The 34th International Conference on Distributed Computing Systems (ICDSC 2014)

Final Program

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Monday, June 30th

9:00-17:00 (Check individual workshop programs for exact start and end times)	Workshop 1 ADSN 2014 (The 13th International Workshop on Assurance in Distributed Systems and Networks)	Workshop 2 HotPOST'14 (The 6th International Workshop on Hot Topics in Peer-to- peer computing and Online Social neTworking)	Workshop 3 DCPerf 2014 (The 4th international workshop on Data Center Performance)	Workshop 4 DASec 2014 (The First International Workshop on Big Data Analytics for Security)
	Room: A204,	Room: A301,	Room: A206,	Room: A202,
	Building A	Building A	Building A	Building A

Tuesday, July 1st

9:00- 9:30	Welcome remarks Location: Salón de Actos, Building C
9:30- 10:30	Keynote: "How virtualization and SDN are changing the world" Pablo Molinero (Ericsson, Product Manager, SDN and Policy Control) Location: Salón de Actos, Building C
10:30- 11:00	Coffee Break

13:00- 14:00 14:00- 15:30	Session A2: Big Data & Data Management Chair: Daudjee, Khuzaima Location: Room B1, Building B. "Exploring the Use of Diverse Replicas for Big Location Tracking Data". Ye Ding, Haoyu Tan, Wuman Luo and Lionel M. Ni.	"Thermal Modeling for a HVAC Controlled Real-life Auditorium". Yong Fu, Mo Sha, Chengjie Wu, Andrew Kutta, Anna Leavey, Chenyang Lu, Humberto Gonzalez, Weining Wang, Bill Drake, Yixin Chen, Pratim Biswas. The Session B2: Mobile and Automotive networks Chair: Raghu K. Ganti Location: Room B2, Building B. "SOR: An Objective Ranking System Based on Mobile Phone Sensing". Xiang Sheng, Jian Tang, Jing Wang, Chenfei Gao, Guoliang Xue.
	"WOHA: Deadline-Aware Map-Reduce Workflow Scheduling Framework over Hadoop Cluster".	"The tempo-spatial information dissemination properties of mobile opportunistic networks with Levy mobility". Shengling Wang, Xia Wang, Xiuzhen Cheng,

Coffee Break

15:30-16:00

16:00- 18:00	Session A3: Big Data Chair: Antonio Fernandez Location: Room B1, Building B.	Session B3: Privacy Chair: Soriente, Claudio Location: Room B2, Building B.
	"Adaptive Partitioning of Large-Scale Dynamic Graphs". Luis M. Vaquero, Felix Cuadrado, Dionysios Logothetis, Claudio Martella. "Sim-watchdog: leveraging temporal similarity for anomaly detection in dynamic graphs". Guanhua Yan and Stephan Eidenbenz. "On Limits of Travel Time Predictions: Insights from a New York City Case Study". Raghu Ganti, Mudhakar Srivatsa, Tarek Abdelzaher.	"e-PPI: Locator Service in Information Networks with Personalized Privacy Preservation". Yuzhe Tang, Ling Liu, Arun Iyengar, Kisung Lee and Qi Zhang. "Enabling Privacy-preserving Image-centric Social Discovery". Xingliang Yuan, Xinyu Wang, Cong Wang, Anna Squicciarini and Kui Ren. "Providing Efficient Privacy-Aware Incentives for Mobile Sensing". Qinghua Li and Guohong Cao.
	"Learning from the Past: Intelligent On-Line Weather Monitoring based on Matrix Completion". Kun Xie, Lele Wang, Xin Wang, Jigang Wen and Gaogang Xie.	"No NAT'd User left Behind: Fingerprinting Users behind NAT from NetFlow Records alone". Nino Vincenzo Verde, Giuseppe Ateniese, Emanuele Gabrielli, Luigi Vincenzo Mancini and Angelo Spognardi.
20:30- 23:00	Recepction Location: Restaurante Samarkanda.	

Wednesday, July 2nd

9:30- 10:30	Keynote: "Cloud 3.0: Industry Transformation on the Cloud" Daniel M. Dias (Director of Cloud Innovation Technologies at the IBM T. J. Watson Research Center) Location: Salón de Actos, Building C
10:30- 11:00	Coffee Break

11:00- 13:00	Session A4: Cloud Data Centers (I) Chair: Flavio Junqueira Location: Room B1, Building B.	Session B4: P2P Chair: Etienne Riviere Location: Room B2, Building B.
	"OpenSample: A Low-latency, Sampling-based Measurement Platform for SDN". Junho Suh, Taekyoung Kwon, Colin Dixon, Wes Felter and John Carter.	"Measuring and Evaluating Live Content Consistency in a Large-Scale CDN". Guoxin Liu, Haiying Shen, Harrison Chandler and Jin Li.
	"Scalable Traffic-Aware Virtual Machine Management for Cloud Data Centers". Fung Po Tso, Konstantinos Oikonomou, Eleni Kavvadia, Dimitrios P. Pezaros.	"MOLStream: A Modular Rapid Development and Evaluation Framework for Live P2P Streaming". Roy Friedman, Alex Libov and Ymir Vigfusson.
	"Energy-Efficient Flow Scheduling and Routing with Hard Deadlines in Data Center Networks". Lin Wang, Fa Zhang, Kai Zheng, Athanasios V. Vasilakos, Shaolei Ren and Zhiyong Liu. "Bandwidth Guarantee under Demand Uncertainty in Multi-tenant Clouds". Lei Yu and Haiying Shen.	"Polystyrene: The Decentralized Data Shape that Never Dies". Simon Bouget, Hoel Kervadec, Anne-Marie Kermarrec, François Taïani. "An Interest-based Per-Community P2P Hierarchical Structure for Short Video Sharing on YouTube". Haiying Shen, Yuhua Lin and Harrison Chandler.
13:00- 14:00	Lui	nch
14:00- 15:30	Session A5: Cloud Data Centers (II) Chair: Roy Friedman Location: Room B1, Building B.	Session B5: Theory (I) Chair: Mikel Larrea Location: Room B2, Building B.
	"Two-Party Fine-Grained Assured Deletion of Outsourced Data in Cloud Systems". Zhen Mo, Yan Qiao and Shigang Chen. "Towards Online, Accurate, and Scalable QoS Prediction for Runtime Service Adaptation". Jieming Zhu, Pinjia He, Zibin Zheng and Michael R. Lyu. "Columbus: Configuration Discovery for Clouds". Rahul Balani, Deepak Jeswani, Dipyaman	"Counting in Anonymous Dynamic Networks under Worst Case Adversary". Giuseppe Antonio Di Luna, Roberto Baldoni, Silvia Bonomi and Ioannis Chatzigiannakis. "The LevelArray: A Fast, Practical Long-Lived Renaming Algorithm". Dan Alistarh, Justin Kopinsky, Alex Matveev and Nir Shavit. "Deterministic Blind Rendezvous in Cognitive Radio Networks".
15:30- 16:00	Banerjee and Akshat Verma. Coffee	Sixia Chen, Alexander Russell, Abhishek Samanta and Ravi Sundaram.

16:00- 17:30	Session A6: OS & Fault-tolerance Chair: Sergio Arévalo	Session B6: Wireless networks (I) Chair: Indranil Gupta
	Location: Room B1, Building B.	Location: Room B2, Building B.
	"Rethinking State-Machine Replication for Parallelism". Parisa Jalili Marandi, Carlos Eduardo Bezerra, Fernando Pedone.	"BOND: Exploring Hidden Bottleneck Nodes in Large-Scale Wireless Sensor Networks". Qiang Ma, Kebin Liu, Tong Zhu, Wei Gong, Yunhao Liu.
	"Propeller: A Scalable Real-Time File-Search Service in Distribute Systems". Lei Xu, Hong Jiang, Lei Tian and Ziling Huang.	"Enhancing Visibility of Network Performance in Large-scale Sensor Networks". Xiaoxu Li, Qiang Ma, Zhichao Cao, Kebin Liu
	"Compiler Driven Automatic Kernel Context	and Yunhao Liu.
	Migration for Heterogeneous Computing". Ramy Gad, Tim Süß, André Brinkmann.	"Domo: Passive Per-Packet Delay Tomography in Wireless Ad-hoc Networks". Yi Gao, Wei Dong, Chun Chen, Jiajun Bu, Tianyu Chen, Mingyuan Xia, Xue Liu, Xianghua Xu.
17:30-	IEEE TDCP	
18:30	Annual Meeting	
20:30-	Banquet	
23:00	Location: Real Café Bernabéu.	

Thursday, July 3rd

9:00-	Session A7: Green Computing	Session B7: Theory (II)
10:30	Chair: Pedro López	Chair: Stefan Schmid
	Location: Room B1, Building B.	Location: Room B2, Building B.
	"Energy Efficient HVAC System with Distributed Sensing and Control". Cheng Li, Zhenjiang Li, Mo Li, Forrest Meggers, Arno Schlueter and Lim Hock Beng.	"Almost Optimal Channel Access in Multi-Hop Networks With Unknown Channel Variables". Yaqin Zhou, Qiuyuan Huang, Fan Li, Xiang-Yang Li, Min Liu, Zhongcheng Li, Zhiyuan Yin.
	"SCAPE: Safe Charging with Adjustable PowEr". Haipeng Dai, Yunhuai Liu, Guihai Chen, Xiaobing Wu and Tian He.	"Shared-Memory Buffer Management for Heterogeneous Packet Processing". Patrick Eugster, Kirill Kogan, Sergey Nikolenko and Alexander Sirotkin.
	"Building Green Cloud Services at Low Cost". Josep Lluís Berral, Íñigo Goiri, Thu D Nguyen, Ricard Gavaldà, Jordi Torres and Ricardo Bianchini.	"Robust Network Tomography in the Presence of Failures". Srikar Tati, Simone Silvestri, Ting He and Thomas La Porta.
10:30- 11:00	Coffee	e Break

WLANs". Churn".	Session A8: Cloud Storage	Session B8: CEP and PubSub
"Client-centric Benchmarking of Eventual Consistency for Cloud Storage Systems". Wojciech Golab, Muntasir Raihan Rahman, Alvin Auyoung, Kimberly Keeton and Indranil Gupta. "MicroFuge: A Middleware Approach to Providing Performance Isolation in Cloud Storage Systems". Akshay Singh, Xu Cui, Benjamin Cassell, Bernard Wong and Khuzaima Daudjee. "S4D-Cache: Smart Selective SSD Cache for Parallel I/O Systems". Shuibing He, Xian-He Sun and Bo Feng. "Will They Blend?: Exploring Big Data Computation atop Traditional HPC NAS Storage". Ellis Wilson, Mahmut Kandemir and Garth Gibson. "Elastic Scaling of a High-Throughput Content Based Publish/Subscribe Engine": Raphaëla Barazzutti, Thomas Heinze, André Martin, Emanuel Onica, Pascal Felber, Christol Fetzer, Zbigniew Jerzak, Marcelo Pasin, Etienn Rivière. Lunch Lunch Session A9: Wireless networks (II) Chair: Malek, Miroslaw Location: Room B1, Building B. "TIM: Fine-Grained Rate Adaptation in WLANS". Guanhua Wang, Shanfeng Zhang, Kaishun Wu, Qian Zhang, Lionel M. Ni "NomLoc: Calibration-free Indoor Localization With Nomadic Access Points". Jiang Xiao, Youwen Yi, Lu Wang, Haochao Li, Zimu Zhou, Kaishun Wu and Lionel M. Ni. "Generic Composite Counting in RFID Systems". Haoxiang Liu, Wei Gong, Lei Chen, Wenbo He, Nan Cine Cluck on Hashing". Nhan Nguyen and Philippas Tsigas.	Chair: André Brinkmann	Chair: Querzoni, Leonardo
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15:30- Coffee Break	_	
		Chair: André Brinkmann Location: Room B1, Building B. "Client-centric Benchmarking of Eventual Consistency for Cloud Storage Systems". Wojciech Golab, Muntasir Raihan Rahman, Alvin Auyoung, Kimberly Keeton and Indranil Gupta. "MicroFuge: A Middleware Approach to Providing Performance Isolation in Cloud Storage Systems". Akshay Singh, Xu Cui, Benjamin Cassell, Bernard Wong and Khuzaima Daudjee. "S4D-Cache: Smart Selective SSD Cache for Parallel I/O Systems". Shuibing He, Xian-He Sun and Bo Feng. "Will They Blend?: Exploring Big Data Computation atop Traditional HPC NAS Storage". Ellis Wilson, Mahmut Kandemir and Garth Gibson. Lu. Session A9: Wireless networks (II) Chair: Malek, Miroslaw Location: Room B1, Building B. "TiM: Fine-Grained Rate Adaptation in WLANs". Guanhua Wang, Shanfeng Zhang, Kaishun Wu, Qian Zhang, Lionel M. Ni "NomLoc: Calibration-free Indoor Localization With Nomadic Access Points". Jiang Xiao, Youwen Yi, Lu Wang, Haochao Li, Zimu Zhou, Kaishun Wu and Lionel M. Ni. "Generic Composite Counting in RFID

16:00-18:00

Session A10: Security

Chair: Nita-Rotaru, Cristina Location: Room B1, Building B.

"Enforcing Location and Time-based Access Control on Cloud-stored Data".

Elli Androulaki, Claudio Soriente, Luka Malisa and Srdjan Capkun.

"Impact Analysis of Topology Poisoning Attacks on Economic Operation of the Smart Power Grid".

Mohammad Rahman, Ehab Al-Shaer and Rajesh Kavasseri.

"Turret: A Platform for Automated Attack Finding in Unmodified Distributed System Implementations".

Hyojeong Lee, Jeff Seibert, Md Endadul Hoque, Charles Killian and Cristina Nita-Rotaru.

"Incremental Deployment Strategies for Effective Detection and Prevention of BGP Origin Hijacks".

Joseph Gersch, Daniel Massey and Christos Papadopoulos.