

# MASCOTS 2007, October 24-26, 2007, Boğaziçi University, Istanbul-Final Program

Day 1		
October 24, 2007 Wednesday		
Time	Room Asia	Room Europe
09:00-10:00	<b>Opening Remarks:</b> Fatih Alagöz, Local Organization Committee, Boğaziçi University, Istanbul M. Ufuk Çağlayan, Tony Field, Program Chairs, Boğaziçi University, Istanbul and Imperial College, London Erol Gelenbe, Conference Chair, Imperial College, London <b>Keynote Lecture:</b> Peter Harrison, Imperial College, London, <i>Approaches to Handling Exploding State Spaces</i>	
10:00-10:30	Coffee Break	
10:30-12:30	<b>Session 1-1: Performance of Wireless/Sensor Networks – (Alagöz)</b> <ul style="list-style-type: none"> <li>P. S. Sausen, J. R. Sousa, M. A. Spohn, A. Perkusich, A. M. N. Lima, <i>Dynamic Power Management with Scheduled Switching Modes in Wireless Sensor Networks</i></li> <li>François Ingelrest, Nathalie Mitton and David Simplot-Ryl, <i>A Turnover based Adaptive HELLO Protocol for Mobile Ad Hoc and Sensor Networks</i></li> <li>Arunchandar Vasan, A. Udaya Shankar, <i>Time-stepped Stochastic Simulation of 802.11 WLANs</i></li> <li>Yu Dong, Wing-Kai Hon, David K. Y. Yau and Jren-Chit Chin, <i>Distance Reduction in Mobile Wireless Communication: Lower Bound Analysis and Practical Attainment</i></li> </ul>	<b>Session 1-2: Applications and Tools – 1 (Riley)</b> <ul style="list-style-type: none"> <li>Walter A. Burkhard, <i>Efficient External Table Reordering</i></li> <li>Georgios Kastaniotis, Elias Maragos, Vasileios Dimitsas, Christos Douligeris, Dimitris K. Despotis, <i>Web Proxy Caching Object Replacement: Frontier Analysis to Discover the Good-Enough Algorithms</i></li> <li>Novella Bartolini, Giancarlo Bongiovanni, Simone Silvestri, <i>An autonomic admission control policy for distributed web systems</i></li> <li>Francesc Guim, Julita Corbalan and Jesus Labarta, <i>Modeling the impact of resource sharing in Backfilling Policies using the Alvio Simulator</i></li> </ul>
12:30-14:00	Lunch Break	
14:00-15:30	<b>Session 1-3: Performance of Wireless/Sensor Networks – 2 (Tuğcu)</b> <ul style="list-style-type: none"> <li>Despina Triantafyllidou and Khaldoun Al Agha, <i>Evaluation of TCP Performance in MANETs using an Optimized Scalable Simulation Model</i></li> <li>Nitya Sundareswaran, George F. Riley, Ken Boyd, <i>Improving Quality of Service in MAC 802.11 Layer</i></li> <li>Dheeraj Reddy and George Riley, <i>Measurement-Based Physical Layer Modeling for Wireless Network Simulations</i></li> </ul>	<b>Session 1-4: Computer Systems (Levi)</b> <ul style="list-style-type: none"> <li>Xiaolong Jin and Geyong Min, <i>Queue Length Distribution and Loss probability of Generalized Processor Sharing Systems under Multi-Class Self-Similar Traffic</i></li> <li>Melhem Tawk, Khaled Z. Ibrahim, Smail Niar, <i>Adaptive Sampling for Efficient MPSoC Architecture Simulation</i></li> <li>Andrzej Kochut, Kirk Beaty, <i>On Strategies for Dynamic Resource Management in Virtualized Server Environments</i></li> </ul>
15:30-16:00	Coffee Break	
16:00-18:00	<b>Session 1-5: Performance and Methodology – 1 (Çağlayan)</b> <ul style="list-style-type: none"> <li>Rukma P. Verlekar, Varsha Apte, Prakhar Goyal, Bhavishh Agarwal, <i>PerfCenter: A Methodology and Tool for Performance Analysis of Application Hosting Centers</i></li> <li>Enrique Hernandez-Orallo, Joan Vila-Carbo, <i>Network Performance Analysis based on Histogram Workload Models</i></li> <li>Jing Fu, Olof Hagsand and Gunnar Karlsson, <i>Queueing Behavior and Packet Delays in Network Processor Systems</i></li> <li>Jonatha Anselmi, Giuliano Casale, Paolo Cremonesi, <i>Approximate Solution of Multiclass Queueing Networks with Region Constraints</i></li> </ul>	<b>Session 1-6: Parallel and Distributed Systems (Özturan)</b> <ul style="list-style-type: none"> <li>Edi Shmueli, Dror G. Feitelson, <i>Uncovering the Effect of System Performance on User Behavior from Traces of Parallel Systems</i></li> <li>Georges Da Costa, Marios D. Dikaiakos, Salvatore Orlando, <i>Nine months in the life of EGEE: a look from the South</i></li> <li>Andreolini Mauro, Casolari Sara, Colajanni Michele, <i>Trend-based load balancer for a multi-tier distributed system</i></li> <li>Francesco Lelli, Gaetano Maron, Salvatore Orlando, <i>Client Side Estimation of a Remote Service Execution</i></li> </ul>
18:30	Reception and Dinner, Kennedy Lodge	

# MASCOTS 2007

Day 2	
October 25, 2007 Thursday	
Time	Room Asia
09:00-10:00	<b>Keynote Lecture:</b> Gilles Bernot, Polytechnic of Nice School of Engineering & University of Nice Sophia-Antipolis, Nice, <i>A Discrete Approach to Model Biological Gene Regulatory Networks and the Use of Temporal Logic to Propose Wet Experiments</i>
10:00-10:30	Coffee Break
10:30-12:30	<b>Session 2-1: Performance of Wireless/Sensor Networks -3 (Field)</b> <ul style="list-style-type: none"> <li>Renato M. de Moraes, Fagner P. de Araujo, <i>Modeling Interference in Wireless Ad Hoc Networks</i></li> <li>Deniz Çokuslu, Kayhan Erciyeş, <i>A Hierarchical Connected Dominating Set Based Clustering Algorithm for Mobile Ad hoc Networks</i></li> <li>Marwen Abdennebi and Samir Tohme, <i>Design and Analysis of a WiMAX Mesh Based Cellular Radio Access Network</i></li> <li>Pinar Sarisaray, Gurkan Gur, Sebnem Baydere and Emre Harmanci, <i>Performance Comparison of Error Compensation Techniques with Multipath Transmission in Wireless Multimedia Sensor Networks</i></li> </ul>
12:30-14:00	Lunch Break
14:00-15:30	<b>Session 2-3: Performance of Wireless/Sensor Networks -4 (Alagöz)</b> <ul style="list-style-type: none"> <li>Nicos Gollan, Jens Schmitt, <i>Energy-Efficient TDMA Design Under Real-Time Constraints in Wireless Sensor Networks</i></li> <li>Jia Hu, Geyong Min, Mike E Woodward, <i>Performance Modelling of IEEE 802.11e Contention Free Bursting Scheme with Heterogeneous Stations</i></li> <li>Shamim Begum, Sandeep Gupta, Ahmed Helmy, <i>Performance analysis of Wireless MAC Protocols using a Search based Framework.</i></li> </ul>
15:30-16:00	Coffee Break
16:00-18:00	<b>Session 2-5: Performance and Methodology -2 (Karatza)</b> <ul style="list-style-type: none"> <li>Dan Tsafir, Keren Ouaknine, and Dror G. Feitelson, <i>Reducing Performance Evaluation Sensitivity and Variability by Input Shaking</i></li> <li>Arno Moonen, Marco Bekooij, Rene van den Berg, Jef van Meerbergen, <i>Practical and Accurate Throughput Analysis with the Cyclo Static Dataflow Model</i></li> <li>Qi Zou, <i>PSOS: A Novel Protocol Simulation Platform for Satellite Networks</i></li> <li>Parijat Dube, Hao Yu, Li Zhang, Jose E. Moreira, <i>Performance Evaluation of a Commercial Application, Trade, in Scale-out Environments</i></li> </ul>

## MASCOTS 2007

Day 2	
October 25, 2007 Thursday	
Time	Room Europe
09:00-10:00	
10:00-10:30	
10:30-12:30	<b>Session 2-2: Applications and Tools – 2 (Karatz)</b> <ul style="list-style-type: none"> <li>Antonis Papadogiannakis, Demetres Antoniadis, Michalis Polychronakis, and Evangelos P. Markatos, <i>Improving the Performance of Passive Network Monitoring Applications using Locality Buffering</i></li> <li>Humberto T. Marques-Neto, Virgilio A. F. Almeida, Jussara M. Almeida, <i>Pricing Broadband Internet Adaptive Services</i></li> <li>Yusuke Sakumoto, Ryouta Asai, Hiroyuki Ohsaki and Makoto Imase, <i>Design and Implementation of Flow-Level Simulator for Performance Evaluation of Large Scale Networks</i></li> <li>Naser Sedaghati-Mokhtari, Mahdi Nazm Bojnordi and Sied Mehdi Fakhraie, <i>MDST: Multiprocessor DSP Simulation Toolkit for Voice Processing Applications</i></li> </ul>
12:30-14:00	<b>Lunch Break</b>
14:00-15:30	<b>Session 2-4: Computer Networks – 1 (Field)</b> <ul style="list-style-type: none"> <li>Ashok Khanal, Bahman S Motlagh, Taskin Kocak, <i>Improving the Efficiency of Spam Filtering through Cache Architecture</i></li> <li>Wei Li and Andrew W. Moore, <i>A Machine Learning Approach for Efficient Traffic Classification</i></li> <li>Xiaoyu Yang, Yiming Hu, <i>Search Enhanced by Distributed Semantic Clustering in Gnutella-like P2P Systems</i></li> </ul>
15:30-16:00	<b>Coffee Break</b>
16:00-17:30	<b>Session 2-6: Computer Networks – 2 (Akar)</b> <ul style="list-style-type: none"> <li>Grigorios Zachariadis, Javier A. Barria, <i>Load distribution for telecommunications networks using revenue management</i></li> <li>Nail Akar, <i>Model-free Adaptive Hysteresis for Dynamic Bandwidth Reservation</i></li> <li>Hao Wang, Dave Laurenson and Jane Hillston, <i>PEPA Analysis of MAP Effects in Hierarchical Mobile IPv6</i></li> </ul>

## MASCOTS 2007, October 24-26, 2007, Boğaziçi University, Istanbul-Final Program

Day 3		
October 26, 2007 Friday		
Time	Room Asia	Room Europe
09:00-10:00	<b>Session 3-1: Performance and Methodology – 3 (Alagöz)</b> <ul style="list-style-type: none"> <li>Ram Chakka, Enver Ever, Orhan Gemikonakli, <i>Joint-State Modelling for Open Queuing Networks with Breakdowns, Repairs and Finite Buffers</i></li> <li>Stefan Penz, <i>Wireless Multicast Support for the NS-2 Emulation Environment</i></li> </ul>	<b>Session 3-2: Storage Systems (Çağlayan)</b> <ul style="list-style-type: none"> <li>Timothy Bisson, Scott A. Brandt, <i>Reducing Hybrid Disk Write Latency with Flash-Backed I/O Requests</i></li> <li>Dong In Shin, Young Jin Yu, and Heon Y. Yeom, <i>Shedding Light in the Black-Box : Structural Modeling of Modern Disk Drives</i></li> </ul>
10:00-10:30	<b>Coffee Break</b>	<b>Coffee Break</b>
10:30-12:30	<b>Session 3-3: Optical Networks (Oktuğ)</b> <ul style="list-style-type: none"> <li>F. Hormozdiari, A. Rajabi, A. Khonsari, <i>Mathematical Analysis of Delay Line to Wavelength Allocation Algorithms in Optical Networking</i></li> <li>Yoong Cheah Huei, Pung Hung Keng and Nikolai Krivulin, <i>Average Network Blocking Probabilities for TDM WDM Optical Networks with OTSIs and without WC</i></li> <li>Oto Pobiecky, Ivan Kotuliak, Daniel Popa, Tulin Atmaca, Gerard Hebuterne, <i>LOCOMOTIVE: A Hybrid Access Protocol for Bus-Based Passive Optical Networks</i></li> <li>Poul E. Heegaard and Werner Sandmann, <i>Efficient Simulation of Optical Ring Networks with Intermittent Transceiver Faults</i></li> </ul>	<b>Session 3-4: Computer Networks – 3 (Gelenbe)</b> <ul style="list-style-type: none"> <li>Erol Gelenbe, Michael Gellman, <i>Can Routing Oscillations be Good?</i></li> <li>Jung Ha Hong and Khosrow Sohraby, <i>On the Asymptotic Analysis of Packet Aggregation Systems</i></li> <li>Daniel Popa, Joanna Tomasik, <i>On Markov Chain Modelling of Asynchronous Optical CSMA/CA Protocol</i></li> <li>F. Lo Presti, C. Petrioli, C. Vicari, <i>Distributed Dynamic Replica Placement and Request Redirection in Content Delivery Networks</i></li> </ul>
12:30-14:00	<b>Lunch Break</b>	<b>Lunch Break</b>
14:00-15:30	<b>Session 3-5: Performance of Wireless/Sensor Networks – 5 (Ersoy)</b> <ul style="list-style-type: none"> <li>Cristiana Gomes and Gurvan Huiban, <i>Multiobjective Analysis in Wireless Mesh Networks</i></li> <li>Petr Jurčík, Anis Koubâa, Mário Alves, Eduardo Tovar, Zdeněk Hanzálek, <i>A Simulation Model for the IEEE 802.15.4 protocol: Delay/Throughput Evaluation of the GTS Mechanism</i></li> <li>Rabun Koşar, Cem Ersoy, <i>Enhancing The Performance of Nonuniformly Deployed Sensor Network by Locating Bottleneck Areas for Partial Redeployment</i></li> </ul>	<b>Session 3-6: Computer Networks – 4 (Atmaca)</b> <ul style="list-style-type: none"> <li>Hind Castel, Lynda Mokdad, Nihal Pekergin, <i>Stochastic bounds applied to the end to end QoS in communication systems</i></li> <li>Mohammad S. Talebi, Fahimeh Jafari, Ahmad Khonsari, <i>A Novel Flow Control Scheme for Best Effort Traffic in NoC Based on Source Rate Utility Maximization</i></li> <li>Muhammad Abdulla and Robert Simon, <i>Analysis of Core-Assisted Routing in Opportunistic Networks</i></li> <li>Yulei Wu, Geyong Min, Mohamed Ould-Khaoua, HaoYin, <i>An Analytical Model for Torus Networks in the Presence of Hot-Spot Traffic with Batch Arrivals</i></li> </ul>
14:00-16:00 (Session 3-6)		
<b>End of the Symposium</b>		