

# Empirical Evaluation of Novel Approaches to Software Engineering

It is a pleasure to present to our readers the first issue of the e-Informatica Software Engineering Journal (ISEJ).

The idea to establish the e-Informatica Software Engineering Journal as a new scientific journal has been considered by Polish academic environment for several years. Finally, it appeared that we are able to start the international software engineering journal with strong support from many recognized researchers and practitioners in Europe who agreed to join the Editorial Board. We would like to express our gratitude to all those involved in many international software engineering conferences, e.g. International Conference on Product Focused Software Process Improvement (PROFES), International Conference on eXtreme Programming and Agile Processes in Software Engineering (XP) or International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE). We also want to thank SIEMENS (<http://www.siemens.pl/>) for sponsoring the journal and many outstanding students involved in e-Informatyka project.

The mission of the e-Informatica Software Engineering Journal is to be a prime international journal to publish research findings and IT industry experiences related to theory, practice and experimentation in software engineering. The scope of e-Informatica Software Engineering Journal includes methodologies, practices, architectures, technologies and tools used in processes along the software development lifecycle, but particular stress is laid on empirical evaluation.

There is evidence that software engineering researchers undertake relatively little empirical validation of their research [1, 2, 3]. Therefore the aim of the journal is to put a strong emphasis on empirical evaluation of novel approaches to software engineering. The journal's emphasis is in line with the ENASE series of conferences started by Leszek Maciaszek and Lech Madeyski (members of the editorial board) and Zbigniew Huzar (Editor-In-Chief) in 2006.

The first issue of the e-Informatica Software Engineering Journal includes five papers carefully reviewed by Editorial Board members, as well as by external reviewers, and then selected by the editors. Addressing the raised empirical validation issue, the first of the papers includes an empirical evaluation of refactoring technique. The second article explores some of the basic tenets of eXtreme Programming (XP) and agile methodologies and presents an analysis of an interview with two of the proponents and early participants in the "Agile revolution", Chet Hendrickson and Ron Jeffries. The third paper analyses to what extent the CMMI process areas can be covered by XP, and where adjustments of XP have to be made. The last two papers do not fall into an agile track. The fourth paper identifies a program verification problem which is caused by the loose conventional object typing/subtyping, introduces object type graphs in which object component interdependencies are integrated into object types, and shows how the problem existing in conventional object type systems can be easily resolved. The last paper presents a user-centered

approach to modelling business processes applying structured use case descriptions. You can download the abstracts and entire articles from the journal web site.

We look forward to receiving quality contributions from researchers in software engineering for the next issue of the journal.

Editors

Zbigniew Huzar

Lech Madeyski

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