INFORMATIK-KOLLOQUIUM

Der Fachbereich Informatik der Johannes Kepler Universität Linz und das Christian Doppler Labor für Automated Software Engineering laden in Zusammenarbeit mit der Österreichischen Gesellschaft für Informatik (ÖGI) und der Österreichischen Computer Gesellschaft (OCG) zu folgendem Vortrag ein:

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Software Evolution Analysis and Visualization

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Software repositories such as versioning systems, defect tracking systems, and archived communication between project personnel are used to help manage the progress of software projects. There is great potential in mining this information to support the evolution of software systems, improve software design or reuse, and empirically validate novel ideas and techniques. Research is now proceeding to uncover ways in which mining these repositories can help to understand software development, to support predictions about software development, and to plan various evolutionary aspects of software projects. This talk presents some analysis and visualization techniques to understand software evolution by exploiting the rich sources of artifacts that are available. Based on the data models, that need to be developed to cover sources such as modification and bug reports, we describe some of our recent efforts to analyze developer patterns, change couplings, and fine-grained change types.

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