

## CloudCom-Asia 2016

### Detailed Program

The Hong Kong Polytechnic University (PolyU)

7 – 9 June 2016

Monday, 6 June 2016

#### Registration

PQ305, PolyU  
1400 - 1700

#### Conference Reception

Staff Club Restaurant, 5/F, Core S, PolyU  
1830 - 2030

Tuesday, 7 June 2016

#### Registration

PQ305, PolyU  
0900 - 0915

#### Opening Ceremony

PQ305, PolyU  
0915 - 0930

Prof. Jiannong Cao, General Co-chair  
Prof. Chunming Rong, General Co-chair  
Dr Bin Xiao, Program Co-chair

#### Keynote Session 1 (Chaired by Prof. Chunming Rong)

PQ305, PolyU  
0930 - 1030

##### Scalable Services in the Clouds and Big Data Era

Prof. Albert Y. Zomaya  
(Chair Professor of High Performance Computing & Networking and Australian Research Council Professorial Fellow, School of Information Technologies, The University of Sydney, Australia)

#### Coffee Break

1030 - 1100

#### Session: Cloud Security (Chaired by Dr Bin Xiao)

PQ305, PolyU  
1100 - 1215

##### Smart Home Security Monitor System (Paper ID: 4)

*Xin Hong (Hua Qiao University, China), Chenhui Yang (Xia Men University, China), Chunming Rong (University of Stavanger, Norway)*

##### Forensics as a Service: Three-tier Architecture for Cloud based Forensic Analysis (Paper ID: 5)

*Saurav Nanda, Raymond A Hansen (Purdue University, USA)*

##### Authorization Management in Multi-Cloud Collaboration using Attribute-based Access Control (Paper ID: 13)

*John C. John, Shamik Sural, Arobinda Gupta (IIT Kharagpur, India)*

#### Lunch

Staff Restaurant, 4/F, Core S, PolyU  
1215 - 1400

#### Session: Cloud Architecture (Chaired by Prof. Wenzhan Song)

PQ305, PolyU  
1400 - 1540

##### Framework for Context-aware Computation Offloading in Mobile Cloud Computing (Paper ID: 3)

*Zhanghui Liu, Xuee Zeng, Wensi Huang, Junxin Lin, Xing Chen, Wenzhong Guo (Fuzhou University, China)*

**Service Broker Based on Cloud Service Description Language (Paper ID: 21)**

*Abdul Razaq, Huaglory Tianfield, Peter Barrie (Glasgow Caledonian University, UK), Hong Yue (University of Strathclyde, UK)*

**On Boosting Cloud Service Dependability through Optimized Checkpointing (Paper ID: 23)**

*Subrota K. Mondal, Abadhan S. Sabyasachi, Jogesh K. Muppala (The Hong Kong University of Science and Technology, Hong Kong)*

**Metaheuristic Approaches to Virtual Machine Placement in Cloud Computing: A Review (Paper ID: 29)**

*Dabiah Ahmed Alboaneen, Huaglory Tianfield, Yan Zhang (Glasgow Caledonian University, UK)*

**Coffee Break**

1540 - 1610

**Session: Data Analytics (Chaired by Prof. Gansen Zhao)**

PQ305, PolyU

1610 - 1750

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**The Implementation of Sensor Data Accessing on HBase for Intelligent Indoor Environmental Monitoring Cloud Service (Paper ID: 35)**

*Yun-Ting Wang, Yuan-Pin Chiang, Chien-Heng Wu, Chao-Tung Yang, Shuo-Tsung Chen, Pei-Lun Sun (Tunghai University, Taiwan)*

**Queries over Large-scale Log Data of Hybrid Granularities (Paper ID: 36)**

*Gansen Zhao, Xutian Zhuang, Xinming Wang, Ruihua Nie, Zhirui Liao, Chengchuang Lin, Zhenyu Li (South China Normal University, China)*

**Network Traffic Prediction Mechanism Based on the ARIMA Model (Paper ID: 32)**

*Qingfeng Pan, Xianghan Zheng (Fuzhou University, China), Chunming Rong (University of Stavanger, Norway), Riqing Chen (Fujian Agriculture and Forestry University, China)*

**Comparison of Text Sentiment Analysis based on Machine Learning (Paper ID: 28)**

*Xueying Zhang, Xianghan Zheng (Fuzhou University, China)*

**Conference Banquet**

Hung Kee Seafood Restaurant, Sai Kung

1815 - 2130 (Please gather at Core A, PolyU for group transportation at 1815)

**Wednesday, 8 June 2016**

**Registration**

PQ305, PolyU

0830 - 0845

**Keynote Session 2 (Chaired by Dr Bin Xiao)**

Session Chair: Dr Bin Xiao

PQ305, PolyU

0845 - 0945

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**Using Big Data to Solve Cyber Security Problems**

Prof. Yang Xiang  
(Professor, Deakin University, Australia)

**Keynote Session 3 (Chaired by Prof. Xianghan Zheng)**

Session Chair: Prof. Xianghan Zheng

PQ305, PolyU

0945 - 1045

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**Why Deep Learning Works?**

Prof. Dapeng Oliver Wu (Professor, University of Florida, USA)

**Coffee Break**

1045 - 1115

### Panel Session

PQ305, PolyU  
1115 - 1230

#### Research Trend and Challenge in Cloud Computing and Big Data

Panel Chair: Prof. Jiannong Cao, The Hong Kong Polytechnic University

Panelists:

Prof. Chunming Rong, University of Stavanger, Norway  
Prof. Wenzhan Song, Georgia State University, USA  
Prof. Dapeng Oliver Wu, University of Florida, USA  
Prof. Yang Xiang, Deakin University, Australia  
Prof. Albert Y. Zomaya, The University of Sydney, Australia

### Lunch

Staff Restaurant, 4/F, Core S, PolyU  
1230 - 1400

### Session: Scheduling and Outsourcing Technology (Chaired by Dr Weizhong Qiang)

PQ305, PolyU  
1400 - 1540

#### A Cluster Based Approach for Task Scheduling Across Multiple Programming Systems (Paper ID: 34)

Hongliang Lu (National University of Defence Technology, China), Jiannong Cao, Shailey Chawla, Yuqi Wang (The Hong Kong Polytechnic University, Hong Kong), Saohe Lv and Xiaodong Wang (National University of Defense Technology, China)

#### Securely Outsourced Face Recognition under Federated Cloud Environment (Paper ID: 24)

Yunlu Cai, Chunming Tang (Guangzhou University, China)

#### Correctness Verification of Outsourced Inner Product of Vectors with Error Localization (Paper ID: 17)

Gang Sheng, Chunming Tang (Guangzhou University, China), Hongyan Han (Liaocheng University, China), Ying Yin (Northeastern University, China)

#### Auditing Covert Communication between Applications on Android (Paper ID: 20)

Weizhong Qiang, Shifan Xin, Hai Jin, Xinqiao Lv, Qin Zhang (Huazhong University of Science and Technology, China)

### Coffee Break

1540 - 1610

### Session: Trust Model and Data Protection (Chaired by Dr Xing Chen)

PQ305, PolyU  
1610 - 1750

#### Literature Review of Trust Models for Cloud Computing (Paper ID: 26)

Zafeirola Georgiopolou, Costas Lambrinouidakis (University of Piraeus - Digital Systems, Greece)

#### Highly Efficient Proxy Re-Encryption Schemes for User-End Encrypted Cloud Data Sharing (Paper ID: 31)

Xing Hu (Hunan University of Science and Technology, China), Chunming Tang (Guangzhou University, China), Duncan S. Wong (ASTRI, Hong Kong)

#### MapReduce based framework for searchable encryption (Paper ID: 12)

Vijayaraghavan Varadharajan, Sivakumar Kuppusamy, Krishnan Krishnamoorthy (Infosys Ltd, India)

#### Cloud-based Clusters: Multivariate Optimization Techniques for Resource Performance Prediction (Paper ID: 2)

Jean Steve Hirwa, Mark Stammers (Doubleiq Pty Ltd, Australia), Ulysse Rugwiro, Chunhua Gu (East China University of Science and Technology, China)

Thursday, 9 June 2016

Local Excursion