

RADS SEMINAR

SPEAKERS: Dr. John Murphy and Trevor Parsons
University College Dublin, Performance Engineering Laboratory

DATE: Wednesday, July 19, 2006 at 2:00 pm
PLACE: Room 4359 ME

ABSTRACTS

a) **Dr. John Murphy**: Enterprise Performance Engineering

The design and implementation of enterprise software systems with performance requirements is a difficult task, mainly due to the complexity of the software systems. This talk will explore the approach that we are taking by trying to apply some of the work from telecommunications networks to those systems.

b) **Trevor Parson**: Detecting Performance Design and Deployment Antipatterns in Enterprise Systems

In this talk I will present a framework for detecting performance design and deployment antipatterns in component based systems. The framework essentially works by collecting a wide range of data on the running system and analysing this data using a number of advanced analysis techniques to summarise it and find patterns of interest that might suggest sub-optimal design choices. The framework also assesses any problems found in terms of their performance impact on the system (using predefined performance models). I will also be presenting a portable run-time path tracing approach for J2EE systems that our framework uses to collect run-time data on the running system.

SHORT BIOS

Dr. John Murphy is an IBM Faculty Fellow, a Senior Member of the IEEE, a Chartered Engineering and Fellow of the IEI, a Fellow of the Irish Computer Society, as well as a member of the ACM, IEE and a European Engineer with FEANI. He is a member of the IEE Technical Advisory Panel in the Professional Network in "Communications Networks and Services" and was a British Telecommunications Laboratory Short Term Fellow in 1998. He has graduated six Ph.D. students, three research master students and a single diploma student, while he is currently supervising eight Ph.D. students. He has won competitive project funding of Euro 2,322,000 in the last five years with eleven grants. Dr. Murphy is the author or co-author of over 100 technical papers on performance engineering. Dr. John Murphy is currently a senior lecturer in the school of Computer Science and Informatics at University College Dublin.

Trevor Parsons is a PhD student in the School of Computer Science and Informatics at University College Dublin and a member of the University's Performance Engineering Laboratory. Contact him at trevor.parsons@ucd.ie.