

KDIR
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IC3K 2013

5th International Joint Conference on Knowledge Discovery,
Knowledge Engineering and Knowledge Management

Vilamoura, Algarve, Portugal

22 September, 2013

WORKSHOP SUBMISSION: MAY 29, 2013



SKY 2013

4TH INTERNATIONAL WORKSHOP ON SOFTWARE KNOWLEDGE

In conjunction with the International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management - IC3K 2013

“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.

CO-CHAIRS:

- Iaakov Exman, JCE - Jerusalem College of Engineering, Israel
- Juan Llorens, Carlos III of Madrid University, Spain
- Anabel Fraga, Carlos III of Madrid University, Spain

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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

PUBLICATIONS

All accepted papers will be published in the conference proceedings, under an ISBN reference, on paper and on CD-ROM support. 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/>). A short list of presented papers will be selected so that revised and extended versions of these papers will be published by Springer-Verlag in a CCIS Series book.

VENUE

With the famous Marina on one side and its own concessioned beach on the other, Tivoli Marina Vilamoura is a reference for luxury tourism in Algarve. The lively social and nightlife of Vilamoura attracts many local celebrities from different areas who come to enjoy the holidays and weekends of complete relaxation, where there is plenty to do such as shopping, a visit to the casino and golf. This luxury hotel in Vilamoura offers excellent facilities and quality service ensuring guests a memorable stay in Portugal.