The METRICS Program

MARCH 25

REGISTRATION — 7:30 – 9:00

OPENING REMARKS — 9:00 – 9:30
Anneliese von Mayrhauser, General Chair

KEYNOTE SESSION — 9:30 – 10:30
Shari Pfleeger, Systems/Software, Inc. “Why are You Doing That? How Do You Know?”

BREAK — 10:30 – 11:00

THEORETICAL FOUNDATIONS — 11:00 – 12:30
Boris I. Cogan, Institute for Automation and Control Processes; Robin B. Hunter, University of Strathclyde.
“Language-Based Approaches to Software Measurement”

Günther Ruhe, Institute for Experimental Software Engineering, Kaiserslautern.
“Rough Set-Based Data Analysis in Goal-Oriented Software Measurement”

Franck Xia, University of Macau
“An Information Coding Based Data Complexity Model”

LUNCH — 12:30 – 2:00

EXPERIENCE REPORTS — 2:00 – 3:30
Alfred Brockers, AG Software Engineering; Christiane Differding, University of Kaiserslautern; Günter Threin, Robert Bosch GmbH.
“The Role of Software Process Modeling in Planning Industrial Measurement Programs”

John C. Munson and Darrell S. Wories, University of Idaho
“Measuring Software Evolution”

Guiseppe Visaggio, Università di Bari
“Quality Improvement in an Immature Software Industry”

BREAK — 3:30 – 4:00

OBJECT-ORIENTED METRICS — 4:00 – 5:30
Jean Mayrand and François Guay, Bell Canada; Ettore M. Merlo, École Polytechnique.
“Inheritance Graph Assessment Using Metrics”

Karin Erni, ABB Corporate Research; Claus Lewerentz, Cottbus Technical University.
“Applying Design-Metrics to Object-Oriented Frameworks”

Horst Zuse, Technische Universität Berlin.
“Foundations of Object-Oriented Software Measures”
MARCH 26

EMPIRICAL STUDIES — 9:00 – 10:30
Fernando Brito e Abreau, ISEG/Lisbon Technical University and INESC; Walcélvio Melo, University of Maryland.
“Evaluating the Impact of Object-Oriented Design on Software Quality”

Patricia McCarthy, Adam Porter and Harvey Siy, University of Maryland; Lawrence G. Votta, Jr., AT&T Bell Laboratories.
“An Experiment to Assess Cost-Benefits of Inspection Meetings and their Alternatives: A Pilot Study”

Lutz Prechelt and Walter F. Tichy, Universität Karlsruhe.
“An Experiment to Assess the Benefits of Inter-Module Type Checking”

BREAK — 10:30 – 11:00

SOFTWARE RELIABILITY — 11:00 – 12:30
Tsuneco Furuyama, NTT Software Laboratories.
“Parameter Estimation of the Manifold Growth Model by Using Z-Graph”

Mei-Hwa Chen, SUNY at Albany; Michael R. Lyu, AT&T Bell Labs; W. Eric Wong, Bellcore.
“An Empirical Study of the Correlation between Code Coverage and Reliability Estimation”

Norman F. Schneidewind, Naval Postgraduate School.
“Reliability and Risk Analysis for Software that Must be Safe”

LUNCH — 12:30 – 2:00

TESTING — 2:00 – 3:30
“Assessing Neural Networks as Guides for Testing Activities”

R. I. O. R. Webby, and R. Jeffery, University of New South Wales.
“Sizing and Estimating the Coding and Unit Testing Effort for GUI Systems”

Christof Ebert, Alcatel SEL AG.
“Evaluation and Application of Complexity-Based Criticality Models”

BREAK — 3:30–4:00

MINI-TUTORIAL SESSION — 4:00– 6:00
Adam Porter and Harvey Siy, University of Maryland; Lawrence G. Votta, Jr., AT&T Bell Labs.