



Systems and Storage Conference - Program

Day 1

Monday, May 30, 2011

<p>09:00 Registration: Lobby of IBM Research - Haifa main building</p> <p>09:30 Welcoming Remarks and Best Paper Awards: Yaron Wolfsthal (IBM), Paula Ta-Shma (IBM) and Liuba Shrira (Brandeis University)</p> <p>10:00 Keynote Talk: Pushing the Boundaries of Distributed Storage Systems <i>Hank Levy (University of Washington)</i></p> <p>11:00 Coffee Break</p> <p>Session 1: Virtualization and distributed environments- Chair: Sivan Toledo (Tel Aviv University)</p> <p>11:30 FlurryDB: A Dynamically Scalable Relational Database with Virtual Machine Cloning, <u>Best Student Paper</u> <i>Michael Mior and Eyal de Lara (University of Toronto)</i></p> <p>12:00 Distributed and Fault-Tolerant Execution Framework for Transaction Processing <i>Toshio Suganuma, Akira Koseki, Kazuaki Ishizaki, Yohei Ueda, Ken Mizuno (IBM), Daniel Silva (Amazon.com, Inc), Hideaki Komatsu, and Toshio Nakatani (IBM)</i></p> <p>12:30 Inter-Cloud Mobility of Virtual Machines <i>Kenneth Nagin, David Hadas, Zvi Dubitzky, Alex Glikson, Irit Loy, Benny Rochwerger, and Liran Schour (IBM)</i></p>	<p>13:00 Highlights Track (OSDI 2010 Best Paper) - The Turtles Project: Design and Implementation of Nested Virtualization <i>Muli Ben-Yehuda, Michael D. Day, Zvi Dubitzky, Michael Factor, Nadav Har'El, Abel Gordon, Anthony Liguori, Orit Wasserman, and Ben-Ami Yassour (IBM)</i></p> <p>13:30 Lunch</p> <p>Session 2 - Adaptation and performance- Chair: Erez Zadok (Stony Brook University)</p> <p>14:30 Case Studies in Hardware XPath Acceleration – Industry Track Paper <i>Dorit Nuzman, David Maze, Victor Kaplansky, Sergei Dyshel, Matthias Nicola, Glenn Marcy, and Alon Dayan (IBM)</i></p> <p>15:00 Efficiently Identifying Working Sets in Block I/O Streams <i>Avani Wildani (UC Santa Cruz), Lee Ward (Sandia National Laboratories), and Ethan Miller (UC Santa Cruz)</i></p> <p>15:30 Trading off Quality for Throughput Using Content Adaptation in Web Servers <i>Michael Gopshtein and Dror Feitelson (Hebrew University)</i></p> <p>16:00 Poster Session</p> <p>17:00 Invited Talk - IBM Watson and the Jeopardy Challenge <i>Dafna Sheinwald and David Carmel (IBM)</i></p>
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Systems and Storage Conference - Program

Day 2

Tuesday, May 31, 2011

<p>09:00 Registration</p> <p>09:30 Keynote Talk: Efficient Monitoring of Large Distributed Systems <i>Daniel Keren (Haifa University)</i></p> <p>10:30 Coffee Break and Networking Session</p> <p>Session 3 – Saving Energy- Chair: Eyal De Lara (University of Toronto)</p> <p>11:30 An exact algorithm for energy-efficient acceleration of task trees on CPU/GPU architectures, <u>Best Paper</u> <i>Mark Silberstein (Technion – Israel Institute of Technology) and Naoya Maruyama (Tokyo Institute of Technology)</i></p> <p>12:00 On the Energy Consumption and Performance of Systems Software <i>Zhichao Li, Radu Grosu, Priya Sehgal, Scott A. Smolka, Scott D. Stoller, and Erez Zadok (Stony Brook University)</i></p> <p>12:30 Sustainable Predictive Storage Management: On-line Grouping for Energy and Latency Reduction <i>David Essary (University of Pittsburgh) and Ahmed Amer (Santa Clara University)</i></p>	<p>13:00 Highlights Track (Infocom 2011) - On Power and Throughput Tradeoffs of WiFi and Bluetooth in Smartphones <i>Roy Friedman, Alex Kogan, and Yevgeny Krivolapov (Technion – Israel Institute of Technology)</i></p> <p>13:30 Lunch</p> <p>Session 4 – Memory Issues- Chair: Krzysztof Zielinski (AGH Krakow)</p> <p>14:30 SCert: Speculative Certification in Replicated Software Transactional Memories <i>Nuno Carvalho (INESC-ID/IST), Paolo Romano (INESC-ID), and Luis Rodrigues (INESC-ID/IST)</i></p> <p>15:00 Coping With Context Switches in Lock-Based Software Transactional Memory <i>Yehuda Afek, Yoav Cohen, and Adam Morrison (Tel Aviv University)</i></p> <p>15:30 Memory System Performance in a NUMA Multicore Multiprocessor <i>Zoltan Majo and Thomas R. Gross (ETH Zurich)</i></p> <p>16:00 Social Event: Tour of Caesarea and Dinner</p>
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Systems and Storage Conference - Program

Day 3

Wednesday, June 1, 2011

<p>08:30 Registration</p> <p>09:00 Keynote Talk: Challenges in Building A Commercial Deduplication Storage System <i>Kai Li (Princeton University)</i></p> <p>10:00 Coffee Break</p> <p>Session 5 – Storage- Chair: Dror Feitelson (Hebrew University)</p> <p>10:30 Prototyping a High-Performance Low-Cost Solid-State Disk <i>Evgeny Budilovsky (Tel Aviv University, IBM), Sivan Toledo (Tel Aviv University), and Aviad Zuck (Tel Aviv University, IBM)</i></p> <p>11:00 The Pitfalls of Deploying Solid-State Drive RAIDs <i>Nikolaus Jeremic, Gero Mühl (University of Rostock), Anselm Busse, and Jan Richling (TU Berlin)</i></p>	<p>11:30 Towards SIRF: Self-contained Information Retention Format - Industry Track Paper <i>Simona Rabinovici-Cohen (IBM), Mary G. Baker (HP), Roger Cummings (Symantec Research Labs), Samuel A. Fineberg (HP), and John Marberg (IBM)</i></p> <p>12:00 Anchor-driven Subchunk Deduplication <i>Bartłomiej Romański, Łukasz Heldt, Wojciech Kilian, Krzysztof Lichota, and Cezary Dubnicki (9LivesData, LLC)</i></p> <p>12:30 Closing Remarks: Yaron Wolfsthal (IBM)</p> <p>12:35 Distribution of boxed lunches</p> <p>14:00 1st CS-EE Conference on Computer Architecture, Systems and Image Sciences at the Technion</p>
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