Quality-driven development of multi-cloud applications

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Aula Seminari (ex Dip. Elettronica)
Via Ferrata 5 - Pavia

Abstract: The talk will give an overview of the MODAClouds project (www.modaclouds.eu). The main goal of MODAClouds is to provide a decision support system, an open source IDE and a run-time environment for the quality-driven design, prototyping and automatic deployment of applications on multiple clouds. The seminar will discuss in particular the approach to QoS prediction, which is based on LINE, a novel tool to analyze queueing network models immersed in a random environment. Random environments are Markov chain-based descriptions of time-varying operational conditions of a system, a feature that helps in representing exogeneous variability in cloud environments.

Biography: Giuliano Casale received the Ph.D. degree in Computer Engineering from Politecnico di Milano, Italy, in 2006. In 2010 he joined the Department of Computing at Imperial College London, UK, where is currently a Senior Lecturer in modeling and simulation. Previously, he worked as a research scientist at SAP Research UK. He teaches and does research in performance engineering, cloud computing, and operations research. He has served as co-chair for several conferences in the area of performance engineering, including SIGMETRICS/Performance, MASCOTS, ICAC and ICPE. He is member of the IFIP WG 7.3 group on Computer Performance Analysis and serves in the ACM SIGMETRICS Board of Directors.

Organizers
Prof. M. Calzarossa and L. Massari

Ph.D. Coordinator
Prof. P. Di Barba

Seminar in English.
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