



#### DEADLINES

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#### 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

