Research Seminar Series

Monday, 20 March 2006, 2-2:50pm, Broun 238

Expanding Our Horizons on the Use of Intelligent Agents in Software Engineering

Abstract:
The premise of the agent paradigm, its related theory and methodologies together with advances in modeling of complex systems of interactions opened new frontiers for advancing information sciences and engineering. In this talk our aim is two fold. First, we will overview the fundamental principles and the conceptual framework brought by the agent paradigm. In particular, to make the case for agent-based software engineering, we will discuss the reasons that make agent-based approach an appealing and powerful computational model. Second, a simulation case study pertaining to the use of agents for exploring socio-technical dynamics in software development organizations will be presented. We will conclude by discussing further avenues and limitations of the agent paradigm.

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Reception following in Dunstan Study Lounge