Wednesday 12th October

08:45 Registration

09:15 Welcome — Nigel Thomas,
Newcastle University

09:30 Invited talk

> *Engineering of Self-Aware IT Systems and Services: State-of-the-Art*
>   Samuel Kounev

10:30 Coffee break

11:00 Session 1 — Stephen Gilmore,
University of Edinburgh

> *Comparison of the mean-field approach and simulation in a peer-to-peer botnet case study*
>   Anna Kolesnichenko, Anne Remke, Pieter-Tjerk De Boer and Boudewijn Haverkort
>
> *Stochastic Restricted Broadcast Process Theory*
>   Fatemeh Ghassemi, Mahmoud Talebi, Ali Movaghar and Wan Fokkink
>
> *Higher moment analysis of a spatial stochastic process algebra*
>   Marcel Guenther and Jeremy Bradley

12:30 Lunch

13:30 Session 2 — Pieter-Tjerk de Boer,
University of Twente

> *Accommodating short and long web traffic flows over a DiffServ architecture*
>   Salvador Alcaraz, Katja Gilly, Carlos Juiz and Ramon Puigjaner

Formal Mapping of WSLA Contracts on Stochastic Models   Rouaa Yassin Kassab and Aad van Moorsel
Optimization for Multi-Thread Data Flow Software   Helmut Hlavacs and Michael Nussbaumer

15:15 Social event

18:00 Poster session

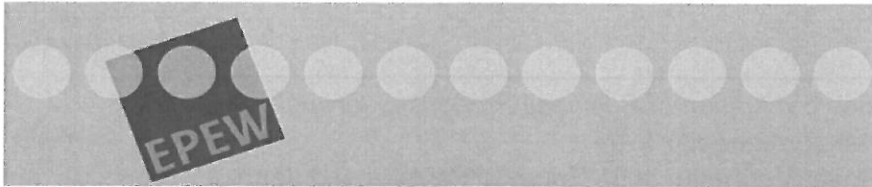| |
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| *Can Linear Approximation Improve Performance Prediction?*
    Vlastimil Babka and Petr Tůma |
| *TwoEagles: A Model Transformation Tool from Architectural Descriptions to Queueing Networks*
    Marco Bernardo, Vittorio Cortellessa and Mirko Flamminj |
| *A tool suite for modelling spatial interdependencies of distributed systems with Markovian Agents*
    Davide Cerotti, Enrico Barbierato and Marco Gribaudo |
| *A Grid Broker Pricing Mechanism for Temporal and Budget Guarantees*
    Richard Kavanagh and Karim Djemame |
| *Visualisation for Stochastic Process Algebras: The Graphic Truth*
    Michael Smith and Stephen Gilmore |
| *Efficient Experiment Selection in Automated Software Performance Evaluations*
    Dennis Westermann, Rouven Krebs and Jens Happe |

19:30 Dinner

Thursday 13th October

09:00 Invited talk

Performance Engineering for Cloud Computing
    John Murphy

10:00 Session 3   Nigel Thomas,
                                                              Newcastle University

Automatic Synchronisation Detection in Petri Net
Performance Models Derived from Location Tracking Data
    Nikolas Anastasiou, William Knottenbelt and Andrea
    Marin

10:30 Coffee break

11:00 Session 4   Richard Hayden,
                                                              Imperial College London

Monotonicity and Efficient Computation of Bounds with
Time Parallel Simulation
    Jean-Michel Fourneau and Franck Quessette

On Stochastic Fault-Injection for IP-Packet Loss Emulation
    Philipp Reinecke and Katinka Wolter

Critical level policies in lost sales inventory systems with
different demand classes
    Aleksander Wieczorek, Ana Busic and Emmanuel Hyon

12:30 Lunch

14:00 Session 5   Jean-Michel Fourneau
                                                       University of Versailles

Performance Evaluation of Business Processes through a Formal Transformation to SAN   Kelly Rosa Braghetto, João Eduardo Ferreira and Jean-Marc Vincent
Model-based Evaluation and Improvement of PTP Syntonisation Accuracy in Packet-Switched Backhaul Networks for Mobile Applications   Katinka Wolter, Philipp Reinecke and Alfons Mittermaier
RIOT - A Parallel Input/Output Tracer   Steven Wright, Simon Pennycook, Simon Hammond and Stephen Jarvis

15:30 Break

16:00 Session 6   Nigel Thomas,
                                                       Newcastle University

Analysis of Gossip-based Information Propagation in Wireless Mesh Networks   Abolhassan Shamsaie, Wan Fokkink and Jafar Habibi
Multi-class Network with Phase Type Service Time and Group Deletion Signal   Thu Ha Dao Thi, Jean-Michel Fourneau and Minh Anh Tran
WMTrace - A Lightweight Memory Allocation Tracker and Analysis Framework   Oliver Perks, Simon Hammond, Simon Pennycook and Stephen Jarvis

17:30 Close

19:30 Dinner