

ICDCS 2006

The 26th International Conference on Distributed Computing Systems

July 4-7, 2006 - Lisboa, Portugal

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Program-at-a-Glance

4th Tue	All Day	Workshops: ADSN, DABI, IWDDS, DEBS, IBC, MNSA, IWSAWC, SIUMI, P2P/DAKS, WWASN (See schedule on page 6)		
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5th Wednesday	8:45-10:00	Welcome & Keynote 1: Prof. Willy Zwaenepoel		
	Coffee break			
	10:30-12:00	Session 1A: Middleware	Session 1B: Network Optimization	Session 1C: Autonomic Computing
	Lunch			
	13:30-15:00	Session 2A: Security	Session 2B: Peer-to-Peer I	Session 2C: Fault-Tolerance
	Coffee break			
	15:30-17:00	Session 3A: Distributed Processing I	Session 3B: Publish-Subscribe	Session 3C: Web and Collaborative Systems
	17:30-18:30	Panel		
18:30-20:00	Reception			

6th Thursday	9:00-10:00	Keynote 2: Krishan Sabnani		
	Coffee break			
	10:30-12:00	Session 4A: Distributed Processing II	Session 4B: Storage	Session 4C: Byzantine Fault-Tolerance
	Lunch			
	13:30-15:00	Session 5A: Countering Attacks	Session 5B: Consistency and Cache Management	Session 5C: Content Delivery
	Coffee break			
	15:50-17:30	Session 6A: Routing in MANETs	Session 6B: Sensor Networks	Session 6C: Networks
	19:00-22:00	Banquet		

7th Friday	9:00-10:00	Keynote 3: Amir Herzberg		
	Coffee break			
	10:30-12:00	Session 7A: Secure Communication	Session 7B: Wireless Networks	Session 7C: Peer-to-Peer II
	Lunch			
	13:30-15:00	Session 8A: Reliable and Secure Sensor Networks	Session 8B: Streaming	Session 8C: Network Characterization
	Coffee break			
15:30-17:00				

Wednesday, 5th July: ICDCS Technical Sessions

8:45 Welcome

9:00-10:00 Keynote 1: Professor Willy Zwaenepoel

10:00-10:30 Coffee break

10:30-12:00	Session 1A: Middleware	Session 1B: Network Optimization	Session 1C: Autonomic Computing
	Analysis of the Message Waiting Time for the FioranoMQ JMS Server	A Loss and Queuing Delay Controller for Router Buffer Management	Autonomic Management of Stream Processing Applications via Adaptive Bandwidth Control
	Highly Available Long Running Transactions and Activities for J2EE Applications	The Confluent Capacity of the Internet: Congestion vs. Dilation	SysProf: Online Distributed Behavior Diagnosis through Fine-grain System Monitoring
	A Bridging Framework for Universal Interoperability in Pervasive Systems	FastFlow: Architecture and Algorithm for Accurate Traffic Flow Characterization	A Hierarchical Optimization Framework for Autonomic Performance Management of Distributed Computing Systems

12:00-13:30 Lunch

13:30-15:00	Session 2A: Security	Session 2B: Peer-to-Peer I	Session 2C: Fault-tolerance
	Loud And Clear: Human-Verifiable Authentication Based on Audio.	WhoPay: A Scalable and Anonymous Payment System for Peer-to-Peer Environments.	Computing in the Presence of Timing Failures.
	Design and Performance Evaluation of a Proxy-based Java Rewriting Security System.	Robust Accounting in Decentralized P2P Storage Systems.	Failures Classification and Analysis of the Java Virtual Machine.
	Store, Forget, and Check: Using Algebraic Signatures to Check Remotely Administered Storage	Elastic Routing Table with Probable Performance for Congestion Control in DHT Networks	Efficient Incremental Optimal Chain Partition of Distributed Program Traces

15:00-15:30 Coffee break

15:30-17:00	Session 3A: Distributed Processing I	Session 3B: Publish-Subscribe	Session 3C: Web and Collaborative Systems
	An Empirical Evaluation of Work Stealing with Parallelism Feedback.	A Semantic Overlay for Self-* Peer-to-Peer Publish/Subscribe.	Controlling Quality of Service in Multi-Tier Web Applications.
	Load Unbalancing to Improve Performance under Autocorrelated Traffic.	PastryStrings: A Comprehensive Content-Based Publish/Subscribe DHT Network.	File System Support for Collaboration in the Wide Area.
	Scalable Parallel Algorithm and Implementation for Biclustering over Large Distributed Datasets	Utility Optimization for Event-Driven Distributed Infrastructures.	A Secure and Efficient Large Scale Distributed System for Object Sharing.

Break

17:30-18:30 Panel

18:30-19:30 Reception

Thursday, 6th July: ICDCS Technical Sessions

9:00-10:00

Keynote 2: Krishan Sabnani

10:00-10:30 Coffee break

10:30-12:00

Session 4A: Distributed Processing II

Distributed Computing for Efficient Hyperspectral Imaging Using Fully Heterogeneous Networks of Workstations.

On Scheduling Expansive and Reductive Dags for Internet-Based Computing.

Reputation-Based Scheduling on Unreliable Distributed Infrastructures.

Session 4B: Storage

On Store Placement for Response Time Minimization in Parallel Disks.

PRINS: Optimizing Performance of Reliable Internet Storages.

Genesis: A Scalable Self-evolving Root-cause Analysis Framework for Storage Systems.

Session 4C: Byzantine Fault-tolerance.

Tolerating Byzantine Faulty Clients in a Quorum System.

Sharing Memory between Byzantine Processes using Policy-Enforced Tuple Spaces.

Practical Byzantine Group Communication

12:00-13:30 Lunch

13:30-15:00

Session 5A: Countering Attacks

Spoof Detection for Preventing DoS Attacks against DNS Servers.

Provenance-Aware Tracing of Worm Break-in and Contaminations: A Process Coloring Approach.

A DoS Resilient Flow-level Intrusion Detection Approach for High-speed Networks.

Session 5B: Consistency and Cache Management.

Maintaining Strong Cache Consistency for Domain Name System.

Application-Tailored Cache Consistency for Wide-Area File Systems.

COCA: A Locality-Aware Cooperative Cache Management Protocol to Improve Network File System Performance

Session 5C: Content Delivery.

Efficient Formation of Edge Cache Groups for Dynamic Content Delivery.

Content-based Dissemination of Fragmented XML Data.

Crew: A Gossip-based Flash-Dissemination System

15:00-15:30 Coffee break

15:30-17:30

Session 6A: Routing in MANETs

Analysis of Clustering and Routing Overhead for Clustered Mobile Ad Hoc Networks.

Mitigating the Flooding Waves Problem in Energy-Efficient Routing for MANETs.

High-Throughput Multicast Routing Metrics in Wireless Mesh Networks.

GMP: Distributed Geographic Multicast Routing in Wireless Sensor Networks.

Session 6B: Sensor networks

Scalable and robust aggregation techniques for extracting statistical information in sensor networks.

Distributed Minimal Time Convergecast Scheduling in Wireless Sensor Networks.

In-Network Outlier Detection in Wireless Sensor Networks.

POS: A Practical Order Statistics Service for Wireless Sensor Networks.

Session 6C: Networks.

Overlay Multicast with Inferred Link Capacity Correlations.

On Estimating Tight Link Bandwidth Characteristics over Multi-Hop Paths.

Interplay of ISPs: Distributed Resource Allocation and Revenue Maximization.

Routing in Networks with Low Doubling Dimension.

19:00-22:00

Banquet

Friday, 7th July: ICDCS Technical Sessions

9:00-10:00 Keynote 3: Amir Herzberg

10:00-10:30 Coffee break

10:30-12:00	<p>Session 7A: Secure Communication.</p> <p>Fast data access over asymmetric channels using fair and secure bandwidth sharing.</p> <p>M2: Multicasting Mixes for Efficient and Anonymous Communication.</p> <p>Dynamic Access Control in a Content-based Publish/Subscribe System with Delivery Guarantees.</p>	<p>Session 7B: Wireless Networks.</p> <p>On the Access Pricing and Network Scaling Issues of Wireless Mesh Networks.</p> <p>Modeling and Analysis of Generalized Slotted-Aloha MAC Protocols in Cooperative, Competitive and Adversarial Environments.</p> <p>Detecting MAC Layer Back-off Timer Violations in Mobile Ad Hoc Networks</p>	<p>Session 7C: Peer-to-peer II.</p> <p>Delay-Bounded Range Queries in DHT-based Peer-to-Peer Systems.</p> <p>Search-and-Discover in Mobile P2P Network Databases.</p> <p>Improving Traffic Locality in BitTorrent via Biased Neighbor Selection.</p>
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12:00-13:30 Lunch

13:30-15:00	<p>Session 8A: Reliable and secure sensor networks.</p> <p>Self-Protections for Sensor Networks.</p> <p>Sluice: Secure Dissemination of Code Updates in Sensor Networks.</p> <p>Fault-Tolerant Clustering in Ad Hoc and Sensor Networks.</p>	<p>Session 8B: Streaming.</p> <p>ASAP: an AS-Aware Peer-Relay Protocol for High Quality VoIP with Low Overhead.</p> <p>Adaptive Control of Extreme-Scale Stream Processing Systems.</p> <p>Geedy is Good: On Service Tree Placement for In-Network Stream Processing.</p>	<p>Session 8C: Network Characterization.</p> <p>A Hierarchical Approach to Internet Distance Prediction.</p> <p>Stable and Accurate Network Coordinates.</p> <p>Cycling Through a Dangerous Network: A Simple Efficient Strategy for Black Hole Search.</p>
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Conference Ends

Workshops-at-a-Glance

4 th Tuesday	8:00-10:00	MNSA	IWSAWC	ADSN	WWASN	IWDDS/ DABI	DEBS	IBC	P2P/DAKS
	Coffee break								
	10:30-12:30	MNSA	IWSAWC	ADSN	WWASN	IWDDS/ DABI	DEBS	IBC	P2P/DAKS
	Lunch								
	13:30-15:30	MNSA	IWSAWC	ADSN	WWASN	IWDDS/ DABI	DEBS	SIUMI	
Coffee break									
16:00-18:00	MNSA	IWSAWC	ADSN	WWASN	IWDDS/ DABI	DEBS	SIUMI		

ADSN: International Workshop on Assurance in Distributed Systems and Networks

IWDDS: International Workshop on Dynamic Distributed Systems

DABI: International Workshop on Distributed Applications for B2B Integration

DEBS: The 5th International Workshop on Distributed Event-Based Systems

IBC: Second International Workshop on Incentive-Based Computing

MNSA: The 8th International Workshop on Multimedia Network Systems and Applications

IWSAWC: The 6th International Workshop on Smart Appliances and Wearable Computing

SIUMI: Second International Workshop on Services and Infrastructure for the Ubiquitous and Mobile Internet

P2P/DAKS: Workshop on P2P Data and Knowledge Sharing

WWASN: Workshop on Wireless Ad hoc and Sensor Networks