

**The 2008 IEEE International Conference on
Networking, Architecture, and Storage
June 12-14
Chongqing, China**

Advance Program

June 11: Noon-6pm, Registration Desk Open

Day 1: June 12

8:00-8:30am	Breakfast	
8:30-9:00am	Welcome	
9:00-10:00am	Keynote Speech, Dr. Yale Patt	
10:00-10:30	Coffee/Tea Break	
10:30-12:00	Session 1A	Session 1B
Noon-2:00pm	Lunch	
2:00-3:30pm	Session 2A	Session 2B
3:30-4:00pm	Coffee/Tea Break	
4:00-5:30pm	Short Paper Session 3A	Short Paper Session 3B

Day 2: June 13

8:00-8:30am	Breakfast	
8:30-9:30am	Keynote Speech, Dr. Trevor Mudge	
9:30-10:00	Coffee/Tea Break	
10:00-11:30	Session 4A	Session 4B
11:30-2:00pm	Lunch and Industrial Panel/Presentations	
2:00-3:30pm	Session 5A	Session 5B
3:30-4:00pm	Coffee/Tea Break	
4:00-5:30pm	Session 6A	Session 6B
Conference Banquet	Keynote Speech, Dr. Jie Wu Best paper award, best poster award	

**Day 3: June 24
Tour**

Program Overview

June 12	10:30-12:00	
	Session 1A Storage Security and Reliability	Session 1B Mobile Ad Hoc Network
	2:00-3:30pm	
	Session 2A P2P and Replication Service	Session 2B Network Routing and Message Authentication
	4:00-5:30pm	
	Session 3A: short papers I Network	Session 3B: short papers II Storage and Architecture
June 13	10:00-11:30pm	
	Session 4A System Reliability	Session 4B Network Performance Evaluation and Modeling
	2:00-3:30pm	
	Session 5A Networked Storage Systems and Data Management	Session 5B Distributed and Multi-Core Systems
	4:00-5:30pm	
Session 6A Memory and Parallel I/O	Session 6B Network Security	

Detailed Program

Session 1A: Storage Security and Reliability

Secure Remote Storage through Authenticated Encryption	Fangyong Hou, Dawu Gu, Nong Xiao, Yuhua Tang
Reliability Assurance of RAID Storage Systems for a Wide Range of Latent Sector Errors	Ilias Iliadis, Xiao-Yu Hu
Design and Analysis of a Scalable Third-Party Storage Security Protocol	Huang Jianzhong, Xie Changsheng, Zhong Haifeng
Optimal Implementation of Continuous Data Protection (CDP) in Linux Kernel	Xu Li, Changsheng Xie, Qing Yang
Fault Surviving Optimization within Brick Based Storage System	Connor Gray, Michael Hobbs

Session 1B: Mobile Ad Hoc Network

EBEM: An Event-driven Bandwidth Estimation Method for Mobile Ad Hoc Network	Heming Cui, Cong Lin, Yong Xiang
Dynamic Route Diversion in Connectionless Mobile Ad Hoc Networks	Yao H. Ho, Kien A. Hua, Ning Jiang, Fei Xie
A Dynamic Congestion Control Based Multipath Routing Protocol for Video Transmission over Ad Hoc Networks	Yang He, Zhenyong Chen, Yuheng Liu, Zhang Xiong
Joint Topology-Transparent Scheduling and QoS Routing in Mobile Ad Hoc Networks	Yi-Sheng Su, Szu-Lin Su, Jung-Shian Li

Session 2A: P2P and Replication Service

POND: The Power of Zone Overlapping in DHT Networks	Zhiyong Xu, Jizhong Han, Laxmi Bhuyan
Adaptive Consistency Guarantees for Large-Scale Replicated Services	Yijun Lu, Ying Lu, Hong Jiang
Applications of Bloom Filters in Peer-to-peer Systems: Issues and Questions	Hailong Cai, Ping Ge, Jung Wang
An Effective Algorithm for Counting Active Flows Based on Loop Bloom Filter	Yong Sun, Zhibin Zhang, Li Guo, Shuo Bai, Jianlong Tan

Session 2B: Network Routing and Message Authentication

The Mobile Router Forwarding Scheme for Multicast in the NEMO	Long-Sheng Li, Yong-Yu Yang, Jhu-Syuan Mei
Hard Real-Time Communication over Multi-hop Switched Ethernet	Minghu Zhang, Jian Shi, Ting Zhang, Yong Hu
Efficient Event Matching in Publish/subscribe: Based on Routing Destination and Matching History	Xiangfeng Guo, Jun Wei, Dongli Han
A Novel Authentication Mechanism Based on CGA for BU Message Disposal in Mobile IPv6	Yong Feng, Zhongfu Wu, Jiang Zhong, Chunxiao Ye, Kaigui Wu

Session 3A: short papers I: Network

Formation and network chain control in sparse robot ad hoc networks based on potential field	Hong Jiang, Yu Qing Huang, Guo Ying Yang
Peer-assisted Content Delivery Network for Live Streaming: Architecture and Practice	Yu Liu, Hao Yin, Guangxi Zhu, Xuening Liu
A K-hop Based Clustering Algorithm in Ad Hoc Networks	Ge He, Shangbo Zhou, Shan Liu
A Novel Interoperable Model of Distributed UDDI	Libing Wu, Yanxiang He, Dan Wu, Jianqun Cui
A Spam Filter System Based on P2P Architecture	Dafan Dong, Jianzhong Zhang, Ying Wu, Hongbo Lu, Gongyi Wu
A Dynamic Interface Activation Scheme for Vertical Handoffs	Xingwei Wang, Zhongfeng Wen, Yao Lv, Feifei Xu
A Trace-Driven Simulation Study of Load Balancing on Distributed NIDS	Gu Fengna, Zhang Zhibin, Wang Lihong
Formal Proof of the IDOP_SP Protocol Based on the Petri Net	Yingjiu Guo, Chuang Lin, Hao Yin
An EPN-based Method for Web Service Composition	Min GAO, Lily SUN, Zhongfu WU, Feng JIANG
A Cluster Maintenance Algorithm Based on LEACH-DCHS Protocol	Yuhua Liu, Jingju Gao, Yongcan Jia, Longquan Zhu
Towards More Reliable Source Routing in Wireless Networks	Imad Jawhar, Zouheir Trabelsi, Jameela Al-Jaroodi

Session 3B: short papers II: Storage and Architecture

Revocation in an Attribute-Based Delegation Model	Chunxiao Ye, Zhongfu Wu, Jiang Zhong, Yong Feng
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Intrusion Detection Based on Density Level Sets Estimation
Design of a Secure Network Mirroring System for Data Sharing

A Network Memory Architecture Model and Performance Analysis

Storage Aware Resource Allocation for Grid Data Streaming Pipelines

A Precise Interrupts Mechanism Based on Micro-Operation Tracing of Instruction Boundary for Embedded Processor

Design and Implement of Snapshots in Linux Block Level

An Ontology-based Virtual Storage System

Enabling RDMA capability of InfiniBand network for Java applications

Component-based Network Protocol Architecture for Multi-core

Zhong Jiang, Wen Luosheng, Feng Yong, Ye Chun Xiao

Huang Jianzhong, Xie Changsheng, Zhong Haifeng

Li Liu, Mingyu Chen, Yungang Bao, Jianwei Xu, Jianping Fan

Wen Zhang, Junwei Cao, Yisheng Zhong, Lianchen Liu, Cheng Wu

Jun Zhang, Xiao-Ya Fan, Song-He Liu

Huaiyang Li, Changsheng Xie, Yan Liu, Qiang Cao

Zhaobin Liu, Haitao Li

Wan Huang, Jizhong Han, Jin he, Lisheng Zhang, Yao Lin

Chen Tianzhou, Cao Mingteng, Shi Qingsong

Session 4A: System Reliability

Accurate Performance Modeling and Guidance to the Adoption of an Inconsistency Detection Framework

Yijun Lu, Xueming Li, Hong Jiang

Characterization of Behavior Anomalies in a Representative File System

Qiang Zou, Dan Feng

Modeling Threshold Secret Sharing Schemes in Ad Hoc Networks

Weifeng Chen, Huan Li

A Novel Adaptive Failure Detector for Distributed Systems

Dong Tian, Kaigui Wu, Xueming Li

Session 4B: Network Performance Evaluation

Fibre Channel Arbitrated Loop - performance analysis of loop tenancy overhead

Mikkel Hagen, Elizabeth Varki

Experimental Analysis of InfiniBand Transport Services on WAN

Weikuan Yu, Nageswara S.V. Rao, Jeffrey S. Vetter

An Evaluation of Transport Protocols in Peer-to-Peer Media Streaming

Jeng-Yuh Chang, Xiao Su

An Energy-Efficient Clustering Technique for Wireless Sensor Networks

Guan Xin, Wang YongXin, Liu Fang

Session 5A: Networked Storage Systems and Data Management

An Analytical Performance Model of IP-SAN	Min Wang, Liu Liu, Wei Xu, Lu Xu
Spatial-Locality-Aware Virtual Storage Devices with Tangible QoS Expressions	Pei Yan, Song Jiang
Goal-based Dependability Analysis and Improvement Framework for Network Storage Systems	Hua Wang, Ke Zhou
VDMS: A Vector Data Management System for GIS Applications	Xuhui Liu, Shubin Zhang, Jin He, Jizhong Han, Chengde Han, Zhiyong Xu

Session 5B: Distributed and Multi-Core Systems

Efficient and Locality-aware Resource Management in Wide-area Distributed Systems	Haiying Shen, Yingwu Zhu, Wing-Ning Li
Performance Characterization of a Dual Quad-Core Based Application Oriented Networking System	Abdul Waheed, Jianxun Jason Ding, Jingnan Yao, Laxmi N. Bhuyan
Software Barrier Performance on Dual Quad-Core Opterons	Jie Chen, William Watson III
A Pollution Alleviative L2 Cache Replacement Policy for Chip Multiprocessor Architecture	Jun Zhang, Xiao-Ya Fan, Song-He Liu

Session 6A: Memory and Parallel I/O

MemoryIO: An Extended I/O Technology in Embedded Systems	Xiaojun Yang, Tao Liu, Fei Chen, Hailiang Cheng
Parallel Job Scheduling with Overhead: A Benchmark Study	Richard A. Dutton, Weizhen Mao, Jie Chen, William Watson III
Rectangularly Multi-Module Memory System with Table-Based Dynamic Addressing Scheme	Jinbo Xu, Yong Dou, Jie Zhou
An e-Learning Services Discovery Algorithm Based on User Satisfaction	ZHU Zheng-zhou, WU Zhong-fu, ZHOU Shang-bo

Session 6B: Network Security

On the Security of Group Signature Scheme and Designated Verifier Signature Scheme

Jianhong Zhang, Qin Geng

Event-based Trust Framework Model in Wireless Sensor Networks

Haiguang Chen, Huafeng Wu ,
Jinchu Hu, Chuanshan Gao

A Novel Embedded Accelerator for Online Detection of Shrew DDoS Attacks

Hao Chen, Yu Chen

Research on Trust Evaluation Model of Grid Services

Xiaohua Dong, Zhongfu Wu