The 14th International Symposium on Parallel and Distributed Computing

June 29-July 1, 2015 - Limassol, Cyprus

http://www.cyprusconferences.org/ispdc2015/

Conference Programme

Monday June 29, 2015

| 08:00 – 09:00 Registration | | |
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| | Opening remarks | |
| 00.00 | Invited Talk 1 | |
| 09:15 – 10:30 | Getting Ready for Approximate Computing: Trading Parallelism for Accuracy for DSS Workloads | |
| | Pedro Trancoso | |
| 10:30 – 11:00 | Coffee break | |
| 11:00 – 12:30 | Session 1: GPU | |
| | Chair: Oleg Sukhoroslov | |
| | GPU-Accelerated Digital Halftoning by the Local Exhaustive Search Hiroaki Kouge, Yasuaki Ito, and Koji Nakano | |
| | Analyzing Memory Access on CPU-GPGPU Shared LLC Architecture Jianliang Ma, Licheng Yu, Tianzhou Chen, and Minghui Wu | |
| | DART-CUDA: A PGAS Runtime System for Multi-GPU Systems Lei Zhou and Karl Fuerlinger | |
| 12:30 – 14:00 | Lunch break | |
| | Session 2: Security | |
| | Chair: Stelios Sotiriadis | |
| 14:00 – 15:30 | High-Speed Security Analytics Powered by In-Memory Machine Learning Engine Andrey Sapegin, Marian Gawron, David Jaeger, Feng Cheng, and Christoph Meinel | |
| | A New Secure Virtual Connector Approach for Communication within Large Distributed Systems Gabriel Risterucci, Traian Muntean, and Léon Mugwaneza | |
| | A Parallel Method for Scalable Anonymization of Transaction Data Neelam Memon, Grigorios Loukides, and Jianhua Shao | |
| 15:30 – 16:00 | Coffee break | |
| 16:00 – 17:30 | Session 3: Optimization and program verification | |
| | Chair: Mariana Mocanu | |
| | XFOR: Filling the Gap between Automatic Loop Optimization and Peak Performance Imen Fassi and Philippe Clauss | |
| | Optimizing Data Accesses for Breadth-First Search on Shared Memory Computers Ziqian Hu and Huashan Yu | |
| | A Symbolic Approach to Permission Accounting for Concurrent Reasoning Marieke Huisman and Wojciech Mostowski | |
| 17:30 – 18:00 | Position Paper | |
| | The Distributed Mobile Cloud Supporting the Internet of Things Dan Grigoras and Pawel Gepner | |
| 19:00 | Welcome Reception | |
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| 08:00 - 09:00 | |
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| 09:00 – 10:30 | Invited Talk 2 |
| | dataClay: The Integration of Persistent Data, Parallel Programming Models, and True Sharing |
| | Toni Cortes |
| 10:30 - 11:00 | Coffee break |
| 11:00 – 12:30 | Session 4: Multicore Programming |
| | Chair: Ausif Mahmood |
| | Multilevel Task Parallelism Exploitation on Asymmetric Sets of Tasks and When Using Third- Party Tools Diogo Telmo Neves |
| | Cache Affinity Optimization Techniques for Scaling Software Transactional Memory Systems on Multi-CMP Architectures Kinson Chan, King Tin Lam, and Cho-Li Wang |
| | Contention Adapting Search Trees Konstantinos Sagonas and Kjell Winblad |
| 12-30 - 14:00 | |
| 14:00 – 15:30 | Session 5: Routing and Parallel Hardware Algorithms |
| | Chair: Dan Grigoras |
| | A Simulator for Analysis of Opportunistic Routing Algorithms Cristian Chilipirea, Andreea-Cristina Petre, Ciprian Dobre, Florin Pop, and George Suciu |
| | Maximally Adaptive, Deadlock-Free Routing in Spidergon-Donut Network for Large Multicore NOCs |
| | Marwah Albughdar and Ausif Mahmood |
| | Optimal Parallel Hardware K-Sorter and Top K-Sorter, with FPGA Implementations Naoyuki Matsumoto, Koji Nakano, and Yasuaki Ito |
| 15:30 – 16:00 | |
| 16:00 – 18:00 | Session 6: Cloud Computing |
| | Chair: Cho-Li Wang |
| | Personalized Motion Sensor Driven Gesture Recognition in the FIWARE Cloud Platform Alexandros Preventis, Kostas Stravoskoufos, Stelios Sotiriadis, and Euripides G.M. Petrakis |
| | Robust Cloud Management of MANET Checkpoint Sessions Hazzaa Naif Alshareef and Dan Grigoras |
| | Soil Management Services in CLUeFARM Adil Serrouch, Mariana Mocanu, and Florin Pop |
| | Resource Efficiency to Partition Big Streamed Graphs Víctor Medel Gracia and Unai Arronategui Arribalzaga |
| 19:30 | Conference Dinner (Meet at lobby) |
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Wednesday July 1, 2015

15:30 - 16:00 Closing remarks

| wednesday July 1, 2015 | | |
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| 09:00 – 10:30 | Session 7: Scheduling | |
| | Chair: Diogo Telmo Neves | |
| | Investigating the Resilience of Dynamic Loop Scheduling in Heterogeneous Computing Systems Nitin Sukhija, Ioana Banicescu, and Florina M. Ciorba | |
| | Schedule Dynamic Multiple Parallel Jobs with Precedence-Constrained Tasks on Heterogeneous Distributed Computing Systems Liangjiao Liu, Guoqi Xie, Liu Yang, and Renfa Li | |
| | BOLAS: Bipartite-Graph Oriented Locality-Aware Scheduling for MapReduce Tasks Ruini Xue, Shengli Gao, Lixiang Ao, and Zhongyang Guan | |
| 10:30 - 11:00 | Coffee break | |
| 11:00 – 12:30 | Session 8: Storage, file systems and web services | |
| | Chair: Florina Ciorba | |
| | Availability in the Flexible and Adaptable Distributed File System Danilo Costa Marin Segura, Matheus Della Croce Oliveira, Thiago Kenji Okada, Renata Spolon Lobato, Aleardo Manacero Jr., Lúcio Rodrigo de Carvalho, and Roberta Spolon | |
| | Rethinking HBase: Design and Implementation of an Elastic Key-Value Store over Log-Structured Local Volumes Giorgos Saloustros and Kostas Magoutis | |
| | A Web-Based Platform for Publication and Distributed Execution of Computing Applications Oleg Sukhoroslov, Sergey Volkov, and Alexander Afanasiev | |
| 12:30 – 14:00 | Lunch break | |
| 14:00 – 15:30 | Invited Talk 3 | |
| | Intel Architecture and Technology for Future HPC System Building Blocks | |
| | Pawel Gepner | |