Name of the Workshop:
10th IWSSA (10th International Workshop on System/Software Architectures)

Workshop description/CfP

Far from being residual in its importance, Systems and Software Architectures prevail as a touchtone for many System and Software Engineering (SSE) projects in achieving a certain level of quality. The successive emergence of new development approaches and the advent of new technologies and computation paradigms, such as Cloud Computing, Model and Ontology driven Engineering, Lean Software Development, Agile, etc., lend new opportunities for academicians, practitioners and even politicians to steadily strive to come up with new system designs or even revisit old ones.

In recent years, service oriented and/or service-driven architectures are gaining momentum within the SSE community and even changing the way in which system operation is conceived. Indeed, thinking of services almost means not developing any more, but orchestrating and choreographing functionalities developed in the past through well-defined interfaces. Interoperability, heterogeneity, etc. are commonplace in this context.

IWSSA workshop specially focuses on the enactment/connection of the different kinds of system and software requirements into/to concrete design issues (decisions, guidelines, paradigms, etc.) for system/software architectures. In particular, the workshop stresses the importance of non-functional requirements analysis for successful architectural designs. Techniques, methodologies and processes to address this issue will be presented and discussed at the workshop.

The topics, with special emphasis on architectures satisfying requirements in service oriented and service-driven environments, include but are not limited to:

• architecting critical systems for diversity and collaborative operationality
• roles of enterprise/system architectures in system/software lifecycle
• requirements and software architectures for specific application domains and product lines
• case studies especially for complex systems in organizational and social settings
• architectural models in model-driven approaches
• traceability and dependency among requirements, system architectures and software architectures
• engineering quality in architectures to address non-functional requirements such as security, interoperability, adaptability, responsiveness, ubiquity, reliability, dependability, self-healing ability, performance, usability, safety, functionality, etc.
• methodologies and techniques applied to the construction of high-quality system/software architectures
• models and design theories – both evolutionary and revolutionary - for system architectures and software architectures
• software architecture maintenance, evolution and management
• validation of requirements and verification techniques for architectural design
• metrics for architectures
• service-oriented / object-oriented / aspect-oriented / goal-oriented / agent-oriented / scenario-based approaches to enterprise/software architecture development
• COTS / GOTS / Component / Middleware-Based development for architectures
• Ontology-driven architectures
Program Committee Members

- Wil van der Aalst, Eindhoven University of Technology, The Netherlands
- Philippe Aniorte, LIUPPA IUT de Bayonne, France
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- María Luisa Rodríguez, University of Granada, Spain
- Gustavo Rossi, University of La Plata, Argentina
- Vespe Savikko, Elektrobit, China
- Michael Shin, Texas Technical University, USA
- Sam Supakkul, University of Texas at Dallas, USA
Publication
Accepted papers will be published in a LNBIP Proceedings Volume by Springer Verlag.

After each workshop edition, IWSSA chairs have edited a special issue in a Software Engineering journal with significantly improved and extended versions of papers accepted. Previous special issues related to IWSSA have been published in the Journal of Science of Computer Programming (four special issues), the Journal of Systems Architecture, Computer Standards & Interfaces and the Journal of Systems and Software.

This time again, authors of selected quality papers, from those presented at IWSSA’12, will be invited to submit significantly extended versions to the review process for a special issue of an International Journal (pending agreement).

Organizers’ names
Lawrence Chung, University of Texas at Dallas (USA)
Manuel Noguera, University of Granada (Spain)
Nary Subramanian, University of Texas at Tyler (USA)
José Luis Garrido, University of Granada (Spain)

Submission and paper acceptance deadlines
- Abstract Submission Deadline: February 2\textsuperscript{nd}, 2012
- Paper Submission Deadline: February 9\textsuperscript{th}, 2012
- Acceptance Notification: March 9\textsuperscript{th}, 2012
- Camera Ready Due: March 23\textsuperscript{rd}, 2012

Workshop site:
http://www.ugr.es/~iwssa