УНИВЕРЗИТЕТ У НОВОМ САДУ
ФАКУЛТЕТ ТЕХНИЧКИХ НАУКА

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ИНТЕГРИСАНИ СИСТЕМ МЕНАЏМЕНТА СЕРТИФИКОВАН ОД: ISO 9001, ISO 14001, OHSAS 18001

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174. Sastanak IEEE u Novom Sadu / 174th IEEE Meeting in Novi Sad

Obaveštenje / Announcement

Prof. Dr. Ulrich Frank
University of Duisburg-Essen, Germany

UNIVERSITÄT DUISBURG ESSEN

u **petak, 5. 7. 2019.** u **Svečanoj sali** Fakulteta tehničkih nauka u Novom Sadu, sa početkom u **11:00 h**, održaće

On **Friday, July 5, 2019**, in the **Ceremony Hall** of the Faculty of Technical Sciences Novi Sad at **11:00 am** will deliver

P R E D A V A N J E
L E C T U R E

Multi-Level Language Engineering: A New Paradigm for Conceptual Modelling and Software Development

Višenivoovsko inženjerstvo jezika: Nova paradigma konceptualnog modelovanja i razvoja softvera

Abstract: Model-driven software development is promising attractive benefits. Developers and prospective users can focus on conceptual models rather than on cryptic code, coding principles can be enforced by software generators, and model-driven software architectures allow for a great deal of independence from specific implementation level languages and platforms. They promote the productivity of modelers and programmers, and contribute to system quality, too. Therefore, they are suited to strengthen further the idea of model-driven software development. However, model-driven software within the dominating object-oriented paradigm suffers from serious limitations. A new language paradigm that enables an unlimited number of classification levels, multi-level language engineering, promises to overcome these limitations. It does not only allow for more expressive models, but it also promotes reuse and maintainability as well as user-empowerment. Based on the analysis of problem with the current paradigm, the talk introduces a particular approach to multi-level software engineering that includes a versatile metamodel, various multi-level DSMLs and a language-engineering and execution engine. It allows for the common representation of models and code. As a consequence, there is no need for synchronizing code and models. This talks gives an overview of the motivation and conceptual foundation of multi-level modelling and presents a multi-level language engineering environment that enables the convenient specification and implementation of multi-level modelling and programming languages.

Odsek za primenjene računarske nauke i informatiku

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