Monday, May 18, 2009

**Keynote:** Future Challenges for Software Data Collection and Analysis
Barry Boehm

**Session 1: Experimental Process**
- Can We Build Software Faster and Better and Cheaper?  
  Tim Menzies, Ousama Elwaras, Jairus Hihn, Barry Boehm
- A Tree-Based Approach to Preserve Privacy of Software Engineering Data and Predictive Models  
  Yu Fu, A. Gunes Koru, Zhiyuan Chen, Khaled El Emam
- Why Comparative Effort Prediction Studies may be Invalid  
  Barbara Kitchenham, Emilia Mendes

**Session 2: Defect Prediction**
- Validation of Network Measures as Indicators of Defective Modules in Software Systems  
  Ayse Tosun, Burak Turhan, Ayse Bener
- A Bayesian Network Approach to Assess and Predict Software Quality Using Activity-Based Quality Models  
  Stefan Wagner
- Revisiting the Evaluation of Defect Prediction Models  
  Thilo Mende, Rainer Koschke

**Session 3: Effort Estimation**
- Software Effort Estimation Based on Weighted Fuzzy Grey Relational Analysis  
  Mohammad Azzeh, Daniel Neagu, Peter Cowling
- Convertibility of Functional Size Measurements: New Insights and Methodological Issues  
  Luigi Lavazza

**Session 4: Industry**
- Practical Considerations of Deploying AI in Defect Prediction: A Case Study within the Turkish Telecommunication Industry  
  Ayse Tosun, Ayse Bener, Burak Turhan

Tuesday, May 19, 2009

**Keynote:** Developing accurate risk models requires mathematics, domain knowledge and common sense, although not necessarily in that order  
Brendan Murphy

**Session 4: Industry**
- Practical Considerations of Deploying AI in Defect Prediction: A Case Study within the Turkish Telecommunication Industry  
  Ayse Tosun, Ayse Bener, Burak Turhan

**Session 5: Machine Learning**
- Classification of Tasks Using Machine Learning  
  Bernd Bruegge, Joern David, Jonas Helming, Maximilian Koegel
  Jamie Andrews, Tim Menzies

**Invited Presentation:** From Software Engineer to Day Trader in 3 Easy Steps: A Comparison of Software Engineering Data Mining with Financial Data Mining  
Gary Boetticher

**Session 6: Repeatability and Open Source**
- How to Build Repeatable Experiments  
  Gregory Gay, Tim Menzies, Bojan Cukic, Burak Turhan
- Building Statistically Significant Robust Regression Models in Empirical Software Engineering  
  Sandro Morasca

**Session 7: Modeling**
- Using Uncertainty as a Model Selection and Comparison Criterion  
  Salvatore Alessandro Sarcia, Victor Robert Basili, Giovanni Camione
- Misclassification cost-sensitive fault prediction models  
  Yue Jiang, Bojan Cukic