Welcome from the Dean of USF  
Message from the General Chair  
Program Committee Chair’s Message for LCN 2004  
Welcome from EmNetS-I Chairs  
Message from the WLN Co-Chairs  
Message from the HSLN Chairs  
LCN 2004 Organizing Committee  
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WLN 2004 Organizing and Program Committees  
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LCN 2004 Reviewers  
LCN Conference  
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Opportunities and Challenges in High-Rate Wireless Sensor Networking  
Session: Peer-to-Peer Networks  
Bringing Efficient Advanced Queries to Distributed Hash Tables  
A Thermal-Dissipation-Based Approach for Balancing Data Load in Distributed Hash Tables  
Application Layer Multicasting for Mobile Ad-Hoc Networks with Network Layer Support  
Session: Mobility Management  
Multilevel Hierarchical Mobility Management Scheme in Complicated Structured Networks  
Introducing a Hybrid Fast and Hierarchical MIPv6 Scheme in a UMTS-IP Converged Architecture  
Mobility-Aware Cache Replacement for Users of Location-Dependent Services  
Session: Sensor Networks  
Election: Energy-Efficient and Low-latEncy sCheduling Technique for wireless sensOr Networks  
Estimating Coverage Holes and Enhancing Coverage in Mixed Sensor Networks  
A Partial-Range-Aware Localization Algorithm for Ad-Hoc Wireless Sensor Networks  
Session: Ad Hoc Networks I  
CineMA: Cooperation Enhancement in Manets  
New Operating Modes for Bluetooth Networks in Distributed Process Control Systems  
Anonymous Secure Routing in Mobile Ad-Hoc Networks  
Session: Network Management  
Extracting Attack Knowledge Using Principal-Subordinate Consequence Tagging Case Grammar and Alerts Semantic Networks  
SPIE-IPv6: Single IPv6 Packet Traceback
Hierarchical Policy Based Management Architecture to Support the Deployment and the Discovery of Services in Ubiquitous Networks

Real-Time Synchronized Vision Sensors over Ethernet

Estimation and Removal of Clock Skew from Delay Measures

Automatic Specialization of Protocol Stacks in Operating System Kernels

Keynote 2 (LCN)

Networking 2004: Trends and Issues

Session: End Systems

Overhead Analysis of Location-Aware Two-Phase Coding Multi-Channel MAC Protocol (LA-TPCMMP) for MANETs

Supporting MAC Layer Multicast in IEEE 802.11 Based MANETs: Issues and Solutions

Efficient Hybrid Multicast Routing Protocol for Ad-Hoc Wireless Networks

Session: Ad Hoc Networks II

Experimental Characterization of QoS in Commercial Ethernet Switches for Statistically Bounded Latency in Aircraft Networks

Design and Performance Evaluation of a New Spatial Reuse FireWire Protocol

Design and Analysis of a Rate-Based Algorithm for Active Queue Management

Session: High Performance Protocols

The Mirage NFS Router

Popularity-Wise Proxy Caching for Interactive Streaming Media

The Effect of End to End Latency in a Distributed Storage Area Network on Microsoft Exchange Server 2003 Performance - Part I

Session: Data Management and Retrieval

Evaluation and Application of Available Bandwidth Estimation Techniques to Improve TCP Performance

Collaborative SCTP: A Collaborative Approach to Improve the Performance of SCTP over Wired-cum-Wireless Networks

Simulation-Based Performance Comparison of TCP-Variants over Mobile IPv6-Based Mobility Management Schemes

Session: Transport Protocols

Increasing the Throughput of the HomePNA MAC Protocol

Link Characteristics Estimation for IEEE 802.11 DCF Based WLAN

Fairness and Capacity Trade-Off in IEEE 802.11 WLANs

Session: Security II
A Novel Data Encryption Algorithm Based on Wavelet Filter Banks and the Singular Value Decomposition

Identification of Intrusion Scenarios through Classification, Characterization and Analysis of Firewall Events

SIM-KM: Scalable Infrastructure for Multicast Key Management

Session: High-Speed Networks
Network Survivability Performance Evaluation with Applications in WDM Networks with Wavelength Conversion
Wavelength Rerouting for On-Line Multicast in WDM Networks
Performance Analysis of Multi-Dimensional Packet Classification on Programmable Network Processors

Session: Wireless Networks
Enhanced Internet Connectivity for Hybrid Ad Hoc Networks through Adaptive Gateway Discovery
Regenerating Nodes for Real-Time Transmissions in Multi-Hop Wireless Networks
Avoiding Head of Line Blocking in Directional Antenna

LCN Short Papers (Posters)
BEASTS: An Enterprise Management Tool for Providing Information Survivability in Dynamic Heterogeneous Networked Environments
New Bandwidth-Control Design: Policer for Probable Packet Discard (PPPD)
Auction-Based Admission Control and Pricing for Priority Services
Performance Evaluation of Multi-Fractal Nature of TCP Traffic with RED Gateway
Security Issues in PIM-SM Link-Local Messages
Synergetic Positioning Architecture for Location-Dependent Services
Design and Implementation of Application-Based Secure VLAN
Improving TCP Reordering Robustness in Multipath Networks
Efficient Multicast Source Authentication Using Layered Hash-Chaining Scheme
QoS Control Scheme Guaranteeing the Delay, Jitter and Throughput in the IP Router
Multi-Server Content Distribution Scheme Using Erasure Codes
Addressing the Weak Link between Layer 2 and Layer 3 in the Internet Architecture
On-Demand Node-Disjoint Multipath Routing in Wireless Ad Hoc Networks
QoS Enabled Broadband Access through Optical Rings
MAGNA: Modeling and Generating Network Attacks
A Parallel IP-Address Forwarding Approach Based on Partitioned Lookup Table Techniques
The Research of Formal Specification of Intrusion Detection Rules
SCTP vs TCP: Performance Comparison in MANETs
Decoupling Loss Differentiation and Loss Recovery to Ensure Security and Performance
AUM - An IPv6 Based Approach for Micromobility
Application of Intelligent Agent in Network Payment Security
EmNetS Workshop
Keynote (EmNetS-I)
Autonomous Mobile Networks
Applications, Platforms and Real-World Experience
Wireless Sensor Devices for Animal Tracking and Control
Contiki - A Lightweight and Flexible Operating System for Tiny Networked Sensors
Sensor/Actuator Networks Supporting Agents for Distributed Energy Management
Report from the Field: Results from an Agricultural Wireless Sensor Network
Sensor Deployment, Localization, Control and Coordination
Walking GPS: A Practical Solution for Localization in Manually Deployed Wireless Sensor Networks
Gateway Placement for Latency and Energy Efficient Data Aggregation
Dynamic Control and Power Management Algorithm for Continuous Wireless Monitoring in Sensor Networks
Application-Based Collision Avoidance in Wireless Sensor Networks
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Distributed Techniques for Area Computation in Sensor Networks
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Sympathy: A Debugging System for Sensor Networks
ElectricCow: A Simulator for Mobile Sensors and Actuators Mounted on Herds of Cattle
Snow Monitoring with Sensor Networks
An Efficient Pseudo Random Number Generator for Low-Power Sensor Networks
Collaborative Data Fusion Tracking in Sensor Networks Using Monte Carlo Methods
Active Tapes: Bus-Based Sensor Networks
Distance-Based Energy Efficient Clustering for Wireless Sensor Networks
Using More Realistic Data Models to Evaluate Sensor Network Data Processing Algorithms
Unifying Micro Sensor Networks with the Internet via Overlay Networking
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