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NETWORKING
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May 19-24 2002, Pisa - Italy

The Second IFIP-TC6 Networking Conference

<http://www.cnuce.pi.cnr.it/Networking2002>
E-mail: networking2002@cnuce.cnr.it



 **TELECOM**
ITALIA

Networking is the biennial Conference on Networking of the IFIP Technical Committee on Communication Systems (TC6). Networking 2002 is the second conference in this series --the first event was held in Paris, May 2000-- and is sponsored by the IFIP working groups on Network and Internetwork Architectures (WG 6.2), Performance of Communication Systems (WG 6.3), and Wireless Communications (WG 6.8).

Networking 2002 is organized into three tracks:

- Networking Technologies, Services and Protocols
- Performance of Computer and Communication Networks
- Mobile and Wireless Communications Systems

Invited speakers

Imrich Chlamtac - "Managing Optical Networks in the Optical Domain"
The University of Texas at Dallas, Richardson TX 75083-0688, USA

Randy Katz - "The Post-PC Era: It's All About Services"
University of California, Berkeley, CA 94720-1776, USA

Gerald Maguire - "Personal Computing and Communication"
Royal Institute of Technology (KTH), Sweden

Tutorial Program

Tutorial 1 - Pervasive and Mobile Commerce Applications
Marisa Viveros - IBM, T.J.Watson - USA

Tutorial 2 - Peer-to-Peer systems
John Crowcroft, Ian Pratt - University of Cambridge - UK

Tutorial 3 - Mobile Computing Middleware
Cecilia Mascolo - University College London - UK

Tutorial 4 - Network Security
Refik Molva - Institute Eurecom - France

Tutorial 5 - Network Measurement and Monitoring
Cristophe Diot, Supratik Bhattacharyya - Sprint ATL - USA

Tutorial 6 - Mobile IP
Dave Johnson - Rice University - USA

Tutorial 7 - Ad hoc networks
Stefano Basagni - Northeastern University - USA

Tutorial 8 - Communications Through Virtual Immersive Technologie
Francesco Vatalaro - Università di Tor Vergata - Italy

Giuseppe Riva - Istituto Auxologico Italiano - Italy
Fabrizio Davide - Telecom Italia - Italy

Tutorial 9 - Optical Networks
H. Perros, G. Rouskas - North Caroline State Univ. - USA

Workshops

Workshop 1: Web engineering
Technical Program Co-Chairs:
Fabio Panzneri, Università di Bologna, ITALY
Ludmilla Cherkasova, Hewlett Packard Labs, USA

Workshop 2: Peer to Peer Computing
Technical Program Co-Chairs:
Gian Pietro Picco, Politecnico di Milano, ITALY
Gianpaolo Cugola, Politecnico di Milano, ITALY

Workshop 3: IP over WDM
Technical Program Chair:
Giancarlo Prati, Scuola Superiore S. Anna, ITALY

| Event schedule at-a-glance (provisional program) | | | | | | | |
|--|--------------|----------------------------|----------------------------|----------------------------|--------------|-----------------------------------|--|
| Sunday 19 | Monday 20 | Tuesday 21 | Wednesday 22 | Thursday 23 | Friday 24 | Saturday 25 | Sunday 26 |
| | Tutorials | Networking 2002 conference | Networking 2002 conference | Networking 2002 conference | Workshops | TUSCANY TOUR with wine testing | Hystoric rowing competition in PISA |
| | | Invited Speaker | Invited Speaker | Invited Speaker | | | |
| | lunch | lunch | lunch | lunch | lunch | | |
| Tutorials | Tutorials | Networking 2002 conference | Networking 2002 conference | Networking 2002 conference | Workshops | | |

CONFERENCE PROGRAM - Tuesday 21

| | | | |
|-------------|--|--|--|
| 09:00-09:15 | Welcome | | |
| 09:20-10:15 | Invited Speaker: Imrich Chlamtac , The University of Texas at Dallas, USA <i>Managing Optical Networks in the Optical Domain</i> | | |
| 10:20-10:45 | Coffee Break | | |
| 10:45-12:35 | Plenary Session: Multicasting - 1 Channel Islands in A Reflective Ocean: Large Scale Event Distribution in Heterogeneous Networks , Jon Crowcroft A Reliable Multicast Protocol With Delay Guarantees , N. F. Maxemchuk Optimizing QoS-Based Multicast Routing in Wireless Networks: A Multi-Objective Genetic Algorithmic Approach , Abhishek Roy and Sajal K. Das | | |
| 12:35-14:00 | Lunch | | |
| 14:00-15:15 | Session 1-1 - Differentiated Services I | Session 1-2 - Network Performance I | Session 1-3 - Self-Organizing Networks: Services and Protocols |
| | <p>An Experimental Study of Probing-Based Admission Control for DiffServ Architectures, Susana Sargento, Roger Salgado, Miguel Carmo, Victor Marques, Rui Valadas, Edward Knightly</p> <p>High Performance DiffServ Mechanism for Routers and Switches Packet Arrival Rate based Queue Management for Class Based Scheduling, Bartek Wydrowski, Moshe Zukerman</p> <p>Session-Aware Popularity Resource Allocation for Assured Differentiated Services, Paulo Mendes, Henning Schulzrinne, Edmundo Monteiro</p> | <p>Most probable path techniques for Gaussian queueing systems, Ilkka Norros</p> <p>On the Queue Tail Asymptotics for General Multifractal Traffic, Sándor Molnár, Trang Dinh Dang, István Maricza</p> <p>Some models for contention resolution in cable networks, Onno Boxma, Dee Denteneer, Jacques Resing</p> | <p>Adaptive Creation of Network Applications in the Jack-in-the-Net Architecture, Tomoko Ito, Tetsuya Nakamura, Masato Matsuo, Tatsuya Suda, Tomonori Aoyama</p> <p>Anchored Path Discovery in Terminode Routing, Ljubica Blazevic, Silvia Giordano and Jean-Yves Le Boudec</p> <p>Distributed Transmission Scheduling Using Code-Division Channelization, Lichun Bao and J.J. Garcia-Luna-Aceves</p> |
| 15:15-16:30 | Posters Session | | |
| 16:30-17:00 | Coffee Break | | |
| 17:00-18:15 | Session 2-1 - Call Admission Control | Session 2-2 - Voice/Video Performance Modeling | Session 2-3 - Web Access |
| | <p>Towards Efficient Decision Rules for Admission Control Based on the Many Sources Asymptotic, G. Seres, A. Szlavik J. Zatoryi J. Biro</p> <p>QoS with an Edge-based Call Admission Control in IP Networks, D. R. Jeske, B. Samadi, K. Sohraby, Y.T. Wang, Q. Zhang</p> <p>Admission Control and Capacity Management for Advance Reservations with Uncertain Service Duration, Yeali S. Sun, Yung-Cheng Tu and Meng Chang Chen</p> | <p>Performance Evaluation of the Deadline Credit Scheduling Algorithm for Soft-Real-Time Applications in Distributed Video-on-Demand Systems, Adamantia Alexandraki, Michael Paterakis</p> <p>The Impact of Replacement Granularity on Video Caching, Elias Balafoutis, Antonis Panagakis, Nikolaos Laoutaris, and Ioannis Stavrakakis</p> <p>Utility Analysis of Simple FEC Schemes for VoIP, Parijat Dube, Eitan Altman</p> | <p>A Power Saving Architecture for Web Access from Mobile Computers, G. Anastasi, M. Conti, E. Gregori, A. Passarella</p> <p>A Resource/Connection Management Scheme for HTTP Proxy Server, Takuya Okamoto, Tatsuhiko Terai, Go Hasegawa, and Masayuki Murata</p> <p>Measurement-Based Modeling of Internet Round-Trip Time Dynamics using System Identification, Hiroyuki Ohsaki, Mitsushige Morita, Masayuki Murata</p> |

POSTERS SESSION

| | | | |
|---|--|---|---|
| <p>Jumpstart: A Just-In-Time Signaling Architecture for WDM Burst-switched Networks. Ilia Baldine, Harry Perros, George N. Rouskas and Dan Stevenson</p> | <p>Device Discovery in Bluetooth Networks: a Scatternet Perspective Stefano Basagni, Raffaele Bruno and Chiara Petrioli</p> | <p>QoS evaluation of Real-time applications over a Multi-Domain DiffServ experimental test-bed G. Carrozzo, V. Chionsini, S. Giordano S. Niccolini</p> | <p>A new policy based management of Mobile IP users Hakima Chaouchi Guy Pujolle</p> |
| <p>A framework for policy-based management of QoS aware IP Networks Piergiorgio Cremonese, Marcello Esposito, Silvia Giordano, Milena Mondini, Simon Pietro Romano, Giorgio Ventre</p> | <p>SIP-H323: a solution for interworking saving existing architecture Giuseppe De Marco, Salvatore Loreto, Gerardo Sorrentino, Luca Veltri</p> | <p>High Router Flexibility and Performance by Combining Dedicated Lookup Hardware (IFT), off the Shelf Switches and Linux Christian Duret Francis Rischette Joel Lattmann Valery Laspreses Pim Van Heuven Steven Van den Berghe Piet Demeester</p> | <p>Group Security Policy Management for IP Multicast and Group Security Thomas Hardjono Hugh Harney</p> |
| <p>Issues in Internet Radio Yasushi Ichikawa, Kensuke Arakawa, Keisuke Wano and Yuko Murayama</p> | <p>I/O bus usage control in PC-based software routers Oscar-Iván Lepe-Aldama Jorge García-Vidal</p> | <p>Multiple Access in Ad-Hoc Wireless LANs with Noncooperative Stations Jerzy Konorski</p> | <p>Next Generation Networks and Services in Slovenia Andrej Kos, Janez Bešter, and Peter Homan</p> |
| <p>Minimizing the Routing Delay in Ad Hoc Networks through Route-Cache TTL Optimization Ben Liang and Zygmunt J. Haas</p> | <p>Long-Range Dependence of Internet Traffic Aggregates Solange Lima, Magda Silva, PauloCarvalho, Alexandre.Santos, Vasco.Freitas</p> | <p>Improved initial synchronisation and frequency offset estimation in UMTS FDD mode V.Lomi, G.L.Pierobon, D.Tonetto, L.Vangelista</p> | <p>Scalable Adaptive Hierarchical Clustering L. Mathy, R. Canonico, S. Simpson, D. Hutchison</p> |
| <p>How to achieve fair differentiation Eeva Nyberg and Samuli Aalto</p> | <p>A Framework to Service and Network Resource Management in Composite Radio Environments L-M.Papadopoulou, V.Stavroulaki, P.Demestichas, M.Theologou</p> | <p>JESA Service Discovery Protocol Efficient Service Discovery in Ad-Hoc Networks Stephan Preuss</p> | <p>Measurement-Based Admission Control for Dynamic Multicast Groups in Diff-Serv Networks Elena Pagani, Gian Paolo Rossi.</p> |
| <p>Performance Simulations of a QoS Aware Caching Method Pertti Raatikainen, Mika Wikström, Timo Hämäläinen</p> | <p>Call Admission Control for Multimedia Cellular Networks Using Neuro-Dynamic Programming Sidi-Mohammed Senouci André-Luc Beylot Guy Pujolle</p> | <p>Aspects of Amnet Signaling Anke Speer, Marcus Schoeller, Till Harbaum, Martina Zitterbart</p> | <p>Virtual Home Environment for multimedia services in 3rd generation networks Orazio Tomarchio, Andrea Calvagna, Giuseppe Di Modica</p> |
| <p>On Providing End-To-End QoS introducing a set of Network Services in Large-Scale IP Networks. E. Tsolakou, E. Nikolouzou, I. S. Venieris</p> | <p>SatPEP: a TCP Performance Enhancing Proxy for Satellite Links Dimitris Velenis, Dimitris Kalogeras, Basil Maglaris</p> | <p>An Overlay for Ubiquitous Streaming over Internet C.K. Yeo, B.S. Lee, M.H. Er</p> | <p>A Measurement-Based Dynamic Guard Channel Scheme for Handover Prioritization in Cellular Networks Roland Zander Johan M Karlsson</p> |

CONFERENCE PROGRAM - Wednesday 22

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|-------------|--|---|--|
| 09:00-10:40 | Session 3-1 - Optical Networks | Session 3-2 - Network and Traffic Modeling | Session 3-3 - Ad Hoc Networks |
| | <p>Optimal Link Capacity Dimensioning in Proportionally Fair Networks, Michal Pioro, Gabor Malicsko, Gabor Fodor, Tomasz Szymanski</p> <p>Load Balancing in WDM Networks through Adaptive Routing Table Changes, Mauro Brunato, Roberto Battiti, Elio Salvadori</p> <p>Models for the Logical Topology Design Problem, Puech Nicolas, Kuri Josue, Gagnaire Maurice</p> <p>Dynamic Shaping for Self-similar Traffic Using Network Calculus, Halima Elbiaze, Tijani Chahed, Tulin Atmaca, Gerard Hebuterne</p> | <p>Is Admission-Controlled Traffic Self-Similar?, G. Bianchi, V. Mancuso, G. Neglia</p> <p>Analysis of CMPP approach in modeling broadband traffic, R.G.Garropo, S.Giordano, S.Lucetti, M.Pagano</p> <p>A Mathematical Model of IP Over ATM, Irena Atov, Richard Harris</p> <p>Analysis and Comparison of Internet Topology Generators, Damien Magoni and Jean-Jacques Pansiot</p> | <p>Energy Efficient Design of Wireless Ad Hoc Networks, Carla-Fabiana Chiasserini, Imrich Chlamtac, Paolo Monti, Antonio Nucci</p> <p>Performance of multipoint relaying in ad hoc mobile routing protocols, Philippe Jacquet, Anis Laouiti, Pascale Minet, Laurent Viennot</p> <p>An Adaptive Location-Aware MAC Protocol for Multichannel Multihop Ad-Hoc Networks, Zi-Tsan Chou, Ching-Chi Hsu, and Ferng-Ching Lin</p> <p>Capacity Assignment in Bluetooth Scatternets – Analysis and Algorithms, Gil Zussman and Adrian Segall</p> |
| 10:40-11:20 | Coffee Break | | |
| 11:20-12:35 | Session 4-1 - Resources Allocation I | Session 4-2 - Lan and Pan | Session 4-3 - Performance of Wireless Networks |
| | <p>Optimization-Based Congestion Control for Multicast Communications, Jonathan K. Shapiro, Don Towsley, Jim kurose, Dept of Computer Science, University of Massachusetts at Amherst, USA</p> <p>Severe Congestion Handling with Resource Management in Diffserv On Demand, Andras Csaszar, Attila Takacs, Robert Szabo, Viora Rexhepi and Georgios Karagiannis</p> <p>Resource Allocation with Persistent and Transient Flows, Supratim Deb, Ayalvadi Ganesh, Peter Key</p> | <p>A Novel and Simple MAC Protocol for High Speed Passive Optical LANs, Chuan Heng Foh and Moshe Zukerman</p> <p>The Bluetooth Technology: State of the Art and Networking Aspects, D. Cassioli, A. Detti, P. Loreti, F. Mazzenga, F. Vatalaro</p> <p>Time and frequency synchronization for Hiperlan/2, Anna Berno and Nicola Laurenti</p> | <p>Performance Analysis of a Forwarding Scheme for Handoff in HAWAII, C. Blondia, O. Casals, L. Cerda, G. Willems</p> <p>Evaluating the Performance of a Network Management Application Based on Mobile Agents, Marcelo Gonçalves Rubinstein, Otto Carlos M. B. Duarte, and Guy Pujolle</p> <p>Performance evaluation on WAP and Internet protocol over 3G wireless networks, Hidetoshi Ueno, Norihiro Ishikawa, Hideharu Suzuki, Hiromitsu Sumino and Osamu Takahashi</p> |
| 12:35-14:00 | Lunch | | |
| 14:00-15:00 | Invited Speaker: Randy Katz , University of California, Berkeley, USA <i>The Post-PC Era: It's All About Services</i> | | |
| 15:00-16:00 | Panel: "Post 9-11 Networking Challenges" organized by Andrew T. Campbell , Columbia University, USA | | |
| 16:00-16:30 | Coffee Break | | |
| 16:30-18:10 | Session 5-1 - Multimedia | Session 5-2 - Transmission Control Protocol (TCP) | Session 5-3 - Future Wireless Networks I |
| | <p>Performance Evaluation of H.263-based Video Transmission in an Experimental Ad-Hoc Wireless LAN System, Matias Freytes</p> <p>Differentiated Services Based Priority Dropping and its Application to Layered Video Streams, Markus Fidler</p> <p>Optimal Feedback for Quality Source-Adaptive Schemes in Multicast Multi-layered Video Environments, Paulo André da Silva Gonçalves, José Ferreira de Rezende, Otto Carlos Muniz Bandeira Duarte, and Guy Pujolle</p> <p>A Fibre Channel Dimensioning for a multimedia system with deterministic QoS, Laurent George, Dana Marinca, Pascale Minet</p> | <p>On the Resource Efficiency of Explicit Congestion Notification, Kostas Pentikousis and Hussein Badr</p> <p>Sender-Side TCP Modifications: An Analytical Study, Renato Lo Cigno, Gregorio Procissi, Mario Gerla</p> <p>Modelling a mixed TCP Vegas and TCP Reno scenario, Andrea De Vendictis Andrea Baiocchi</p> <p>Performance Sensitivity and Fairness of ECN-Aware Modified TCP, Archan Misra, Teunis Ott</p> | <p>Call Admission Control for 3G CDMA Networks with Differentiated QoS, Qian Huang, H.M. Chen, K.T. Ko, S. Chan and K.S. Chan</p> <p>Performance Evaluation of Channel Switching Scheme for Packet Data Transmission in Radio Network Controller, Yoshiaki Ohta, Kenji Kawahara, Takeshi Ikenaga, Yuji Oie</p> <p>An Optimal Reservation-Pool Approach for Guaranteeing the Call-level QoS in Next-generation Wireless Networks, Fei Hu and Neeraj K. Sharma</p> <p>A New Adaptive Channel Reservation Scheme for Handoff Calls in Wireless Cellular Networks, Zhong Xu, Zhenqiang Ye, Srikanth V. Krishnamurthy, Satish K. Tripathi, Mart Molle</p> |

CONFERENCE PROGRAM - Thursday 23

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|-------------|---|--|---|
| 09:00-10:40 | Session 6-1 - Internet Protocol (IP) | Session 6-2 - Queuing Models | Session 6-3 - Satellite Networks |
| | <p>Connection of extruded subnets : a solution based on RSIP, Cédric de Launois, Aurélien Bonnet, Marc Lobelle</p> <p>Adjusted Probabilistic Packet Marking For IP Traceback, Tao Peng, Chris Leckie and Ramamohanarao Kotagiri</p> <p>Tuning Delay Differentiation in IP Networks using Priority Queuing Models, P. Sousa, P. Carvalho and V. Freitas</p> <p>QoS-Conditionalized Handoff for Mobile IPv6, Xiaoming Fu, Holger Karl and Cornelia Kappler</p> | <p>On Loss Probabilities in Presence of Redundant Packets with Random Drop, Parijat Dube, Omar Ait-Hellal, Eitan Altman</p> <p>Performance analysis of a GI-G-1 preemptive resume priority buffer, Joris Walraevens, Bart Steyaert and Herwig Bruneel</p> <p>Analysis of the discrete-time $G^A(G)/Geom/c$ queueing model, Sabine Wittevrongel, Herwig Bruneel and Bart Vinck</p> <p>On a theory of interacting queues, A. Stepanenko, C. C. Constantinou, T. N. Arvanitis and K. Baughan</p> | <p>Analysis of A MAC Protocol for a Time-Code Air Interface in LEO Mobile Satellite Systems, Romano Fantacci, Giovanni Giambene</p> <p>Performance Analysis of LEO Satellite Networks, A. Halim Zaim, Harry G. Perros, George N. Rouskas</p> <p>Gateway Architecture for DVB-RCS Satellite Networks, Antonio Pietrabissa</p> <p>Connection Admission Control CAC and Differentiated Resources Allocation RA in a Low Earth Orbit LEO Satellite Constellation, Samir Tohmé, Rima Abi Fadel</p> |
| 10:40-11:20 | Coffee Break | | |
| 11:20-12:35 | Session 7-1 - Resource Allocation II | Session 7-2 - Performance of Optical Networks | Session 7-3 - Future Wireless Networks II |
| | <p>Dimensioning Bandwidth for Elastic Traffic, Zhong Fan</p> <p>Fair Adaptive Bandwidth Allocation: A Rate Control Based Active Queue Management Discipline, Abhinav Kamra, Huzur Saran, Sandeep Sen, Rajeev Shorey</p> <p>Distributed Scheduling via Pricing in a Communication Network, T. Heikkinen</p> | <p>A Simulation Study of Access Protocols for Optical Burst-Switched Ring Networks, Lisong Xu Harry G. Perros George N. Rouskas</p> <p>Capacity Efficiency of Distributed Path Restoration Mechanisms in Optical Mesh Networks, Bart Rousseau and Fabrice Poppe</p> <p>Helios: A Broadcast Optical Architecture, Iliia Baldine, Laura E. Jackson, George N. Rouskas</p> | <p>Service and Network Management Interworking in Future Wireless Systems, V.Tountopoulos, V.Stavroulaki, P.Demestichas, N.Mitrou, M.Theologou</p> <p>Scheduling Differentiated Traffic in Multicarrier Unlicensed Systems, Giannis F. Marias, and Lazaros Merakos</p> <p>A Simple Model for Calculating SIP Signalling Flows in 3GPP IP Multimedia Subsystems, Alexander A. Kist, R.J. Harris</p> |
| 12:35-14:00 | Lunch | | |
| 14:00-15:00 | Invited Speaker: Gerald Maguire, Royal Institute of Technology (KTH), Sweden <i>Personal Computing and Communication</i> | | |
| 15:00-16:40 | Session 8-1 - Multiprotocol Label Switching (MPLS) | Session 8-2 - Networks Performance II | Session 8-3 - Multicasting II |
| | <p>Dynamic Online Routing Algorithm for MPLS Traffic Engineering, W. Szeto, R. Boutaba, and Y. Iraqi</p> <p>Optimal Capacity Provisioning for Label Switched Paths in MPLS Networks, Carlo Bruni, Caterina Scoglio, Stefania Vergari</p> <p>A New Class of On-Line Minimum-Interference Routing Algorithms, Ilias Iliadis and Daniel Bauer</p> <p>Performance Analysis of Dynamic Lightpath Configuration for WDM Asymmetric Ring Networks, Takuji Tachibana and Shoji Kasahara</p> | <p>A Queueing Network Model for GSM/GPRS Cell with Multiple Service Classes, D. Kouvatso, K. Al-Begain and I. Awan</p> <p>Integrated multi-purposed testbed to characterize the performance of Internet access over Hybrid Fiber Coaxial access networks, Hung Nguyen Chan, Belen Carro Martinez, Rafa Mompó Gomez, Judith Redoli Granados</p> <p>802.11 LANs: Saturation Throughput in the Presence of Noise, Vladimir Vishnevsky and Andrey Lyakhov</p> <p>Efficient simulation of blocking probabilities for multi-layer multicast streams, Jouni Karvo</p> | <p>Aggregated Multicast---A Comparative Study, Jun-Hong Cui, Jinkyu Kim, Dario Maggiorini, Khaled Boussetta and Mario Gerla</p> <p>New Center Location Algorithms for Shared Multicast Trees, Young-Chul Shim</p> <p>A multicast FCFS output queued switch without speedup, M.A. Bonuccelli and A. Urpi</p> <p>Fault-Tolerant Support for Reliable Multicast in Mobile Wireless Systems 1056, Giuseppe Anastasi, Alberto Bartoli, Flaminia L. Luccio</p> |
| 16:40-17:00 | Coffee Break | | |
| 17:00-17:15 | AWARDS | | |