



**RISE/EFTS Joint International Workshop on
Software Engineering for Resilient Systems**

November 17-19, 2008

Newcastle upon Tyne (UK)

Workshop Program

PROGRAM CHAIRS

Nicolas Guelfi

Henry Muccini

Patrizio Pelliccione

Alexander Romanovsky

November 17, 2008

Welcome and introduction by the chairs

→ 13:30 - 13:45 (15 min)

Nicolas Guelfi (University of Luxembourg, LUXEMBOURG)

Henry Muccini (University of L'Aquila, ITALY)

Patrizio Pelliccione (University of L'Aquila, ITALY)

Alexander Romanovsky (Newcastle University, UK)

Keynote Talk 1 - chair: Alexander Romanovsky

→ 13:45 - 15:00 (1 hour + 15 min)

"System Complexity, Dependability and Failures"

Brian Randell

→ 15:00 - 15:30 (30 min)

Coffee break

Technical session: Architectures and modelling - chair: Paris Avgeriou

→ 15:30 - 16:00 (30 min)

"A Resilient Architecture for DHT-based Distributed Collaborative Environments"

Simone Cirani, Natalya Fedotova, Luca Veltri

→ 16:00 - 16:30 (30 min)

"Incorporating Fault Tolerance Tactics in Software Architecture Patterns"

Neil Harrison, Paris Avgeriou

→ 16:30 - 17:00 (30 min)

"Addressing Degraded Service Outcomes and Exceptional Modes of Operation in Behavioural Models"

Sadaf Mustafiz, Jörg Kienzle, Andrey Berlizev

Discussion

→ 17:00 - 17:30 (30 min)

Day-1 Close

November 18, 2008

The SERENE ERCIM working group Report - chair: Nicolas Guelfi

→ 9:00 - 9:15 (15 min)

Keynote Talk 2 - chair: Henry Muccini

→ 9:15 - 10:30 (1 hour + 15 min)

"Challenges and Results in Component Quality Certification"

Ralf Reussner

→ 10:30 - 11:00 (30 min)

Coffee break

Technical session: Mobility - chair: Giovanna di Marzo

→ 11:00 - 11:30 (30 min)

"An Integrated Framework for the Dependability Evaluation of Distributed Mobile Applications"

Máté Kovács, Paolo Lollini, István Majzik, Andrea Bondavalli

→ 11:30 - 12:00 (30 min)

"Formal development of cooperative exception handling for mobile agent systems"

Linus Laibinis, Elena Troubitsyna, Alexei Iliasov, Alexander Romanovsky

Discussion

→ 12:00 - 12:30 (30 min)

→ 12:30 - 14:00

Lunch

Experience/Industry session - chair: Patrizio Pelliccione

→ 14:00 - 14:30 (30 min)

"The Threat of Uncertainty in Service-Oriented Architecture"

Anatoliy Gorbenko, Vyacheslav Kharchenko, Olga Tarasyuk, Yuhui Chen, Alexander Romanovsky

→ 14:30 - 15:00 (30 min)

"Experiences in Engineering Active Replication into a Traditional Three-tiered Client-server System"

Gabriel Zenarosa, Soumya Simanta

→ 15:00 - 15:30 (30 min)

"Supporting Resilience in Air Traffic Management"

Massimo Felici, Valentino Meduri, Alessandra Tedeschi, Carlo Riccucci

→ 15:30 - 16:00 (30 min)

Coffee break

PhD Forum papers: session 1 - chair: Henry Muccini

→ 16:00 - 16:30 (30 min)

"Development of a Formalism for Modelling and Analysis of Dynamic Reconfiguration of Dependable Real-Time Systems: A Technical Diary"

Anirban Bhattacharyya, John Fitzgerald

→ 16:30 - 17:00 (30 min)

"RPL: A Policy Language For Dynamic Reconfiguration"

Richard Payne

Discussion

→ 17:00 - 17:30 (30 min)

Serene Social Program

→ 19:30

SERENE dinner at the Grainger Rooms

The Grainger Rooms

7 Higham Place

Newcastle-Upon-Tyne

NE1 8AF

Day-2 Close

November 19, 2008

Technical session: Construction of and reasoning about resilient systems - chair: Alexander Romanovsky

→ 9:00 - 9:30 (30 min)

"An Evolving Hierarchical & Modular Approach to Resilient Software"

Fernando Barros

→ 9:30 - 10:00 (30 min)

"Towards Reasoning about Teleo-Reactive Programs for Robust Real-Time Systems"

Ian Hayes

Discussion

→ 10:00 - 10:30 (30 min)

→ 10:30 - 11:00 (30 min)

Coffee break

PhD Forum papers: session 2 - chair: Nicolas Guelfi

→ 11:00 - 11:30 (30 min)

"A Reconfigurable Component Model Using Reflection"

James Hawthorne, Richard Anthony

→ 11:30 - 12:00 (30 min)

"Resilience through Dynamic Reconfiguration in Agent Systems"

Ilya Lopatkin

→ 12:00 - 12:30 (30 min)

"Extended Exceptions for Contingencies"

Thorsten van Ellen, Wilhelm Hasselbring

Project papers - chair: John Fitzgerald

→ 12:30 - 12:50 (20 min)

"DEPLOY: Industrial Deployment of Advanced System Engineering Methods for High Productivity and Dependability"

Alexander Romanovsky

→ 12:50 - 13:10 (20 min)

"Services for Fault-Tolerant Conflict Resolution in Air Traffic Management"

Henrique Moniz, Paolo Masci, Alessandra Tedeschi

Discussion

→ 13:10 - 13:30 (20 min)

Day-3 Close

Wrap up