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PROGRAM

Program-at-a-Glance: please click [here](#)

DAY 1 - 27 September 2017 (Wed)	
07:30 - 08:30	Registration
08:30 - 09:00	Welcome
09:00 - 10:00	Keynote I
10:00 - 10:30	Break
10:30 - 11:30	Keynote II
11:30 - 12:30	Poster Session
12:30 - 13:45	Lunch
13:45 - 15:45	Session I
15:45 - 16:15	Break
16:15 - 18:15	Session II
18:30 - 20:30	Welcome Reception and Poster Display Session
DAY 2 - 28 September 2017 (Thur)	
08:00 - 09:00	Registration
09:00 - 10:00	Keynote III
10:00 - 10:45	Best Paper Presentation
10:45 - 11:15	Break
11:15 - 12:45	Session III
12:45 - 14:00	Lunch
14:00 - 16:00	Session IV
16:00 - 16:30	Break
16:30 - 18:00	PhD Forum
18:00 - 21:30	Banquet
DAY 3 - 29 September 2017 (Fri)	
08:00 - 09:00	Registration

09:00 - 10:30	Panel
10:30 - 10:45	Break
10:45 - 12:45	Session V
12:45 - 13:45	Lunch
13:45 - 15:45	Session VI
15:45 - 16:00	Closing session

Technical Program

Wednesday, 27 September 2017
07:30-08:30 Registration
M1607
08:30-09:00 Opening Ceremony
M1603
09:00-10:00 Keynote I Session Chair: Michael Lyu
M1603
Big Data: Its Science, Industry, and Business Prof. Wei Zhao, University of Macau
10:00-10:30 Coffee Break
10:30-11:30 Keynote II Session Chair: Andrea Ceccarelli
M1603
RAS design for Emerging Technology Dr Xuewen (Sean) Gong, Huawei Technologies
11:30-12:30 Poster Presentation Session Session Chair: Song Guo
M1603
A Greedy-Based Method for Modified Condition/Decision Coverage Testing Criterion <i>Bo-His Li, Chin-Yu Huang</i>
A Resilient Auction Framework for Deadline-Aware Jobs in Cloud Spot Market <i>Abadhan S. Sabyasachi, H M Dipu Kabir, Ahmed M. Abdelmoniem, Subrota K. Mondal</i>
Automated Resource Sharing for Virtualized GPU with Self-Configuration <i>Jianguo Yao, Qiumin Lu, and Zhengwei Qi</i>
Performance Modeling of PBFT Consensus Process for Permissioned Blockchain Network (Hyperledger Fabric) <i>Harish Sukhwani, José M. Martínez, Xiaolin Chang, Kishor S. Trivedi, and Andy Rindos</i>
Detecting TCP-based DDoS Attacks in Baidu Cloud-Computing Data Centers

Jiahui Jiao, Benjun Ye, Yue Zhao, Rebecca J. Stones, Gang Wang, Xiaoguang Liu, Shaoyan Wang, Guangjun Xie

PITR: An Efficient Single-failure Recovery Scheme for PIT-Coded Cloud Storage Systems

Peng Li, Jiaxiang Dong, Xueda Liu, Gang Wang, Zhongwei Li, Xiaoguang Liu

12:30-13:45 Lunch

Kong Chiu Lau, 1/F, Harbour Crystal Centre, 100 Granville Road, Tsim Sha Tsui

13:45-15:45 Session I: Cloud Environments

Session Chair: Lydia Chen

M1603

Fine-Grained Consistency Upgrades for Online Services (Paper 13)

Filipe Freitas, João Leitão, Nuno Preguiça and Rodrigo Rodrigues

A Practical Framework for Privacy-Preserving NoSQL Databases (Paper 53)

Ricardo Macedo, João Paulo, Rogério Pontes, Bernardo Portela, Tiago Oliveira, Miguel Matos and Rui Oliveira

Parameterized and Runtime-tunable Snapshot Isolation in Distributed Transactional Key-value Stores (Paper 97)

Hengfeng Wei, Yu Huang and Jian Lu

Robust Multi-Resource Allocation with Demand Uncertainties in Cloud Scheduler (Paper 111)

Jianguo Yao, Qiumim Lu, Hans-Arno Jacobsen and Haibing Guan

15:45-16:15 Coffee Break

16:15-18:15 Session II: Networks

Session Chair: Paweł T. Wojciechowski

M1603

Stateless Reliable Geocasting (Paper 30)

Jordan Adamek, Mikhail Nesterenko, James Scott Robinson and Sebastien Tixeul

Controlling Cascading Failures in Interdependent Networks under Incomplete Knowledge (Paper 45)

Diman Zad Tootaghaj, Novella Bartolini, Hana Khamfroush and Thomas La Porta

On Availability for Blockchain-Based Systems (Paper 49)

Ingo Weber, Vincent Gramoli, Alex Ponomarev, Mark Staples, Ralph Holz, An Binh Tran and Paul Rimba

A Horizontally Scalable and Reliable Architecture for Location-based Publish-Subscribe (Paper 75)

Bertil Chapuis, Benoît Garbinato and Lucas Mourot

18:30-20:30 Welcome Reception and Poster Display Session

Staff Club Restaurant, 5/F, S Core, PolyU

Thursday, 28 September 2017

08:00-09:00 Registration

M1607

09:00-10:00 Keynote Session III

Session Chair: Jiannong Cao

M1603

Building High Availability IT Services from a Banking IT Perspective

Dr Fred Suk, Bank of China (Hong Kong) Ltd

10:00-10:45 Best Paper Presentation

Session Chair: Jiannong Cao

M1603

Automated Fine Tuning of Probabilistic Self-Stabilizing Algorithms (Paper 19)

Saba Aflaki, Matthias Volk, Borzoo Bonakdarpour, Joost-Pieter Katoen and Arne Storjohann

10:45-11:15 Coffee Break

11:15-12:45 Session III: Algorithms and Protocols

Session Chair: Sara Bouchenak

M1603

On The Robustness of Neural Networks (Paper 1)

El Mahdi El Mhamdi, Rachid Guerraoui and Sébastien Rouault

Reconfiguring Parallel State Machine Replication (Paper 25)

Eduardo Alchieri, Fernando Dotti, Odorico Mendizabal and Fernando Pedone

A Statistical Framework on Software Aging Modeling with Continuous-Time Hidden Markov Model (Paper 80)

Hiroyuki Okamura, Junjun Zheng and Tadashi Dohi

12:45-14:00 Lunch

Kong Chiu Lau, 1/F, Harbour Crystal Centre, 100 Granville Road, Tsim Sha Tsui

14:00-16:00 Session IV: Storage Systems I

Session Chair: Fernando Pedone

M1603

Hybrid-RC: Flexible Erasure Codes with Optimized Recovery Performance and Low Storage Overhead (Paper 7)

Liuqing Ye, Dan Feng, Yuchong Hu and Qing Liu

Correlation-Aware Stripe Organization for Efficient Writes in Erasure-Coded Storage Systems (Paper 8)

Zhirong Shen, Patrick P. C. Lee, Jiwu Shu and Wenzhong Guo

A Simulation Analysis of Reliability in Erasure-Coded Data Centers (Paper 40)

Mi Zhang, Shujie Han and Patrick P. C. Lee

Optimal Storage under Unsynchronized Mobile Byzantine Faults (Paper 54)

Silvia Bonomi, Antonella Del Pozzo, Maria Potop-Butucaru and Sebastien Tixeuil

16:00-16:30 Coffee Break

16:30-18:00 PhD Forum

Session Chair: Sandeep Kulkarni and Haruo Yokota

M1603

Runtime Measurement Architecture for Bytecode Integrity in JVM-based Cloud

Haihe Ba, Huaizhe Zhou, Jiangchun Ren, Zhiying Wang

The Use of Side-channel Attacks on Modern Virtualization Technologies

Andres R. Hernandez Coronado

An End-to-end Log Management Framework for Distributed Systems

Pinjia He

Fault-tolerant pattern formation by multiple robots: a learning approach

Jia Wang, Jiannong Cao, Shan Jiang

18:00-21:30 Banquet

Hung Kee Seafood Restaurant, Shop 6 & 9-10, G/F, Siu Yat Building, Sai Kung Hoi Pong Square, Sai Kung (Please gather at M1607 for group transportation at 18:00)

Friday, 29 September 2017

08:00-09:00 Registration

M1607

09:00-10:30 Panel

M1603

10:30-10:45 Coffee Break

10:45-12:45 Session V: Storage Systems II

Session Chair: Sébastien Tixeuil

M1603

PULP: Achieving Privacy and Utility Trade-off in User Mobility Data (Paper 26)

Sophie Cerf, Vincent Primault, Antoine Boutet, Sonia Ben Mokhtar, Robert Birke, Lydia Y. Chen, Sara Bouchenak, Nicolas Marchand and Bogdan Robu

Incremental elasticity for NoSQL data stores (Paper 36)

Antonis Papaioannou and Kostas Magoutis

CausalSpartan: Causal Consistency for Distributed Data Stores using Hybrid Logical Clocks (Paper 69)

Mohammad Roohitavaf, Murat Demirbas and Sandeep Kulkarni

DottedDB: Anti-Entropy without Merkle Trees, Deletes without Tombstones (Paper 95)

Ricardo Gonçalves, Paulo Sérgio Almeida, Carlos Baquero and Victor Fonte

12:45-13:45 Lunch

Chinese Garden (Staff Restaurant), 4/F, S Core, PolyU

13:45-15:45 Session VI: Security and Privacy

Session Chair: Tadashi Dohi

M1603

Optimal Cyber-Defense Strategies for Advanced Persistent Threats: A Game Theoretical Analysis

(Paper 31)

Jeffrey Acquaviva, Mark Mahon, Bruce Einfalt and Tom Laporta

AutoFlowLeaker: Circumventing Web Censorship through Automation Services (Paper 60)

Shengtuo Hu, Xiaobo Ma, Muhui Jiang, Xiapu Luo and Man Ho Au

An Unsupervised Multi-Detector Approach for Identifying Malicious Lateral Movement (Paper 77)

Atul Bohara, Mohammad A. Nouredine, Ahmed Fawaz and William H. Sanders

Optimal Network Reconfiguration for Software Defined Networks using Shuffle-based Online MTD

(Paper 103)

Jin B. Hong, Seunghyun Yoon, Hyuk Lim and Dong Seong Kim

15:45-16:00 Closing Session

M1603

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Register Now!

• **Important Dates**

- Abstract submission: ~~9 April 2017~~ extended to 23 April 2017
- Full Paper Submission: ~~16 April 2017~~ extended to 23 April 2017
- Authors Notification: 25 June 2017
- Camera-ready: 16 July 2017
- Workshops: 26 September 2017
- Conference: 27-29 September 2017

• **Contact**

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