



Foredrag ved Muhammed Ali Barbar 27.4.2009

Lokale: 2A12 kl. 16.00.

Approaches and Tools for Designing and Evaluating Quality-Oriented Software Architectures

Abstract

One of the main goals of our research and development effort has been to develop and assess approaches and tools for supporting quality-oriented design and evaluation of software architectures. Over the last few years, we have developed and empirically assessed several approaches and tools to support well-known software architecture design and evaluation methods. These approaches and tools have been found quite useful in improving the software architecture design and evaluation processes during industrial trials. In this talk, I'll describe some approaches and novel, prototype tools for supporting collaborative architecture design and decision making, managing architectural design knowledge, evaluating software architectures of middleware based systems. A brief overview of the aims and major features of the approaches and tools will be presented, and their use in industrial projects and lessons learned will be discussed.

Bio

M. Ali Babar is a Senior Researcher with Lero, the Irish Software Engineering Research Centre, where he leads research in software architecture and empirical assessment of software technologies. Previously, he worked as a researcher with the Empirical Software Engineering (ESE) program of National ICT Australia (NICTA). He has authored/co-authored more than 80 peer-reviewed publications. He is also serving as a co-guest editor for special issues of IEEE Software, JSS, IST, and ESEJ. He has presented tutorials on software architecture evaluation, architecture knowledge management and empirical research methods at various international conferences including ICSE09, XP08, ICSE 2007, SATURN 2007 and WICSA 2007. He has also been involved in the organizations of several international conferences and workshops. Prior to joining R&D field, he worked as a software engineer and an IT consultant for several years in Australia. He obtained a Ph.D. in Computer Science and Engineering from the University of New South Wales, Australia. His current research interests include software product lines, software architecture, software development paradigms, and empirical research.

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