

THE 6th INTERNATIONAL WORKSHOP ON SYSTEM/SOFTWARE ARCHITECTURES (IWSSA'07)

co-located with

THE INTERNATIONAL CONFERENCE ON
SOFTWARE ENGINEERING RESEARCH AND PRACTICE (SERP'07)
also within **WORLDCOMP'07**
June 25-28, 2007, Monte Carlo Resort, Las Vegas, Nevada, USA

Full paper submission due by: April 8th, 2007 (extended deadline)



THEME

Just about everything has an architecture - be it a software system, an organization, or even a human body - consisting of parts and interactions among the parts. Of increasingly crucial concerns in Software Engineering are the system architecture which describes the parts, and interactions between the parts, of the system - be it the enterprise architecture in which the projected software system is to function or the architecture of the projected software system itself.

This year's theme is designing high quality in the (potentially distributed) system/software architectures. Inevitably most of the properties of the final system/software are determined by the architecture, hence the quality properties of the architecture becoming a central concern for the quality of the final system/software. However, representing the concerns for high quality architectures and designing architectures that can indeed be shown to meet such concerns currently is anything but systematic. The pressing need in industry is to represent the numerous types of quality properties and design them in architectures, not in an isolated manner but more in a coherent manner, and with traceably adequate levels of abstractions.

You are invited to participate in the 6th International Workshop on System/Software Architectures (IWSSA'07), which will provide an international forum for researchers and practitioners to exchange ideas and discuss the problems, as well as solutions, in the field of system architecture and software architecture. A main theme of this workshop will be about techniques and methodologies for developing high quality system/software architectures that are secure, interoperable, adaptive, responsive, reliable, ubiquitous, dependable, self-healing, etc.

WORKSHOP

The 6th International Workshop on System/Software Architectures (IWSSA'07) will be held as part of the International Conference on Software

Engineering Research and Practice (SERP '07), June 25-28, 2007, in Las Vegas, Nevada, USA. SERP'07 is part of the 2007 World Congress in Computer Science. This will be the 6th workshop in the series - the 5th, 4th, 3rd and 2nd International Workshop on System/Software Architectures respectively were held in 2006, 2005, 2004 and 2003 in the SERP series, and the 1st Workshop as a session on Adaptable Software Architectures in 2002 as part of SERP'02. All received excellent responses and the top papers were published not only in the conference proceedings but also in special journal issues. This time again, selected papers from those presented at IWSSA'07 could be published in a special journal issue, pending agreement with a journal publisher.

The topics for the papers include, but not limited to:

- roles of enterprise/system architectures in Requirements Engineering
- roles of Requirements Engineering in enterprise architecting
- models of, and model-driven approaches for, enterprise/software architectures
- applications, and case studies, of enterprise/software architectures
- engineering quality in architectures to include characteristics such as security, interoperability, adaptability, responsiveness, ubiquity, reliability, dependability, self-healing ability, performance, usability, safety, etc.
- methodologies for mapping between the enterprise architecture and the corresponding software architecture
- software architectures and design theories
- software architecture maintenance and evolution
- formal validation and verification techniques
- metrics for architectures
- object-oriented / aspect-oriented / goal-oriented / agent-oriented / scenario-based approaches to enterprise/software architecture development
- service-oriented architectures (SOA)
- COTS / GOTS / Component / Middleware-Based development methodologies for enterprise/software architectures

PROGRAM COMMITTEE

- Philippe Anierte, LIUPPA IUT de Bayonne, France
- Doo-Hwan Bae, KAIST, Korea
- Roger Champagne, Ecole de technologie superieure, Canada
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- Vespe Savikko, VTT, Finland
- Motoshi Saeki, Tokyo Institute of Technology, Japan
- Michael Shin, Texas Technical University, USA
- Yeong Tae Song, Towson University, USA
- Nary Subramanian, The University of Texas at Tyler, USA

PAPERS

Two types of papers are invited:

- short paper: 1-4 pages, position paper or work-in-progress
- full paper: 5-7 pages, research results or experience

All papers should be in the IEEE format ([latex](#), [MS-Word](#)). All papers will be peer-reviewed by the PC members and accepted papers will be published in the workshop proceedings. Please send the papers with the subject "IWSSA07" to one of the workshop co-chairs:

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Workshop Website: <http://lsi.ugr.es/~jlgarrid/iwssa07>

DEADLINES

Full Paper Submissions Due:	April 8, 2007 (Extended deadline!)
Acceptance Notification to Authors:	April 15, 2007
Camera-ready Papers Due:	April 29, 2007