SoSYA - Systems of Systems Analysis

Summary / Zusammenfassung
Given today’s plentitude of software systems, we need to address the complexity of what is called software ecosystems or systems of systems. Such systems of systems and the associated knowledge are the most valuable asset of their owners: they typically form the very basis for the success of companies, organizations, or communities. They have become a reality of the current IT landscape, where companies and open source communities manage in parallel dozens or hundreds of projects belonging to the same product family or IT portfolio. The challenges in this context are not only an exploding amount of information, but also completely novel types of data not taken into account so far: systems have multi-dimensional dependency relationships between them. Indeed, managing the co-evolution of systems, application programming interfaces (APIs), services, and libraries is emerging as one of the next grand challenges of software engineering. We argue that there is a need for novel approaches to analyze systems of systems and to tackle the challenges that they pose.

The goal of this project SoSYA is to build on our previous work on distributed collaborative software analysis in the context of the predecessor project DiCoSA, and to devise theories, models, and prototypes for “systems of systems analysis.” In particular, we will address theories and models for systems of systems, algorithms and techniques for systems of systems analysis, and methods for tangible rendering of systems of systems.

Weitere Informationen unter http://seal.ifi.uzh.ch/projects/

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Other Links to external Webpages / Andere Links zu externen Webseiten
http://evo.inf.usi.ch/sosya/

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