



#### DEADLINES

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#### WORKSHOP CHAIRS

Patricia Lago

Paris Avgeriou

Philippe Kruchten

#### PROGRAM COMMITTEE

Pierre America

M. Ali Babar

Remco de Boer

Janet Burge

Jan Bosch

Rafael Capilla

Paul Clements

Torgeir Dingsoyr

Peter Eeles

Bart van den Hooff

Rich Hilliard

Anton Jansen

Kai Koskimies

Peng Liang

Ivan Mistrik

Henry Muccini

Eltjo Poort

Antony Tang

Hans van Vliet

Eoin Woods

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 submission format and guidelines

#### PROCEEDINGS

All accepted papers will appear in the ICSE Companion and in the ACM Digital Library. Selected papers will be invited for the Elsevier Journal of Systems and Software

## Sixth Workshop on SHARing and Reusing architectural Knowledge [www.shark-workshop.org](http://www.shark-workshop.org)

Waikiki, Honolulu, Hawaii, May 24, 2011  
at **33<sup>rd</sup> Int. Conference on Software Engineering**

### Motivation and Objectives

SHARK focuses on current and emerging methods, languages, notations, technologies and tools to extract, represent, share, use and re-use architectural knowledge. Architectural Knowledge (AK) is 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. It is recognized as the means for architecture governance; it facilitates and supports collaboration and the transfer of expertise.

In this sixth SHARK edition we will investigate the approaches for AK personalization: knowledge is not codified through templates or annotations, but it is exchanged through the discussion between the different stakeholders. Therefore, the emphasis does not lie on resource-intensive documentation but on lightweight, just-in-time conversations facilitated by “knowledge yellow pages” (who knows what). The AK community has not explored AK personalization in depth, even though it has acknowledged its value as a viable approach.

### 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; use of viewpoint and ADL to transfer AK
- ★ Ontologies, domain models and meta-models for architectural knowledge
- ★ Communicating, sharing and using architectural knowledge – approaches and case studies, especially in an industrial setting.
- ★ Tools to extract, visualize, share or use architectural knowledge
- ★ Evolution of architectural knowledge
- ★ Sharing architectural knowledge in the context of SOA or MDE
- ★ Architectural knowledge in Global Software Engineering
- ★ Communicating architectural knowledge in open, inner and private communities
- ★ Sharing architectural knowledge in agile development projects
- ★ 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
- ★ AK reasoning techniques
- ★ Methods and tools for AK personalization
- ★ Hybrid approaches: making the best of both personalization and codification
- ★ Industrial case studies of AK personalization
- ★ Applying knowledge management theory of knowledge personalization

