

Business and Software Ecosystems: How to Model, Analyze, and Survive!



23rd IEEE International Requirements Engineering Conference (RE'15)

Ottawa, Canada

<http://www.re15.org>

Tutorial T09

Tuesday, August 25, 2015 (half-day in the morning)

Are you using or developing software?

Do you know you are actually part of an ecosystem?

Are you worried about risks from licenses, quality of code or software maintenance?

This tutorial is for you!

We believe that understanding the social and organizational context of organizations is critical to the success of many systems today. This tutorial focuses on the modeling and analysis of Business and Software ecosystems that represent a community supported by a foundation of interacting organizations and the broader commercial, legal and market context in which software systems operate.

In the tutorial we will introduce:

- methods for modeling and analyzing the intentional perspective and structure of ecosystems in terms of ecosystem actors and their social dependencies established to collaborate and to co-create value through the i^* goal-modelling framework
- reasoning processes to be used on the ecosystem models to analyse their vulnerabilities and risks
- the case of Open Source Software (OSS) ecosystems and the specific activity of risk management in OSS ecosystems investigated in the EU project **RISCOSS** (www.riscoss.eu)

During the tutorial, participants will be invited to model an OSS ecosystem, identify relevant measures that influence risks, and analyse license, quality and maintainability risks that impact the activities of ecosystem actors. The tutorial and exercise will showcase the capabilities of the RISCOSS risk analysis platform.



Xavier Franch is Associate Professor at Universitat Politècnica de Catalunya, Spain. His research interests are in the areas of requirements engineering, open-source software management, software architecture, and service monitoring.



Angelo Susi is a research scientist at the Fondazione Bruno Kessler in Trento, Italy. His research interests are in the areas of requirements engineering, goal-oriented software engineering, and search-based software engineering.



Eric S. K. Yu is Professor at the University of Toronto, Canada. His research interests are in the areas of information systems modeling and design, requirements engineering, knowledge management, and software engineering.