

You are invited to the following RADS seminar:

SPEAKER: Dr. Catia Trubiani
University of L'Aquila, Italy

Interpreting Software Performance Analysis Results by Means of Antipatterns

DATE: Tuesday, June 11, 1:30 pm - 2:30 pm

PLACE: room 4356 ME

ABSTRACT:

The problem of interpreting the results of performance analysis is quite critical in the software performance domain: mean values, variances, and probability distributions are hard to interpret for providing feedback to software architects. Support to the interpretation of such results that helps to fill the gap between numbers and architectural alternatives is still lacking. This talk is aimed at illustrating PANDA (Performance Antipatterns aNd FeeDback in software Architectures), a framework for addressing the results interpretation and feedback generation problems by means of performance antipatterns, that are recurring solutions to common mistakes (i.e. bad practices) in the software development. Such antipatterns can play a key role in the software performance domain, since they can be used in the search of performance problems, as well as in the formulation of their solutions in terms of architectural alternatives.

BIO:

Catia Trubiani is a Research Fellow at the University of L'Aquila where she obtained a Ph.D. degree in Computer Science in April 2011 with a dissertation on the automated generation of architectural feedback from software performance analysis results. During the Ph.D. program she has collaborated with the Imperial College of London and the Karlsruhe Institute of Technology. Previously she had worked at the Electronic Engineering Department of University of Rome Tor Vergata in the Simple Mobile Services EU FP7 project. Her main research interests

include performance analysis and feedback on software architectures, performance antipatterns, and security/performance trade-off in software systems.