

**IEEE CSMR 07- Special Session on System Quality and Maintainability**  
*"Bridging the gap between end user expectations, vendors' business prospects, and software engineers' requirements on the ground."*

<http://www.ru5.cti.gr/SQM07>

**Amsterdam, 20<sup>th</sup> March 2007**

Summary Description

**Background**

Many views have been expressed about software quality attributes, including maintainability, evolvability, portability, robustness, reliability, usability, and efficiency. These have formulated standards such as the ISO/IEC-9126 and the CMM. However, the debate about quality and maintainability between software producers, vendors and users is ongoing, while organizations need the ability to evaluate, from multiple angles, the software systems that they use or develop. So, is "*Software quality in the eye of the beholder*"?

This special session aims at feeding into this debate by establishing what the state of the practice and the way forward is.

**Programme**

The session brings together research and empirical contributions in areas including: Software quality attributes and measurement, Software quality assessment practice and automation, process monitoring, Software maintainability and quality standards. The provisional programme includes the following presentations:

- J. Moses, "Should We Try to Measure Software Quality Attributes Directly?"
- P. Johnson, R. Lagerstrom, P. Narman and M. Simonsson, "System Quality Analysis with Extended Influence Diagrams".
- H. J. van den Brink, R. C. van der Leek, "Quality metrics for SQL queries embedded in host languages"
- T. Kuipers, "Maintainability Index Revisited".
- P. Antonellis, D. Antoniou, E. Theodoridis, Y. Kanellopoulos, C. Makris, C. Tjortjis, N. Tsirakis, "A Data Mining Methodology for Evaluating Maintainability according to ISO/IEC-9126 Software Engineering-Product Quality Standard".
- N. Boffoli, D. Caivano, "Toward a Process Monitoring Automation: a Proposal".
- J. Borchers, "Critical Success Factors for the Acceptance Testing of redeveloped Application Systems Experiences from a large industrial Project".

**Special session organisers**

Session Chair:	C. Tjortjis (University of Manchester, U.K.)
Programme Chair:	C. Makris (University of Patras, Greece)
Session Vice-Chair:	Y. Kanellopoulos (University of Manchester, U.K.)
Publicity chair:	N. Tsirakis (University of Patras, Greece)

Organising and Local Arrangements Committee

P. Antonelis, (University of Patras, Greece)  
D. Antoniou, (University of Patras, Greece)  
E. Sakkopoulos, (Univ. of Patras & RA CTI, Greece)  
E. Theodoridis, (University of Patras, Greece)

Programme Committee members

D. Caivano (University of Bari, Italy)  
P. Sampaio (University of Manchester, U.K.)  
A. Tsakalidis (University of Patras, Greece)  
V. Tzerpos (University of York, Canada)  
A. Zarras (University of Ioannina, Greece)

**Organisers' biographies**

**Christos Tjortjis** is a Lecturer at the School of Computer Science, University of Manchester, and a part time lecturer at the Nottingham Business School, Nottingham Trent University, U.K. He was awarded a *DEng* in Computer Engineering and Informatics from the Department of Computer Engineering & Informatics at the University of Patras, and a *BSc* in Law from the Law School of Democritus University of Thrace, Greece. After gaining industrial experience as a consultant, he moved to Manchester, U.K. at the Department of Computation, UMIST, for an *MPhil* in Computation and subsequently a *PhD* in Informatics. He worked there as a Research Associate, an Honorary Lecturer and a Lecturer, before he was granted tenure and subsequently moved to the School of Computer Science. His research interests are in the areas of data mining, software quality, maintenance and evolution, where he has published widely.

**Christos Makris** is an Assistant Professor at the Department of Computer Engineering & Informatics at the University of Patras, Greece. He graduated from the Department of Computer Engineering and Informatics, School of Engineering, University of Patras, in December 1993. He received his *Ph.D.* degree from the Department of Computer Engineering and Informatics, in 1997. His research interests include Data Structures, Web Algorithmics, Computational Geometry, Data Bases and Information Retrieval. He has published over 40 papers in various scientific journals and refereed conferences.