The 25th ACM Symposium on Applied Computing

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http://www.acm.org/conferences/sac/sac20010

Call-for-papers on
Requirement Engineering

For the past twenty-three years, the ACM Symposium on Applied Computing has been a primary gathering forum for applied computer scientists, computer engineers, software engineers, and application developers from around the world. SAC 2010 is sponsored by the ACM Special Interest Group on Applied Computing (SIGAPP), and is hosted by University of Applied Sciences, Western Switzerland (HES-SO) and Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland. Further details may be found at:
http://www.acm.org/conferences/sac/sac2010/.

Requirement Engineering is defined as the branch of Software Engineering concerned with the real-world goals for, functions of, and constraints on software systems; it is also concerned with the relationship of these factors to precise specifications of software behaviour and to their evolution over time and across software families. Requirements Engineering is increasingly recognized as a critically important activity in any systems engineering process.

The arising of many complex software applications in many multidisciplinary domains, the speed with which they need to be developed, and the degree to which they are expected to change, all play a role in determining how the systems development process should be conducted. Independently of the nature of the software, the elicitation, analysis, negotiation, specification, validation and management of requirements are fundamental for the development of quality in complex software. Only by fully understanding stakeholders'needs, and documenting them in a concise, and unambiguous way, can consistently deliver quality products designed to meet the complexities of our advanced information society.

However, there are a number of inherent difficulties in the RE process. The existing methods for requirements specification are far from being completely satisfactory. Requirements must be measurable, testable, related to identified business and other field needs or opportunities, and defined to a level of detail sufficient for system design. The demand for better, faster, and more usable software systems will continue, and RE will therefore continue to evolve in order to deal with different development scenarios which must be considered. Besides that, many new areas are being investigated by requirements engineering community (such as: aspect-oriented or agents-oriented development, COTS-based systems, use of simulation techniques, autonomic system) to achieve better ways for leading with the involved complexity.

The objective of this track is to explore different advances in requirement engineering in a general way, its relation with different areas, reducing the gap between software engineering solutions and the way one specific domain of knowledge was seen up to given point.

These are the main areas of concern in Requirement Engineering:

- Requirement Engineering for Scientific Areas
- Requirement elicitation, analysis, documentation
- Requirement specification languages, methods, processes, and tools
- Requirement management, traceability, viewpoints
- Modelling of requirements, goals, and domains
- Non-functional requirements
- Requirement engineering and software architecture
- Aspect-oriented requirement engineering
- Agent-oriented requirement engineering
- Requirements for COTS-based systems
- Case studies and experiences based on Requirement engineering
- Social, cultural, and cognitive factors in requirement engineering
- Requirement engineering Education and Training
- Requirements and Simulation
- Requirements and Autonomic Systems

Paper Submission

Authors are invited to submit **original** and **unpublished** papers in all areas of Requirement Engineering.

The program committee will blindly review submissions to that track. The author(s) name(s) and address(es) must not appear in the body of

the paper, and self-reference should be in the third person. This is to facilitate blind review. The paper should not exceed 5 pages (without extra-fee) in ACM format, 8 is the maximum of pages (there will be a charge of 80USD per extra page).

Submissions should be printable on a standard printer on common paper formats, such as US letter and A4. Papers should not be submitted to more than one ACM-SAC track.

Paper submissions should be done electronically through the website http://sac.cs.iupui.edu/SAC2010. Further information may be found at: http://www.acm.org/conferences/sac/sac2010/.

Accepted papers will be published in the annual conference proceedings. The total number of final pages without any extra page charge will be 5,pages, and with extra charge will be 8. One may refer to the final copy format at "http://www.acm.org/sigs/pubs/proceed/template.html".

Important due dates

Sept. 8, 2009: Paper submissions
Oct. 19, 2009: Author notification
Nov. 2, 2009: Camera-Ready Copy

All deadlines will be strictly enforced.

Program Committee

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Yijun Yu, Open University, UK

Track Website

Updated information on the Requirement Engineering track may be found at:
http://www.dsc.upe.br/~sac2010

Contact

For further information please contact the track organizer:

Maria Lencastre
Departamento de Sistemas e Computação
Universidade de Pernambuco
Recife – PE – BRAZIL
Phone: + 55 81 21193842
Fax: + 55 81 21193881
 E-mail: maria@dsc.upe.br