

**Tuesday 20 March 2007**

**Workshops CSMR**

<b>Morning</b>	9.00-12.30	Web Maintenance and Reengineering
<b>Morning</b>	9.00-12.30	Workshop on Model-Driven Software Evolution
<b>Afternoon</b>	14.00-17.30	System Quality and Maintainability
<b>Afternoon</b>	14.00-17.30	Research Agenda for Service-Oriented Architecture Maintenance

**Wednesday 21 March 2007**

**Chair**

Rene Krikhaar	8.30-9.00	Opening
Chris Verhoef	9.00-10.00	<b>Keynote Dr. Jan Pieter Herweijer</b>

Giuseppe Di Lucca	10.30 -12.00	<b>Technical Session 1: Maintenance Changes</b> A Case Study of Defect-Density and Change-Density and their Progress over Time <i>Anita Gupta, Odd Petter N. Slyngstad, Reidar Conradi, Parastoo Mohagheghi, Harald Rønneberg, and Einar Landre</i> Consistently Incorporating Changes to Evolve Transition-Based Systems <i>Mahadevan Subramaniam and Harvey Siy</i> A Probabilistic Approach to Predict Changes in Object-Oriented Software Systems <i>Ali R. Sharafat and Ladan Tahvildari</i>
	12.00-13.30	<b>LUNCH</b>
Bart Du Bois	13.30-15.30	<b>Industry Track</b> An Experience in Introducing a New Control Platform on a Legacy System <i>Eric Suijs</i> Software Configuration Management, Fundament for Evolution of Large Existing Code Bases <i>Bart Leeten</i> Testing Techniques for the Cross-Platform Migration of Very Large Interactive Applications <i>Louis Heymans, Tony Van der Beken, and Ben Wilson</i>
	16.00-17.30	<b>Technical Session 2: Components and Objects</b> Towards Automated Restructuring of Object Oriented Systems <i>Adrian Trifu and Urs Reupke</i> A Feature-Oriented Adaptive Component Model for Dynamic Evolution <i>Xin Peng, Yijian Wu, and Wenyun Zhao</i> A Maintenance Oriented Framework for Software Components Characterization <i>Pasquale Ardimento, Giovanni Bruno, Danilo Caivano, and Giuseppe Visaggio</i>
	19.00	<b>Reception</b>

Thursday 22 March 2007

- 9.00-10.30 **Technical Session 3: Dependency Analysis**  
Metamodel-Based Inference of Inter-Model Correspondence  
*Petri Selonen and Markus Kettunen*  
How Clones are Maintained: An Empirical Study  
*Lerina Aversano, Luigi Cerulo, and Massimiliano Di Penta*  
Exploring Inter-Module Relationships in Evolving Software Systems  
*Mircea Lungu and Michele Lanza*
- 9.00-10.30 **Technical Session 4: Maintenance with Dynamics**  
The Dynamic Function Coupling Metric and its Use in Software Evolution  
*Árpád Beszédés, Tamás Gergely, Szabolcs Faragó, Tibor Gyimóthy, and Ferenc Fischer*  
Online Construction of Dynamic Object Process Graphs  
*Jochen Quante*  
Incremental Specification Validation and Runtime Adaptivity of Distributed Component Information Systems.  
*Nasreddine Aoumeur, Kamel Barkaoui, Gunter Saake*
- 11.00-12.30 **Technical Session 5: Architecture**  
Towards a Process-Oriented Software Architecture Reconstruction Taxonomy  
*Damien Pollet, Stéphane Ducasse, Loïc Poyet, Ilham Alloui, Sorana Cimpan, and Hervé Verjus*  
High-Impact Refactoring Based on Architecture Violations  
*Fabrice Bourquin and Rudolf K. Keller*  
Restructuring Variability in Software Product Lines Using Concept Analysis of Product Configurations  
*Felix Loesch and Erhard Plöedereder*
- 11.00-12.30 **Technical Session 6: Web Applications**  
Sizing Maintenance Tasks for Web Applications  
*Harry M. Sneed and Shihong Huang*  
Migrating Multi-Page Web Applications to Single-Page AJAX Interfaces  
*Ali Mesbah and Arie van Deursen*  
Automated Protection of PHP Applications Against SQL-Injection Attacks  
*Ettore Merlo, Dominic Letarte, and Giuliano Antoniol*
- Bart du Bois 12.30-13.00 **Tool Track (short presentations)**  
MetricViewEvolution: UML-Based Views for Monitoring Model Evolution and Quality  
*Christian F.J. Lange, Martijn A.M. Wijns, and Michel R.V. Chaudron*  
API Changes — How Far Would You Go?  
*Ilie Savga, Michael Rudolf, Jacek Śliwerski, Jan Lehmann, and Harald Wendel*  
Using the Meta-Environment for Maintenance and Renovation  
*M.G.J. van den Brand, M. Bruntink, G.R. Economopoulos, H.A. de Jong, P. Klint, T. Kooiker, T. van der Storm, and J.J. Vinju*  
BugCrawler: Visualizing Evolving Software Systems  
*Marco D'Ambros and Michele Lanza*  
The Sisyphus Continuous Integration System  
*Tijs van der Storm*  
A Multi-view Toolkit to Assist Software Integration and Evolution.  
*Kamran Sartipi*
- 12.30-14.00 **Lunch + Tool Demo**
- 14.00-15.30 **Technical Session 7: Quality**  
Integrating and Testing a System-Wide Feature in a Legacy System: An Experience Report  
*Teemu Kanstrén, Mika Hongisto, and Kari Kolehmainen*  
Visualizing Testsuites to Aid in Software Understanding  
*Bas Cornelissen, Arie van Deursen, Leon Moonen, and Andy Zaidman*  
Evolution from a Scientific Application to an Applicable Product  
*Matthias Wagner*
- Elliot Chikofsky 16.00-17.30 **Stevens Lecture**  
Nicholas Zvegintzov  
*Software Development Methods*
- 19.00 **Conference Diner**

**Friday 23 March 2007**

	9.00-10.30	<b>Technical Session 8: Static Analysis</b> Verifying the Concept of Union Slices on Java Programs <i>Attila Szegedi, Tamás Gergely, Árpád Beszédés, Tibor Gyimóthy, and Gabriella Tóth</i> Migration of Common Lisp Programs to the Java Platform—The Linj Approach <i>António Menezes Leitão</i> Static Analysis of Programs with Graphical User Interface <i>Stefan Staiger</i>
	11.00-12.30	<b>Technical Session 9: Features</b> How Developers Develop Features. <i>Orla Greevy, Tudor Girba, and Stéphane Ducasse</i> Example-Driven Reconstruction of Software Models <i>Oscar Nierstrasz, Markus Kobel, Tudor Girba, Michele Lanza, and Horst Bunke</i>
Arie van Deursen	9.00-11.00	<b>Doctoral Symposium</b> Supporting Reliable Software Evolution through Program Analysis <i>Cathal Boogerd</i> Dynamic Object Process Graph Extraction for Program Understanding and Protocol Recovery <i>Jochen Quante</i> Monitoring Requirements Evolution Using Views <i>Marco Lormans</i> Automated Mass Maintenance of Software Assets <i>Niels Veerman</i> Model-Driven Evolution of Software Architectures <i>Bas Graaf</i> Software Quality Attribute Analysis by Architecture Reconstruction (SQUA3RE) <i>Christoph Störmer</i>
	12.30-13.30	<b>Lunch</b>
	13.30-15.00	<b>Technical Session 10: Recovery</b> An Approach for Mining Services in Database-Oriented Applications <i>Concettina Del Grosso, Massimiliano Di Penta, and Ignacio Garcia-Rodriguez de Guzman</i> A Two Phase Approach to Design Pattern Recovery <i>Andrea De Lucia, Vincenzo Deufemia, Carmine Graviono, and Michele Risi</i> The Reality of Libraries <i>Daniel Ratiu and Jan Jürjens</i>
Rene Krikhaar	15.00-15.30	<b>Closing</b>