

Technical Program

Session 1: Multimedia Services

- The IMS Playground @ FOKUS - An Open Testbed for Next Generation Network Multimedia Services

T. Magedanz, D. Witaszek, and K. Knuettel

- Performance Evaluation of Recovery Techniques in a Grid Oriented Metrocore/VESPER Field Trial

D. Adami, S. Giordano, M. Repeti, P. Castoldi, F. Cugini, and L. Valcarenghi

- A Testbed and Research Network for Next Generation Services over Next Generation Networks

B. Ionescu, M. Ionescu, S. Veres, D. Ionescu, F. Cuervo, and M. Luiken-Miller

- An Experience in IPv6 Networking Supporting *Ecumene* Web Information System for Cultural Heritage

C. Florida, S. Giordano, S. Lucetti, and A. Tomasi

Session 2: Ubiquitous Services

- Design Considerations on the CREATE-NET Testbed

R. Grasso, I. Carreras, C. Kiraly, H. Woesner, Y. Ye, S. Pera, and C. Szabó

- Ubiquitous Home: Real-life Testbed for Home Context-Aware Service

T. Yamazaki

- A Testbed for Evaluating Human Interaction with Ubiquitous Computing Environments

D. Lewis, E. O'Neill, T. O'Donnell, M. Klepal, D. O'Sullivan, and D. Pesch

Session 3: Wireless Testbeds and New Capabilities

- An Open Access Wideband Multi-Antenna Wireless Testbed with Remote Control Capability

W. Zhu, D. Browne, and M. Fitz

- A Geography-Aware Scalable Community Wireless Network Test Bed

B.-N. Cheng, M. Klein, and S. Kalyanaraman

- A Low-Cost and Simple-to-Deploy Peer-to-Peer Wireless Network Based on Open Source Linux Routers

N. Tsarmpopoulos, I. Kalavros, and S. Lalis

Session 4: Wireless Testbeds and Emerging Technologies

- A Testbed and Methodology for Experimental Evaluation of Wireless Mobile Ad hoc Networks

E. Nordström, P. Gunningberg, and H. Lundgren

- A Testbed for Experimentation of Innovative Services in the B3G Framework

A. Fresa, G. Iacovoni, M. Longo, A. Robustelli, A. Senatore, and F. Toro

- Running Variance Metric for Evaluating Performance of Wireless IP Networks in the MobileCity Testbed

C. Åhlund, R. Brännström, and A. Zaslavsky

Session 5: ORBIT Testbeds

- Wireless Link SNR Mapping Onto an Indoor Testbed

J. Lei, R. Yates, L. Greenstein, and H. Liu

- ORBIT Testbed Software Architecture: Supporting Experiments as a Service

M. Ott, I. Seskar, R. Siraccusa, and M. Singh

- ORBIT Measurements Framework and Library (OML): Motivations, Design, Implementation, and Features

M. Singh, M. Ott, I. Seskar, and P. Kamat

- Addressing Repeatability in Wireless Experiments Using ORBIT Testbed

S. Ganu, H. Krems, R. Howard, and I. Seskar

Session 6: Next Generation Wireless Networks

- Scalable Testbed for Next-Generation Wireless Networking Technologies

M. Takai, R. Bagrodia, M. Gerla, B. Daneshrad, M. Fitz, M. Srivastava, E. Belding-Royer, S. Krishnamurthy, M. Molle, P. Mohapatra, R. Rao, U. Mitra, C.-C. Shen, and J. Evans

- A Practical Approach for 4G Systems: Deployment of Overlay Networks

P. Vidales, G. Mapp, F. Stajano, J. Crowcroft, and C. Bernardos

- Analysis and Experimentation over Heterogeneous Wireless Networks

F. Cacace, M. Bernaschi, S. Za, and A. Pescapé

Session 7: Protocol Testbeds

- A Global X-Bone for Network Experiments

J. Touch, Y.-S. Wang, V. Pingali, L. Eggert, R. Zhou, and G. Finn

- Integrated Network Experimentation Using Simulation with Emulation

S. Gururupasad, R. Ricci, and J. Lepreau

- VDE: Virtual Distributed Ethernet

R. Davoli

- Inter-VLAN VPNs over a High Performance Optical Testbed

T. Saad, B. Alawieh, and H. Moutah

Session 8: Optical and High Speed Networks

- GEMnet2: NTT's New Network Testbed for Global R&D

H. Uose

- Project GIGA - High Speed Experimental IP/WDM Network

R. Scarabucci, M. Stanton, M. de Barros, M. Salvador, S. Rossi, F. Simões, M. Rocha, I. da Silva Neto, J. Rosolem, T. Fudoli, J. Duarte Mendes, N. Castro, I. Machado, A. Reggiani, A. Paradisi, and L. Martins

- ADRENALINE Testbed: User Management of Lighpaths over Intelligent Optical WDM Networks through GMPLS and XML

R. Muñoz, C. Pinart, R. Martínez, J. Sorribes, and G. Junyent

- Divide and Conquer: PC-Based Packet Trace Replay at OC-48 Speeds

T. Ye, D. Veitch, G. Iannaccone, and S. Bhattacharyya

Session 9: Testbeds and Measurement

- Automatic Configuration and Execution of Internet Experiments on an Actual Node-Based Testbed

T. Miyachi, K. Chinen, and Y. Shinoda

- The European Traffic Observatory Measurement Infrastructure (ETOMIC): A Testbed for Universal Active and Passive Measurements

D. Morató, E. Magaña, M. Izal, J. Aracil, F. Naranjo, F. Astiz, U. Alonso, I. Csabai, P. Haga, G. Simon, J. Steger, and G. Vattay

- TBI: End-to-End Network Performance Measurement Testbed for Empirical Bottleneck Detection

P. Calyam, D. Krymskiy, M. Sridharan, and P. Schopis

First International Conference on Testbeds and Research Infrastructures for the DEvelopment of NeTworks and COMmunities

Tridentcom is the first event that brings together all aspects related to experimental telecommunication infrastructures, creating a forum where telecommunication networks researchers, vendors, providers and users can exchange ideas on past experience, requirements, needs, visions for the establishment of such infrastructures. Research on all aspects of testbed and research infrastructure operation and management will find in Tridentcom its first forum for focused discussion.

Keynote Speech by Erol Gelenbe
(Imperial College London) on: *Research and Development Test-Beds for Future Networks*

Panel, chaired by Michael I. Smirnov
(FHI FOKUS) on: *Autonomic Computing and Communication Testbeds*

co-sponsored by IFIP WG 6.3



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Demos

- INLAB - S. Annese, A. Ghittino (CSP, Italy)
- GILDA - R. Barbera (INFN and University of Catania, Italy)
- MIPSD - S. Lucetti (University of Pisa, Italy)
- FOKUS - T. Magedanz (Fraunhofer Institute FOKUS, Germany)
- ETOMIC - D.I. Morato (Public University of Navarra, Spain)
- ORBIT - M. Ott (Rutgers University, USA)
- UnWiReD - W. Zhu, M. Fitz (UCLA, USA)
- Cognitive Packet Network - M. Gellman, E. Gelenbe, R. Lent (Imperial College, UK)
- CoRiTeL - A. L. Robustelli, F. Toro, D. Celentano (Co.Ri.TeL., Italy)
- WILMA - G. Lazzari (ITC-IRST, Italy), R. Battiti (University di Trento), R. Loro (Alpikom SpA, Italy)