Waterloo, Canada
- Axel van Lamsweerde,Université catholique de Louvain
- Jon Whittle, Lancaster University, UK
- Eric Yu, University of Toronto, Canada

Further details can be found at: http://staff.lero.ie/lpasqua/RRT12