PROMISE 2009 Program

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

Predicting PROMISE: **A discussion of the future, led by Guenther Ruhe**

Click on a title to see the paper

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

On the Value of Combining Feature Subset Selection with Genetic Algorithms: Faster Learning of Coverage Models
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

Modeling Success in FLOSS Project Groups
Justin Beaver, Xiaohui Cui, Jesse St. Charles, Thomas Potok

Fault Detection and Prediction in an Open-Source Software Project
Michael English, Chris Exton, Irene Rigon, Brendan Cleary

Session 7: Modeling

Using Uncertainty as a Model Selection and Comparison Criterion
Salvatore Alessandro Sarcia, Victor Robert Basili, Giovanni Cantone

Building Statistically Significant Robust Regression Models in Empirical Software Engineering
Sandro Morasca

Misclassification cost-sensitive fault prediction models
Yue Jiang, Bojan Cukic.