



:: Deadlines

Submission: Jan. 26, 2009
Notification: Feb. 5, 2009
Camera Ready: Feb. 19, 2009

:: Workshop Chairs

Patricia Lago
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:: Program Committee

Pierre America
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Antony Tang
Hans van Vliet
Uwe Zdun
Olaf Zimmermann

:: Submission Guidelines

Solicited paper categories are:
* Future trend papers (4 pp.)
* Research papers (8 pp.)
* Industrial papers (8 pp.)
Upload your submission online to the ICSE cyberchair website. All submissions must conform to the ICSE 2009 submission format and guidelines.

:: Proceedings

All accepted papers will appear in the IEEE Digital Library. Selected papers will be invited for the Section on *Software Architecture*, [Elsevier Journal of Systems and Software](#).

MOTIVATION AND OBJECTIVES

Software architecture plays an increasingly important role to manage the complex interactions and dependencies between the stakeholders and to provide a central artifact that can be used for reference by them. Existing notational and documentation approaches to software architecture typically focus on the components and connectors and fail to document the design decisions that resulted in the architecture as well as the organizational, process and business rationale underlying the design decisions. This results in high maintenance cost, high degrees of design erosion and lack of information and documentation of relevant architectural knowledge.

This workshop focuses on current approaches, tackling this problem: methods, languages, notations, tools to extract, represent, share, use and re-use architectural knowledge. Architectural Knowledge (AK) is defined as the integrated representation of the software architecture of a software-intensive system (or a family of systems), the architectural design decisions, and the external context/environment.

MAIN TOPICS

Topics of the workshop include but are not limited to:

- * Types of architectural knowledge in industrial settings
- * Notations and languages to model or visualize architectural knowledge
- * Ontologies, domain models and meta-models for architectural knowledge
- * Communicating, sharing and using architectural knowledge - approaches and case studies
- * Tools to extract, visualize, share or use architectural knowledge
- * Evolution of architectural knowledge
- * Sharing architectural knowledge in the context of Model-Driven Engineering (MDE)
- * Architectural knowledge in Global Software Engineering
- * AK in SOA and service engineering
- * AK in product line architecture development
- * Agile environments for AK sharing (including social networks and knowledge grids)
- * Tactics to support capture and transmission of AK
- * Communicating architectural knowledge in open, inner and private communities
- * Architectural knowledge for requirements engineering
- * Traceability between requirements, architectural design decisions and architectural solutions (e.g. patterns, tactics, reference architectures)
- Architectural knowledge in the process of architecting