

HET-NETs 2010

6TH WORKING INTERNATIONAL CONFERENCE ON Performance Modelling and Evaluation of Heterogeneous Networks

Zakopane, Poland, January 14-16th, 2010

CONFERENCE PROGRAMME

Thursday 14.01.2010

9.00 Welcome

9.15 – 10.00 Erol Gelenbe
Key-note speech: *Steps towards self-aware networks*

10.00 – 10.15 Coffee break

10.15 – 11.00 Michał Pióro
Key-note speech: *On the notion of max-min fairness and its applications to routing optimization*

11.00 – 13.00 Session C **Network Management & Optical Networks**
coffee break at 12.15

1. Tülin Atmaca, Thierry Eido, Tuan Dung Nguyen
Performance comparison between Optical Ring Architectures with Variable-Size Vs Fixed-size Packets

2. Christian Callegari, Stefano Giordano, Michele Pagano, and Teresa Pepe
On the Use of bzip2 for Network Anomaly Detection

3. Adam Grzech, Piotr Rygielski, Paweł Świątek
QoS-aware infrastructure resources allocation in systems based on service-oriented architecture paradigm

4. Krzysztof Łoziak
Fast Transition integrated into Media Independent Handover compliant network

5. Ivan Kotuliak, Eugen Mikóczy
Different approaches of NGN and FGI

6. Yong Yao, David Erman
PlanetLab Automatic Control System

13.15 – 14.15 Lunch

14.15 – 15.00 Vincente Casares-Giner
Key-note speech: *Mobility models for mobility management*

15.00 – 15.15 Coffee break

15.15 – 18.00 Session A– **Flow control and buffer management**

1. Jerzy Klamka, Jolanta Tańcula

Examination of robust stability of computer networks

2. Adam Grzech, Piotr Rygielski, Paweł Świątek

Simulation environment for delivering quality of service in systems based on service-oriented architecture paradigm

3. Janusz Gozdecki

Decreasing delay bounds for a DiffServ network using leaky bucket shaping for EF PHB aggregates

4. Walenty Oniszczyk

A Markov model of multi-server system with blocking and buffer management

5. Andrzej Chydziański

Optimization problems in the theory of queues with dropping functions

6. Joanna Domańska, Adam Domański, Dariusz Augustyn
Active Queue Management with non linear packet dropping function

7. Mateusz Nowak, Piotr Pecka
QoS management for multimedia traffic in synchronous slotted-ring OPS networks

coffee break at 16.45

19.00 Conference dinner

Friday 15.01.2010

9.00 – 9.45 Udo Krieger
Key-note speech: *Modelling and Analysis of Triple Play Services in Multimedia Internet*

9.45 – 10.30 Jean Michel Fourneau
Key-note speech: *Stochastic bounds for Markov chains and how to use them for performance evaluation*

10.30 – 10.45 Coffee break

10.45 – 13.00 Session B **Traffic measurements and models**

1. Leszek Borzemski, Marek Rodkiewicz, Gabriel Starczewski
Internet distance measures in goodput performance prediction

2. Arkadiusz Biernacki, Thomas Bauschert, Thomas Martin Knoll
BitTorrent Based P2P IPTV Traffic Modelling and Generation

3. Piotr Wiśniewski, Piotr Krawiec
Scenarios for Virtual QoS Link implementation in IP networks

4. Philipp Eittenberger, Udo R. Krieger, Natalia M. Markovich
Measurement and Analysis of Live-Streamed P2PTV Traffic

5. Sławomir Nowak, Przemysław Głomb
Remote Virtual Reality: Experimental Investigation of Progressive 3D Mesh Transmission in IP Networks

6. Adam Józefiok, Tadeusz Czachórski, Krzysztof Grochla
Performance evaluation of multiuser interactive networking system

10.45 – 13.00 Session D – **Analytical models**
coffee break at 11.30

1. Damian Parniewicz, Maciej Stasiak and Piotr Zwierzykowski
Analytical modeling of the multicast connections in mobile networks

2. Maciej Drwal, Leszek Borzemski
Statistical analysis of active web performance measurements

3. Alexandru Popescu, David Erman, Markus Fiedler, Demetres Kouvatsos
A Multi-Dimensional CAN Approach to CRN Routing

4. Said Ngoga, David Erman, Adrian Popescu
Predictive Models for Seamless Mobility

5. Krzysztof Zajda

Evaluation of possible applications of dynamic routing protocols for load balancing in computer networks.

6. Mariusz Głabowski, Maciej Sobieraj

Effective-availability methods for point-to-point blocking probability in switching networks with BPP traffic and bandwidth reservation

7. Simonetta Balsamo, Gian-Luca Dei Rossi, Andrea Marin

A tool for the numerical solution of cooperating Markov chains in product-form

13.00 – 14.00 Lunch

14.00 – 14.45 Demetres Kouvatsos

Key-note speech: ***On the generalisation of the Zipf-Mandelbrot distribution and its application to the study of queues with heavy tails***

14.45 – 15.00 Coffee break

15.00 – 18.00 Session E **Wireless Networks**

coffee break at 16.30

1. Jallel Ben-Othman, Serigne Diagne, Lynda Mokdad, Bashir Yahya

Performance Evaluation of a Medium Access Control Protocol for Wireless Sensor Networks Using Petri Nets

2. Jerzy Martyna

The Throughput Maximization in the MIMO-OFDMA Systems

3. Koen De Turck, Marc Moeneclaey, Sabine Wittevrongel

Moderate deviations of retransmission buffers over a wireless fading channel

4. Maciej Rostański, Piotr Piekiewicz

TCP Congestion Control Algorithms in 3G networks from moving end-user perspective

5. Agnieszka Brachman, Zbigniew Łaskarzewski, Łukasz Chróst

Analysis of transmission errors in 869.4-869.65 MHz frequency band

6. Zbigniew Łaskarzewski, Agnieszka Brachman

Measurement based model of wireless propagation for short range transmission

7. Krzysztof Grochla, Krzysztof Stasiak

Self healing in wireless mesh networks by channel switching

8. Tadeusz Czachórski, Krzysztof Grochla, Tomasz Nycz, Ferhan Pekergin

Modeling the IEEE 802.11 Networks MAC Layer Using Diffusion Approximation

Saturday 16.01.2010

Mountain excursion