



SKY'2013

4th International Workshop on Software Knowledge

22 September 2013, Vilamoura, Portugal

Hosted by IC3K'2013 – The 5th International Joint Conference on Knowledge
Discovery, Knowledge Engineering and Knowledge Management

Organizers

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Scope

“*Software Knowledge*” – in short SKY – means that software in its higher abstraction levels is a new kind of *knowledge*, *Runnable knowledge*. Thus, the classes and relationships of a software UML diagram are easily viewed as the classes and relationships of a knowledge ontology.

For further details visit SoftwareKnowledge.org.

The main theme of the SKY2013 Workshop is *Software Systems Knowledge*. We mean that time is ripe to investigate the promising implications of Software Knowledge ideas to real life and large software systems.

The Workshop main objective is to discuss and propose practical tools to deal not only with experimental and laboratory research, but to actually facilitate transition into industrial grade and production software systems.

Topics of Interest

Software Knowledge is a *runnable expression of meaning*. Running facilitates understanding in a very general sense. This is the rationale for the debugging process in a micro scale, where one runs and breaks at desired points to understand the reason of software failures. This is the basis of agile methods to manufacture and test concurrently, in a medium scale. This is the possible source of great new tools, in a macro scale, from the software hierarchy *highest abstraction levels* down to executable code.

SKY2013 topics of relevance include but are not limited to:

Software-Knowledge Hierarchy, Tools and Operations

- Software-Knowledge Hierarchy for Large Scale Systems
- Abstract Operations for Industrial Applications
- Software-Knowledge selectivity and traceability
- Software-Knowledge Sharing: Meta-models, interchange formats, and tools
- Knowledge Driven Architecture and Engineering

Software-Knowledge Runnability and Meaning

- Ontologies in complex systems
- Semantics above and beyond design patterns
- Runnable and testable knowledge representations
- Software-Knowledge representation and modeling
- Web dynamics and interestingness

Expected Outcomes

Expected outcomes of the SKY2012 Workshop are:

- Proposals of new tools for large-scale Software-Knowledge based production.
- A continuing effort to standardize a Software-Knowledge representation consisting of software models encompassing semantics as first class objects.

Important Dates

May 29, 2013: Full & Position Papers Submission

June 23, 2013: Author Notification

July 03, 2013: Final Paper Submission and Registration

September 22, 2013: Full day Workshop

Program Committee

To be announced soon.

Invited Speakers

Following the tradition established in previous years, SKY'2013 will invite recognized researchers to deliver invited talks in the workshop.

Paper Submission

Prospective authors are invited to submit papers in any of the topics listed above. Instructions for preparing the manuscript (in Word and Latex formats) are available at: [Paper Templates](#). Please also check the [Submission Guidelines](#). Papers should be submitted electronically via the web-based submission system at: <http://www.insticc.org/Primoris>

Publications

All accepted papers, including position papers, will be published in the workshop proceedings book and on CD-ROM support, under an ISBN reference.

All papers presented at the conference venue will be available at the SciTePress Digital Library (<http://www.scitepress.org/DigitalLibrary/>). SciTePress is member of CrossRef (<http://www.crossref.org/>).

Previous Editions

For information on previous SKY Workshops please visit the SoftwareKnowledge.org web site.

Registration Information

At least one author of an accepted paper must register for the workshop, and the registration fees received by **July 03, 2013**, in order to have the paper published in the workshop proceedings book.

Secretariat Contacts

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