

SKY'2017

Software is Knowledge

8th International Workshop on Software Knowledge
01-03 November 2017, Funchal, Madeira, Portugal

Hosted by IC3K'2017 – The 9th International Joint Conference on
Knowledge Discovery, Knowledge Engineering and Knowledge Management

Software Knowledge

Software is Knowledge and Knowledge is power.

What was the motivation for Google, a software company, to enter the market of autonomous vehicles? Why this and other software companies totally disrupted the traditional vehicles market, from small cars to giant trucks? Why so many people are in danger of losing their jobs in developed countries? Why intelligent people are afraid of their lives being challenged by Artificial Intelligence?

The short answer: Software is Knowledge and Knowledge is power.

For details: SKY'2017 International Workshop on Software Knowledge.

Organizers

Jaakov Exman

The Jerusalem College of Engineering, JCE, Azrieli (Israel) – Software Engineering
e-mail: jaakov@jce.ac.il

Anabel Fraga

Carlos III of Madrid University (Spain) – Computer Science
e-mail: anabel.fraga@uc3m.es

Juan Llorens

Carlos III of Madrid University (Spain) – Computer Science
e-mail: juan.llorens@uc3m.es

Points of View

The importance of Software Knowledge mainly stems from three points of view:

1- CONCEPTUAL INTEGRITY

As suggested by Fred Brooks, based upon his extensive experience of systems development, and deep considerations: “The most important factor for successful design and development of systems is *Conceptual Integrity*”, where concepts are the “atoms” of Knowledge.

2- SYSTEM MODELING

System modeling (by UML or SysML or even Modelica) is essential for rational system design and development. But that’s not enough. One should go upwards one more layer of abstraction and start with an *application ontology*. From the ontology one can obviously generate UML class diagrams and so on. One then has a much deeper understanding of the system.

3- PRECISE REQUIREMENTS

Critical and very complex systems, such as aircraft, demand zero software bugs. Otherwise, human lives are endangered and giant financial losses are incurred. *Precise system requirements* should therefore be formulated and understood by all the involved people, be they developers or stakeholders.

NO Expected Outcomes

There are NO immediate Expected Outcomes for the SKY’2017 Workshop.

Software Knowledge is a difficult, important and continuing effort that will radically change software and system industries.

Important Dates

Full and Position Paper Submission: September 4, 2017

Authors Notification: September 7, 2017

Camera Ready and Registration: September 12, 2017

Full day Workshop: November 02, 2017:

Program Committee

To be soon announced in the website (<http://www.ic3k.org/SKY.aspx>)

Invited Speakers

SKY'2017 will invite recognized researchers to deliver challenging invited talks in the workshop.

Paper Submission

Prospective authors from the academic and industrial environments are invited to submit papers relevant to the **Points of View** 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.

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 a member of CrossRef (<http://www.crossref.org/>).

Registration Information

At least one author of an accepted paper must register for the workshop, and the registration fees received by **September 12, 2017**, in order to publish the paper in the workshop proceedings.

Secretariat Contacts

e-mail: ic3k.secretariat@insticc.org