Sixth Workshop on SHAring and Reusing architectural Knowledge
www.shark-workshop.org

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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