Speaker: Dr. Thomas J. Marlowe (Seton Hall University)

Topic: Inter-Organizational Collaborative Software Development – Challenges and Approaches

Abstract

Inter-organizational, directed collaborative development is of increasing interest and importance. While cooperation has clear economic and technical benefits, there are also numerous less-than-obvious risks and challenges, different from those that characterize more traditional forms of distributed development efforts or open-source development initiatives. We identify and clarify many of these challenges, propose initial solutions for selected problems, and outline a generic framework for analyzing and understanding directed collaborative development. The two most important facets of our approach are, first, hierarchical approaches, which we have developed for risk management and change management, and, second, first-class component interfaces extending the design and implementation interface to support information flow, traceability, change management, knowledge management, and to a lesser extent specialized management contingency policies.

Biography

Thomas J. Marlowe has doctorates in Mathematics (1975) and in Computer Science (1989) from Rutgers University, New Jersey. He is a Professor of Mathematics and Computer Science at Seton Hall University, South Orange, New Jersey, and has written on a variety of topics in mathematics, computer science and information science, including static analysis of programs, real-time systems, computer science pedagogy, and inter-organizational collaborative development. With his collaborators, Vassilka Kirova of Alcatel-Lucent and Mojgan Mohtashami of Advanced Infrastructure Development (both also affiliated with NJIT), and more recently Norbert Jastroch of MET Communications GMbH, he has a continuing research program on inter-organizational collaborative software development, and has published a series of articles on this topic.

All are welcome. For further information, please contact Dr. Cyril S. Ku (ext. 2960), kuc@wpunj.edu