2017 Services Conference Federation SCF2017

ADVANCE PROGRAM

The 24th IEEE International Conference on Web Services (IEEE ICWS 2017)
http://icws.org

The 14th IEEE International Conference on Services Computing (IEEE SCC 2017)
http://thescc.org

The 10th IEEE International Conference on Cloud Computing (IEEE CLOUD 2017)
http://TheCloudComputing.org

The 6th IEEE International Conference on AI and Mobile Services (IEEE AIMS 2017)
http://theMobileServices.org or http://ai1000.org

The 6th IEEE International Congress on Big Data (IEEE BigData Congress 2017)
http://ieeeBigData.org

The 13th IEEE World Congress on Services (IEEE SERVICES 2017)
http://ServicesCongress.org

The 2nd IEEE International Congress on Internet of Things (IEEE ICIOT 2017)
http://iciot.org

The 1st IEEE International Conference on Edge Computing (IEEE EDGE 2017)
http://theEdgeComputing.org

The 1st IEEE International Conference on Cognitive Computing (IEEE ICCC 2017)
http://theCognitiveComputing.org

SCF 2017 LEADERSHIP TEAM
General Chairs

IEEE ICWS 2017	IEEE SCC 2017
Elisa Bertino, Purdue University, USA *Stephan Reiff-Marganiec, University of Leicester, UK*	*John A. Miller, University of Georgia, USA* *Xiaofei Xu, Harbin Institute of Technology, China*
IEEE CLOUD 2017	**IEEE AIMS 2017**
Bhavani Thuraisingham, University of Texas, Dallas, USA *Yan Wang, Macquarie University, Australia*	*Carl Chang, Iowa State University, USA* *Ernesto Damiani, Universita' degli Studi di Milano, Italy*
IEEE BigData Congress 2017	**IEEE SERVICES 2017**
Peter Chen, Louisiana State University & Carnegie Mellon University, USA **(Honorary General Chair)** *Dennis Gannon, Indiana University, USA* *Sushil K. Prasad, NSF, USA* *Michael Goul, Arizona State University, USA*	*Rong Chang, IBM Research* *Ephraim Feig, TopwHats, USA* *Ling Liu, Georgia Tech, USA*
IEEE ICCC 2017	**IEEE EDGE 2017**
M. Brian Blake, Drexel University, USA *Jeffrey Tsai, Asia University, Taiwan*	*Klara Nahrstedt, University of Illinois at Urbana-Champaign, USA* *Hong Zhu, Oxford Brookes University, UK*
IEEE ICIOT 2017	*Calton Pu, Georgia Tech, USA* *Cesar Gonzales, Retired IBMer, USA*

Program Chairs

ICWS 2017	SCC 2017
Ilkay Altintas,University of California, San Diego, USA *Shiping Chen, CSIRO Data61, Australia*	*Xiaoqing "Frank" Liu, University of Arkansas, USA* *Umesh Bellur, Indian Institute of Technology Bombay, India*
CLOUD 2017	**AIMS 2017**
Geoffrey C. Fox, Indiana University, USA	*Samir Tata, IBM Research – Almaden* *Zhihong Mao, University of Pittsburgh, USA*
BigData Congress 2017	**SERVICES 2017**
George Karypis, University of Minnesota, USA *Jia Zhang, Carnegie Mellon University, USA*	*Rami Bahsoon, The University of Birmingham, UK* *Zhixiong Chen, Mercy College, USA*
ICCC 2017	**EDGE 2017**
Paul P. Maglio, University of California, Merced, USA *Wu Chou, Huawei, USA*	*Andrzej M Goscinski, Deakin University, Australia* *Min Luo, Huawei, USA*
IEEE ICIOT 2017	*Manish Parashar, Rutgers University, USA* *Hemant Jain, University of Tennessee at Chattanooga, USA*

SCF 2017 Honorary and General Chairs
Steve Yau, Arizona State University, USA (**SCF 2017 Honorary General Chair**)
Ephraim Feig, Independent Consultant, USA **(SCF 2017 General Chair)**

Steering Committee
Carl K. Chang, Iowa State University, USA
Ephraim Feig, Independent Consultant, USA
Hemant Jain, University of Wisconsin at Milwaukee, USA
Frank Leymann, University of Stuttgart, Germany
Calton Pu, Georgia Tech, USA
Jeffrey Tsai, Asia University, Taiwan
Liang-Jie Zhang (Chair), Kingdee International Software Group CO., Ltd, China

Program Overview

June 25, 2017 (Sunday)						
IEEE Services Conference Federation (SCF 2017) **(CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017, EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)**						
7:45-18:00	On-Site Registration (Palace Lounge)					
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)					
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters					
Room	*Tapa Ballroom3*	*Tapa Ballroom1*	*Honolulu Suite1*	*Honolulu Suite2*	*Honolulu Suite3*	*Iolani Suite5*	*Iolani Suite6*
8:45-9:45	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	CLOUD Short Paper 1	ICWS Shport Paper 1	SCC Short Paper 1	BigData Congress Short Paper 1
9:45-9:55	AM Break (with coffee)					
9:55-10:55	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	CLOUD Short Paper 2	ICWS Shport Paper 2	SCC Short Paper 2	BigData Congress Short Paper 2
9:55-11:20	AM Break (with refreshments)					
11:20-12:20	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	CLOUD Short Paper 3	ICWS Shport Paper 3	SCC Short Paper 3	BigData Congress Short Paper 3
12:20-13:30	PM Break (with coffee)					
13:30-14:30	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	CLOUD Short Paper 4	ICWS Shport Paper 4	EDGE Short Paper 1	BigData Congress Short Paper 4
14:30-14:40	PM Break (with coffee)					
14:40-15:40	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	CLOUD Short Paper 5	ICCC Short Paper 1	EDGE Short Paper 2	ICIOT Short Paper Session 1
15:40-16:10	PM Break (with refreshments)					
16:10-17:10	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	CLOUD Short Paper 6	ICCC Short Paper 2	EDGE Short Paper 3	Cross Topic Session 1
17:10-18:00	PM Break					
18:00-21:00	**Global Leaders Meeting of Services Society Young Scientist Forum (SSYSF)**					

June 26, 2017 (Monday) **IEEE Services Conference Federation (SCF 2017)** **(CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017,** **EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)**								
7:45-18:00	On-Site Registration (Palace Lounge)							
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)							
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters							
Room	Tapa Ballroom3	Tapa Ballroom1	Honolulu Suite1	Honolulu Suite2	Honolulu Suite3	Iolani Suite5	Iolani Suite6	Iolani Suite7
7:00-8:30	Chair Breakfast; The Board Room; Invitation Only							
8:45-10:30	**IEEE Services Conference Federation (SCF) 2017 Opening** **Opening & Keynote Session Chair: Ephraim Feig** **Opening Talk: The Future of Services Computing (LJ Zhang, Steering Committee Chair of SCF 2017)** **Keynote 1: Parallel Services in Fluid Computing: An ACP based Approach for Computational and Smart Services (Fei-Yue Wang, China)** **(Tapa Ballroom 2)**							
10:30-10:50	AM Break (with refreshments)							
10:50-12:00	**IEEE Services Conference Federation (SCF 2017)** **Keynote 2: From Self-Learning to Knowledge Discovery (Aidong Zhang, State University of New York at Buffalo and National Science Foundation, USA)** **Keynote Session Chair: Ernesto Damiani, University of Milano, Italy** **(Tapa Ballroom 2)**							
12:00-13:00	Lunch (not included)							
13:00-14:00	CLOUD Research 1	CLOUD Applications 1	ICWS Research 1	ICWS Applications 1	SCC Research 1	BigData Congress Research 1	BigData Congress Applications 1	AIMS Research 1
14:00-14:10	PM Break (with coffee)							
14:10-15:10	CLOUD Research 2	CLOUD Applications 2	ICWS Research 2	ICWS Applications 2	SCC Research 2	BigData Congress Research 2	BigData Congress Applications 2	AIMS Research 2
15:10-15:20	PM Break							
15:20-16:30	**IEEE Services Conference Federation (SCF 2017)** **Keynote Panel 1: IoT Reality and Trends (Moderator: Tony Shan, Chief Technologist at Wipro, USA)** **(Tapa Ballroom 2)**							
16:30-16:50	PM Break (with refreshments)							
16:50-18:00	**IEEE Services Conference Federation (SCF 2017)** **Keynote Panel 2: Cloud Computing Status and Future (Moderator: Geoffrey C. Fox, Indiana University, USA)** **(Tapa Ballroom 2)**							
18:00-18:30	PM Break							
18:30-20:00	**The Workshop of Women in Services Computing** **Moderators: Bhavani Thuraisingham, University of Texas - Dallas, USA; Jia Zhang, Carnegie Mellon University, USA** **(Tapa Ballroom 2)**							

June 27, 2017 (Tuesday) IEEE Services Conference Federation (SCF 2017) (CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017, EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)										
7:45-18:00	On-Site Registration (Palace Lounge)										
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)										
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters										
Room	*Tapa Ballroom3*	*Tapa Ballroom1*	*Honolulu Suite1*	*Honolulu Suite2*	*Honolulu Suite3*	*Iolani Suite5*	*Iolani Suite6*	*Iolani Suite7*	*Iolani Suite2*	*Iolani Suite3*	*Iolani Suite4*
8:15-9:15	CLOUD Research 3	CLOUD Applications 3	ICWS Research 3	ICWS Applications 3	SCC Research 3	BigData Congress Research 3	BigData Congress Applications 3	AIMS Research 3	EDGE Research 1	ICIOT Research 1	ICCC Research 1
9:15-9:25	AM Break (with coffee)										
9:25-10:25	CLOUD Research 4	CLOUD Applications 4	SCC Short Paper 4	ICWS Applications 4	SCC Research 4	BigData Congress Research 4	BigData Congress Applications 4	AIMS Research 4	EDGE Research 2	ICIOT Research 2	ICCC Research 2
10:25-10:50	AM Break (with refreshments)										
10:50-12:00	IEEE Services Conference Federation (SCF 2017) Keynote Panel 3: Services Computing in the Era of Big Data (Moderator: Ilkay Altintas, University of California — San Diego, USA) (Tapa Ballroom 2)										
12:00-13:00	Lunch (not included)										
13:00-14:00	CLOUD Research 5	CLOUD Applications 5	ICWS Research 4	ICWS Applications 5	SCC Research 5	BigData Congress Research 5	BigData Congress Applications 5	AIMS Applications 1	EDGE Research 3	ICIOT Research 3	Cross Topic Session 2
14:00-14:10	PM Break (with coffee)										
14:10-15:20	IEEE Services Conference Federation (SCF 2017) Keynote Panel 4: State of the Art in Big Data (Moderator: George Karypis, University of Minnesota, USA) (Tapa Ballroom 2)										
15:20-15:30	PM Break										
15:30-16:30	IEEE Services Conference Federation (SCF 2017) Keynote Panel 5: The Business Impact of the Analytics of Things (Moderator: Hemant Jain, University of Tennessee at Chattanooga, USA) (Tapa Ballroom 2)										
16:30-17:00	PM Break										
17:00-21:00	IEEE Services Conference Federation (SCF 2017) Banquet Dinner (Ticket Only)										

June 28, 2017 (Wednesday) IEEE Services Conference Federation (SCF 2017) (CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017, EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)										
7:45-18:00	On-Site Registration (Palace Lounge)										
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)										
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters										
Room	*Tapa Ballroom3*	*Tapa Ballroom1*	*Honolulu Suite1*	*Honolulu Suite2*	*Honolulu Suite3*	*Iolani Suite5*	*Iolani Suite6*	*Iolani Suite7*	*Iolani Suite2*	*Iolani Suite3*	*Iolani Suite4*
8:15-9:15	CLOUD Research 6	CLOUD Applications 6	ICWS Research 5	ICWS Applications 6	SCC Research 6	BigData Congress Research 6	BigData Congress Applications 6	AIMS Short Paper 1	EDGE Applications 1	ICIOT Applications 1	ICCC Applications 1
9:15-9:25	AM Break (with coffee)										
9:25-10:25	CLOUD Research 7	CLOUD Applications 7	ICWS Research 6	ICWS Applications 7	SCC Research 7	BigData Congress Research 7	BigData Congress Visonary 1	AIMS Short Paper 2	EDGE Applications 2	ICIOT Applications 2	ICCC Applications 2
10:25-10:50	AM Break (with refreshments)										
10:50-12:00	IEEE Services Conference Federation (SCF 2017) Keynote 3: Computing in the Continuum: Harnessing a Pervasive Data Ecosystem (Manish Parashar, Rutgers University, USA) Keynote Session Chair: Ling Liu, Georgia Tech, USA (Tapa Ballroom 2)										
12:00-13:00	Lunch (not included)										
13:00-14:00	CLOUD Research 8	CLOUD Applications 8	ICWS Research 7	ICWS Applications 8	SCC Research 8	BigData Congress Research 8	BigData Congress Applications 7	SERVICES Research 1	EDGE Applications 3	ICIOT Research 4	ICCC Applications 3
14:00-14:10	PM Break (with coffee)										
14:10-15:10	CLOUD Research 9	CLOUD Applications 9	ICWS Research 8	ICWS Applications 9	SCC Research 9	BigData Congress Research 9	BigData Congress Applications 8	SERVICES Research 2	EDGE Applications 4	Cross Topic Session 3	ICCC Applications 4
15:10-15:20	PM Break (with coffee)										
15:20-16:20	CLOUD Research 10	CLOUD Applications 10	ICWS Research 9	ICWS Applications 10	SCC Applications 1	BigData Congress Research 10	BigData Congress Visonary 2	SERVICES Applications 1	EDGE Applications 5	Cross Topic Session 4	ICCC Short Paper 1
16:20-17:00	PM Break (with refreshments)										
17:00-18:00	IEEE Services Conference Federation (SCF 2017) Keynote Panel 6: Non-Functional Challenges for Innovative Services Computing (Moderator: Steve Yau, Arizona State University, USA) (Tapa Ballroom 2)										
18:00-18:30	PM Break										
18:30-20:00	Enjoy a beautiful night in Hawaii.										
20:00-21:30											

June 29, 2017 Thursday IEEE Services Conference Federation (SCF 2017) (CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017, EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)											
7:45-18:00	On-Site Registration (Palace Lounge)										
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)										
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters										
Room	Tapa Ballroom3	Tapa Ballroom1	Honolulu Suite1	Honolulu Suite2	Honolulu Suite3	Iolani Suite5	Iolani Suite6	Iolani Suite7	Iolani Suite2	Iolani Suite3	Iolani Suite4
8:15-9:15	CLOUD Applications 11	CLOUD Applications 12	ICWS Research 10	ICWS Applications 11	SCC Applications 2	SCC Applications 3	BigData Congress Theme 1	SERVICES ETT 2	EDGE Applications 6	CLOUD Visionary 1	ICWS Short Paper 5
9:15-9:25	AM Break (with coffee)										
9:25-10:25	CLOUD Applications 13	SCC Visionary 1	ICWS Research 11	ICWS Applications 12	SCC Applications 4	SCC Applications 5	BigData Congress Theme 2	SERVICES Visionary 1	EDGE Short Paper 4	CLOUD Short Paper 7	ICWS Short Paper 6
10:25-10:50	AM Break (with refreshments)										
10:50-12:00	IEEE Services Conference Federation (SCF 2017) Keynote 4: Big Data Software: What's Next? (Michael J. Franklin, University of Chicago, USA) Keynote Session Chair: Dennis Gannon, Indianna University, USA (Tapa Ballroom 2)										
12:00-13:00	Lunch (not included)										
13:00-14:00	CLOUD Applications 14	CLOUD Applications 15	ICWS Research 12	ICWS Applications 13	SCC Applications 6	SCC Applications 7	BigData Congress Theme 3	SERVICES Short Paper 1	EDGE Short Paper 5	ICIOT Short Paper 2	ICWS Short Paper 7
14:00-14:10	PM Break (with coffee)										
14:10-15:10	CLOUD Applications 16	CLOUD Applications 17	ICWS Research 13	ICWS Applications 14	SCC Applications 8	SCC Applications 9	CLOUD Research 11	SERVICES ETT 1	EDGE Short Paper 6	Cross Topic Session 5	ICWS Short Paper 8
15:10-15:20	PM Break (with coffee)										
15:20-16:30	IEEE Services Conference Federation (SCF 2017) Keynote 5: Business and Social Impact of Services based on IOTs and AI (Hemant Jain, The University of Tennessee at Chattanooga, USA) Keynote Session Chair: Samir Tata, IBM Research, USA (Tapa Ballroom 2)										
16:30-17:00	PM Break (with refreshments)										
17:00-18:00	IEEE Services Conference Federation (SCF 2017) Best Paper / Best Student Paper Award Ceremony (Tapa Ballroom 2)										
18:00-18:30	PM Break										
18:30-20:00	IEEE Services Conference Federation (SCF 2017) Organizing Committee Meeting (Invitation Only)										

June 30, 2017 Friday

IEEE Services Conference Federation (SCF 2017)
(CLOUD 2017, ICWS 2017, BigData Congress 2017, SCC 2017, EDGE 2017, ICCC 2017, ICIOT 2017, AIMS 2017, SERVICES 2017)

7:45-18:00	On-Site Registration (Palace Lounge)						
8:15-18:00	IEEE Body of Knowledge on Services Computing Initiative (Presentation Recording)						
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters						
Room	Tapa Ballroom3	Tapa Ballroom1	Honolulu Suite1	Honolulu Suite2	Honolulu Suite3	Iolani Suite5	Iolani Suite6
8:15-9:15	CLOUD Applications 18	CLOUD Applications 19	ICWS Research 14	ICWS Applications 15	ICWS Applications 17	SCC Applications 10	ICCC Applications 5
9:15-9:25	AM Break (with coffee)						
9:25-10:25	ICWS Research 16	CLOUD Applications 20	ICWS Research 15	ICWS Applications 16	ICWS Applications 18	Cross Topic Session 6	Cross Topic Session 7
10:25-10:45	AM Break (with refreshments)						
10:45-12:00	IEEE Services Conference Federation (SCF 2017) Closing Session & 2018 Announcements & Lucky Draw (Tapa Ballroom 2)						
12:05	Have a great trip home! See you again in 2018 in US!						

** Cross Topic Session (CTS): Per author requests, some papers will be presented in CTS instead of their originally assigned sessions based on topics. Papers to be presented in CTS are marked with ** together with the date to be presented.

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Online Reliability Prediction Via Long Short Term Memory For Service-Oriented Systems (ICWS2017-1011)

Hongbing Wang (Southeast University, CN) Zhengping Yang (Southeast University, CN) Qi Yu (College of Computing and Information Sciences, US)

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Marwa Daagi (University of Mannouba, TN) Ali Ouni (UAE University, AE) Marouane Kessentini (University of Michigan, US) Mohamed Mohsen Gammoudi (University of Mannouba, TN) Salah Bouktif (UAE University, AE)

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Lingyan Zhang (Beijing University of Posts and Telecommunications, CN) Shangguang Wang (Beijing University of Posts and Telecommunications, CN) Fangchun Yang (Beijing University of Posts and Telecommunications, CN) Rong Chang (IBM T.J. Watson Research Center, US)

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Constraint-Driven Dynamic Workflow For Automation Of Big Data Analytics Based On Graphplan (ICWS2017-1039)

T. H. Akila S. Siriweera (University of Aizu, JP) Incheon Paik (University of Aizu, JP) Banage T. G. S. Kumara (Sabaragamuwa University, LK)

Session 14: Service Recommendation IV (06/30 Friday, 8:15-9:15; Honolulu Suite1)

Recommending Services For New Mashups Through Service Factors And Top-K Neighbors (ICWS2017-1040)

Priyanka Samanta (Rochester Institute of Technology, US) Xumin Liu (Rochester Institute of Technology, US)

Productrec: Product Bundle Recommendation Based On User's Sequential Patterns In Social Networking Service Environment (ICWS2017-1041)

Wenli Yu (Southwest University, CN) Li Li (Southwest University, CN) Jingyuan Wang (Southwest University, CN) Shiping Chen (CSIRO, AU) Xiaofei Xu (Southwest University, CN) Dengbao Wang (Southwest University, CN)

GTRM: A Top-N Recommendation Model For Smartphone Applications (ICWS2017-1042)

Nengjun Zhu (Shanghai Jiao Tong University, CN) Jian Cao (Shanghai Jiao Tong University, CN)

Session 15: Engineering Better Service (06/30 Friday, 9:25-10:25; Honolulu Suite1)

Expert As A Service: Software Expert Recommendation Via Knowledge Domain Embeddings In Stack Overflow (ICWS2017-1043)

Chaoran Huang (UNSW Sydney, AU) Lina Yao (UNSW Sydney, AU) Xianzhi Wang (Singapore Management University, SG) Boualem Benatallah (UNSW Sydney, AU) Quan Z Sheng (Macquarie University, AU)

Formulating Criticality-Based Cost-Effective Monitoring Strategy For Multi-Tenant Service-Based Systems (ICWS2017-1044)

Yanchun Wang (Swinburne University of Technology, AU) Qiang He (Swinburne University of Technology, AU) Dayong Ye (Swinburne University of Technology, AU) Yun Yang (Swinburne University of Technology, AU)

Light Weight Key-Value Store For Efficient Services On Local Distributed Mobile Devices (ICWS2017-1045)

Changlong Li (University of Science and Technology of China, CN) Hang Zhuang (University of Science and Technology of China, CN) Bo Xu (University of Science and Technology of China, CN) Jiali Wang (University of Science and Technology of China, CN) Chao Wang (University of Science and Technology of China, CN) Xuehai Zhou (University of Science and Technology of China, CN)

Session 16: Quality of Service II (06/30 Friday, 9:25-10:25; Tapa Ballrom3)

On The Value Of Quality Of Service Attributes For Detecting Bad Design Practices (ICWS2017-1046)

Hanzhang Wang (University of Michigan, US) Marouane Kessentini (University of Michigan, US) Taghreed Hassouna (University of Michigan, US) Ali Ouni (UAE University, AE)

EAaaS: Edge Analytics As A Service (ICWS2017-1047)

Xiao Min Xu (IBM Research-China) Sheng Huang (IBM Research-China) Lance Warren Feagan (IBM Research-China) Yao liang Chen (IBM Research-China) Yun Jie Qiu (IBM Research-China) Yu Wang (IBM Research-China)

Detecting Refactorings Among Multiple Web Service Releases: A Heuristic-Based Approach (ICWS2017-1048)

Marouane Kessentini (University of Michiga,n US) Hanzhang Wang (University of Michiga, US)

ICWS Applications Track

Session 1: Service Detection and Process (06/26 Monday, 13:00-14:00; Honolulu Suite2)

Log-Based Abnormal Task Detection And Root Cause Analysis For Spark (ICWS2017-1049)

Siyang Lu (University of Central Florida, US) Liqiang Wang (University of Central Florida, US)

Identifying Key Resources In A Social Network Using F-Pagerank (ICWS2017-1050)

Imam Mustafa Kamal (Pusan National University, KR) Hyerim Bae (Pusan National University, KR) Ling Liu (Georgia Institute of Technology, US) Yulim Choi (Pusan National University, KR)

Natural Language Processing Service Based On Stroke-Level Convolutional Networks For Chinese Text Classification (ICWS2017-1051)

Hang Zhuang (University of Science and Technology of China, CN) Chao Wang (University of Science and Technology of China, CN) Changlong Li (University of Science and Technology of China, CN) Qingfeng Wang (University of Science and Technology of China, CN) Xuehai Zhou (University of Science and Technology of China, CN)

Session 2: Service Data (06/26 Monday, 14:10-15:10; Honolulu Suite2)

Saas For Automated Job Performance Appraisals Using Service Technologies And Big Data Analytics (ICWS2017-1052)

I-Ling Yen (UTD, US) Farokh Bastani (UTD, US) Yongtao Huang (UTD, US) Yuqun Zhang (SUSTech, CN) Xin Yao (SUSTech, CN)

Evaluation And Trade-Offs Of Graph Processing For Cloud Services (ICWS2017-1053)

Chongchong Xu (USTC, CN) Jinhong Zhou (USTC, CN) Yuntao Lu (USTC, CN) Fan Sun (USTC, CN) Lei Gong (USTC, CN) Chao Wang (USTC, CN) Xi Li (USTC, CN) Xuehai Zhou (USTC, CN)

MURS: Mitigating Memory Pressure In Service-Oriented Data Processing Systems (ICWS2017-1054)

Xuanhua Shi (Huazhong University of Science and Technology, CN) Xiong Zhang (Huazhong University of Science and Technology, CN) Ligang He (University of Warwick, UK) Hai Jin (Huazhong University of Science and Technology, CN) Zhixiang Ke (Huazhong University of Science and Technology, CN) Song Wu (Huazhong University of Science and Technology, CN)

Session 3: Service Selection and Localization (06/27 Tuesday, 8:15-9:15; Honolulu Suite2)

How Web Services Can Be Tolerant To Intruders Through Diversification? (ICWS2017-1055)

Georges Ouffoué (Université Paris Sud, FR) Fatiha Zaïdi (Université Paris Sud, FR) Ana Cavalli (Montimage Paris, FR) Mounir Lallali (Université Bretagne Occidentale, FR)

Probability Matrix Of Request-Solution Mapping For Efficient Service Selection (ICWS2017-1056)

Ruilin Liu (School of Computer Science and Technology, CN) Xiaofei Xu (School of Computer Science and Technology, CN) Zhongjie Wang (School of Computer Science and Technology, CN) Quan Z. Sheng (The University of Adelaide Adelaide, AU) Hanchuan Xu (School of Computer Science and Technology, CN)

Indoor Localization Service Based On Hybrid Fingerprint Map (ICWS2017-1057)

Yijin Wang (Nanjing University of Posts and Telecommunications, CN) Xiaolong Xu (Nanjing University of Posts and

Telecommunications, CN)

Session 4: QoS-oriented Service Discovery (06/27 Tuesday, 9:25-10:25; Honolulu Suite2)

QoS Based Faramework For Configurable IaaS Cloud Service Discovery (ICWS2017-1058)
Jalel Eddine Hajlaoui (University of Sousse, TN) Mohamed Nazih Omri (University of Sousse, TN) Djamal Benslimane (Lyon 1 University, FN) Mahmoud Barhamgi (Lyon 1 University, FN)
Blockchain Based Data Integrity Service Framework For Iot Data (ICWS2017-1059)
Bin Liu (Data61, AU) Xiao Liang Yu (Data61, AU) Liming Zhu (Data61, AU) Shiping Chen (Data61, AU) Xiwei Xu (Data61, AU)
Fuzzy QoS Modeling Of IT Maintenance Tickets (ICWS2017-1060)
Suman Roy (Infosys Ltd, IN) Durga Prasad Muni (Infosys Ltd, IN) Adrija Bhattacharya (University of Calcutta, IN) Dipanjan Dutta (Infosys Ltd, IN) Navin Budhiraja (Infosys Ltd, IN)

Session 5: Service Application I (06/27 Tuesday, 13:00-14:00; Honolulu Suite2)

A Map-Matching Service Designed For Courier Trajectories (ICWS2017-1061)
Jiu Wen (Peking University, CN) Yanchun Sun (Peking University, CN)
Real-Time Soft Resource Allocation In Multi-Tier Web Service Systems (ICWS2017-1062)
Xudong Zhao (Shandong University, CN) Jiwei Huang (Peking University, CN) Lei Liu (Shandong University, CN) Yuliang Shi (Shandong University, CN) Shijun Liu (Shandong University, CN) Calton Pu (Georgia Institute of Technology, US) Lizhen Cui (Shandong University, CN)
Characterizing The Impacts Of Application Layer DDoS Attacks (ICWS2017-1063)
Muhui Jiang (The Hong Kong Polytechnic University, HK) Chenxu Wang (The Hong Kong Polytechnic University, HK) Xiapu Luo (The Hong Kong Polytechnic University, HK) Tony Miu (The Hong Kong Polytechnic University, HK) Ting Chen (The Hong Kong Polytechnic University, HK)

Session 6: Service Selection and Evaluation (06/28 Wednesday, 8:15-9:15; Honolulu Suite2)

Social-Sensor Cloud Service Selection (ICWS2017-1064)
Tooba Aamir (RMIT University, AU) Athman Bouguettaya (The University of Sydney, AU) Hai Dong (RMIT University, AU) Abdelkarim Erradi (Qatar University, QA) Rachid Hadjidj (Qatar University, QA)
Subjective Evaluation Of Market Driven Cloud Services (ICWS2017-1065)
Sameera Jayaratna (Swinburne University of Technology, AU) Athman Bouguettaya (The University of Sydney, AU) Hai Dong (RMIT University, AU) A.K. Qin (Swinburne University of Technology, AU) Abdelkarim Erradi (Qatar University, QA)
Extraction Of Microservices From Monolithic Software Architectures (ICWS2017-1066)
Genc Mazlami (University of Zurich, CH) Jürgen Cito (University of Zurich, CH) Philipp Leitner (University of Zurich, CH)

Session 7: Web Service via Machine Learning (06/28 Wednesday, 9:25-10:25; Honolulu Suite2)

A Machine Learning-Based Approach To Detect Web Service Design Defects (ICWS2017-1067)
Ali Ouni (UAE University, AE) Marwa Daagi (University of Mannouba, TN) Marouane Kessentini (University of Michigan, US) Salah Bouktif (UAE University, AE) Mohamed Mohsen Gammoudi (University of Mannouba, TN)
Improving Web Services Desing Quality Using Heuristic Search And Machine Learning (ICWS2017-1068)
Marouane Kessentini (University of Michigan, US) Hanzhang Wang (University of Michigan, US) Josselin Dea (University of Michigan, US) Ali Ouni (UAE University, AE)
RestSep: Towards A Test-Oriented Privilege Partitioning Approach For Restful APIs (ICWS2017-1069)
Yang Luo (Peking University, CN) Tian Puyang (Peking University, CN) Xiaoning Sun (IBM Development Laboratory, CN) Qingni Shen (Peking University, CN) Yahui Yang (Peking University, CN) Anbang Ruan (University of Oxford, UK) Zhonghai Wu (Peking University, CN)

Session 8: Service Applications II (06/28 Wednesday, 13:00-14:00; Honolulu Suite2)

Multi-Client Verifiable Computation Service For Outsourced Data (ICWS2017-1070)
   Ying Wu (Chinese Academy of Sciences, CN) Rui Zhang (Chinese Academy of Sciences, CN) Rui Xue (Chinese Academy of Sciences, CN) Ling Liu (Georgia Institute of Technology, US)
From Open API To Semantic Specifications And Code Adapters (ICWS2017-1071)
   Simon Schwichtenberg (Paderborn University, DE) Christian Gerth (Hochschule Osnabrück, DE) Gregor Engels (Paderborn University, DE)
A Service-Based Approach To Situational Correlation And Analyses Of Stream Sensor Data (ICWS2017-1072)
   Zhongmei Zhang (Tianjin University, CN)

Session 9: Service Composition I (06/28 Wednesday, 14:10-15:10; Honolulu Suite2)

A Cross-Layer Security Solution For Publish/Subscribe-Based IoT Services Communication Infrastructure (ICWS2017-1073)
   Yang Zhang (BUPT CN) Li Duan (USTB)
Multi-Constrained Top-K Graph Pattern Matching In Contextual Social Graphs (ICWS2017-1074)
   Qun Shi (Soochow University, CN) Guanfeng Liu (Soochow University, CN) An Liu (Soochow University, CN) Zhixu Li (Soochow University, CN) Xiaofang Zhou (The University of Queensland, AU)
Automated Holistic Service Composition: Modeling And Composition Reasoning (ICWS2017-1075)
   Wei Zhu (UTD, US) Farokh Bastani (UTD, US) I-Ling Yen (UTD, US) Jicheng Fu (University of Central Oklahoma, US) Yuqun Zhang (SUSTech, CN)

Session 10: Service Applications III (06/28 Wednesday, 15:20-16:20; Honolulu Suite2)

FB-Diff: A Feature Based Difference Detection Algorithm For Process Models (ICWS2017-1076)
   Jiaxing Wang (Zhejiang University, CN) Bin Cao (Zhejiang University, CN) Jing Fan (Zhejiang University, CN) Tianyang Dong (Zhejiang University, CN)
Security Mechanism For Packaged Web Applications (ICWS2017-1077)
   Kaushik Das (Samsung R&D Institute India, IN) Prabhavathi Perumal (Samsung R&D Institute India, IN) Joy Bose (Samsung R&D Institute India, IN)
Gig Services Recommendation Method For Fuzzy Requirement Description (ICWS2017-1078)
   Zhiying Tu (Harbin Institute Of Technology, CN) Xiaofei Xu (Harbin Institute Of Technology, CN) Qian Zhang (Harbin Institute Of Technology, CN) Hanming Zhang (Harbin Institute Of Technology, CN) Zhongjie Wang (Harbin Institute Of Technology, CN)

Session 11: Service Applications IV (06/29 Thursday, 8:15-9:15; Honolulu Suite2)

RedLiner: Service Capacity Measurement By Redlining With Live Production Traffic (ICWS2017-1079)
   Jingshu Xia (LinkedIn, US) Zhenyun Zhuang (LinkedIn, US) Anant Rao (LinkedIn, US) Haricharan Ramachandra (LinkedIn, US) Yi Feng (LinkedIn, US) Ramya Pasumarti (LinkedIn, US)
Early Air Pollution Forecasting As A Service: An Ensemble Learning Approach (ICWS2017-1080)
   Chao Zhang (Beijing Normal University; IBM Research China, CN) Junchi Yan (IBM Research China, CN) Yunting Li (Beijing Municipal Environmental Monitoring Center, CN) Feng Sun (Beijing Municipal Environmental Monitoring Center, CN) Jinghai Yan (Beijing Municipal Environmental Monitoring Center, CN) Dawei Zhang (Beijing Municipal Environmental Monitoring Center, CN) Xiaoguang Rui (IBM Research China, CN) Rongfang Bie (Beijing Normal University, CN)
Enabling Multi-Topic And Cross-Language Browsing Using Web-Semantics Service (ICWS2017-1081)
   Sailesh Kumar Sathish (Samsung R&D Institute India, IN) Anish Patankar (Samsung R&D Institute India, IN) Nimesh Priyodit (Samsung R&D Institute India, IN)

Session 12: Service Identification and Prediciton (06/29 Thursday, 9:25-10:25; Honolulu Suite2)

User Requirements Based Service Identification For Big Data (ICWS2017-1082)

Haiyan Wang (Nanjing University of Posts & Telecommunications, China) Han Zhang (Nanjing University of Posts & Telecommunications, China)

A Location And Reputation Aware Matrix Factorization Approach For Personalized Quality Of Service Prediction (ICWS2017-1083)

Shun Li (Chongqing University, CN) Junhao Wen (Chongqing University, CN) Fengji Luo (University of Sydney, AU) Tian Cheng (Chongqing University, CN) Qingyu Xiong (Chongqing University, CN)

Sentiment Analysis As A Service: A Social Media Based Sentiment Analysis Framework (ICWS2017-1084)

Kashif Ali (Royal Melbourne Institute of Technology, AU), Athman Bouguettaya (The University of Sydney, AU), Hai Dong (Royal Melbourne Institute of Technology, AU) Abdelkarim Erradi (Qatar University, QA), Rachid Hadjidj (Qatar University, QA)

Session 13: Service Composition II (06/29 Thursday, 13:00-14:00; Honolulu Suite2)

Linking Services To Websites By Leveraging Semantic Data (ICWS2017-1085)

Dennis Wolters (Paderborn University, DE) Stefan Heindorf (Paderborn University, DE) Jonas Kirchhoff (Paderborn University, DE) Gregor Engels (Paderborn University, DE)

A Bayesian Nash Equilibrium For QoS-Aware Web Service Composition (ICWS2017-1086)

Puwei Wang (Renmin University of China, CN) Tao Liu (Renmin University of China, CN) Ying Zhan (Guizhou University of Finance and Economics, CN) Xiaoyong Du (Renmin Unversity of China, CN)

'Learning Relevance' As A Service For Improving Search Results In Discussion Forums (ICWS2017-1087)

Shubham Atreja (IBM Research India, IN) Shivali Agarwal (IBM Research India, IN) Gaargi Dasgupta (IBM Research India, IN) Dennis Perpetua (IBM, US)

Session 14: Service Recommendation I (06/29Tuesday, 14:10-15:10; Honolulu Suite2)

Learning Transportation Mode Choice For Context-Aware Services With Directed-Graph-Guided Fused Lasso From GPS Trajectory Data (ICWS2017-1088)

Xiaolu Zhu (Peking University, CN) Jinglin Li (Peking University, CN) Zhihan Liu (Peking University, CN) Fangchun Yang (Peking University, CN)

A Hierarchical Categorization Approach For System Operation Services (ICWS2017-1089)

Wei Chen (Chinese Academy of Sciences, CN) Peixing Xu (Chinese Academy of Sciences, CN) Wensheng Dou (Chinese Academy of Sciences, CN) Guoquan Wu (Chinese Academy of Sciences, CN) Jun Wei (Chinese Academy of Sciences, CN)

Hierarchical Rnn Networks For Structured Semantic Web Api Model Learning, Extraction And Search (ICWS2017-1090)

Shengpeng Liu (Zhejiang University, CN) Ying Li (Zhejiang University, CN) Guangyu Sun (Binhai Zhejiang University, CN) Binbin Fan (Zhejiang University, CN) Shuiguang Deng (Zhejiang University, CN) Jianwei Yin (Zhejiang University, CN)

Session 15: Web Service (06/30 Friday, 8:15-9:15; Honolulu Suite2)

WSO: Developer-Oriented Transactional Orchestration Of Web-Services (ICWS2017-1091)

Avraham Leff (IBM Research, US) James Rayfield (IBM Research, US)

Grouping Users Using A Combination-Based Clustering Algorithm In The Service Environment (ICWS2017-1092)

Yan Wang (Inner Mongolia University, CN) Jiantao Zhou (Inner Mongolia University, CN) Xinyuan Li (Inner Mongolia University, CN) Xiaoyu Song(Portland State University, US)

I Know You Are Watching Me: Stackelberg-Based Adaptive Intrusion Detection Strategy For Insider Attacks In The Cloud (ICWS2017-1093)

Omar Abdel Wahab (Concordia University, CA) Jamal Bentahar (Concordia University, CA) Hadi Otrok (Khalifa University, AE) Azzam Mourad (Lebanese American University, LB)

Session 16: Service Combination and Business (06/30 Friday, 9:25-10:25; Honolulu Suite2)

On Automating Decentralized Multi-Step Service Combination (ICWS2017-1094)
Patrick Philipp (KIT, DE) Achim Rettinger (KIT, DE) Maria Maleshkova (KIT, DE)
Improving Web Service Clustering Through A Novel Ontology Generation Method By Domain Specificity (ICWS2017-1095)
Rupasingha Arachchilage Hiruni Madhusha Rupasingha (University of Aizu, JP) Incheon Paik (University of Aizu, JP) Banage Thenne Gedara Samantha Kumara (Sabaragamuwa University of Sri Lanka, LK)
Correctness Verification For Service-Based Business Processes (ICWS2017-1096)
Pengbo Xiu (Macquarie University, AU) Weiliang Zhao (Macquarie University, AU) Jian Yang (Macquarie University, AU)

Session 17: Service Composition III (06/30 Friday, 8:15-9:15; Honolulu Suite3)

An Approach Towards Task Abstraction And Aggregation In Business Processes (ICWS2017-1097)
Lei Han (Macquarie University, AU) Weiliang Zhao (Macquarie University, AU) Jian Yang (Macquarie University, AU)
PD-TRP: A Service Composition Approach For The Personalized And Optimized Door-To-Door Travel Plan Recommendation (ICWS2017-1098)
Yiqun Hua (Shanghai Jiao Tong University, CN) Jian Cao (Shanghai Jiao Tong University, CN) Qi Gu (Shanghai Jiao Tong University, CN) Yudong Tan (Ctrip Company, CN)
Automatically Learning User Preferences For Personalized Service Composition (ICWS2017-1099)
Yu Zhao (Queen's University, CA) Shaohua Wang (Queen's University, CA) Ying Zou (Queen's University, CA) Joanna Ng (IBM Canada, CA) Tinny Ng (IBM Canada, CA)

Session 18: Service Pattern and Interoperability (06/30 Friday, 9:25-10:25; Honolulu Suite3)

Ews: A Pattern Prediction-Based Elastic Workflow Service In The Cloud (ICWS2017-1100)
Yan Yao (Shanghai Jiao Tong University, CN) Jian Cao (Shanghai Jiao Tong University, CN) Yusheng Jiang (Shanghai Jiao Tong University, CN)
Intense: Interoperability Testing As A Service (ICWS2017-1101)
Bruno Martins (University of Coimbra, PT) Nuno Laranjeiro (University of Coimbra, PT) Marco Vieira (University of Coimbra, PT)

ICWS Short Paper Track

Session 1: Service Applications beyond the Web I (06/25 Sunday, 8:45-9:45; Honolulu Suite3)
15 minutes for each paper.

Proactive Personalized Services In Large-Scale IoT-Based Healthcare Application (ICWS2017-1102)
Shuqing He (Peking University, CN) Bo Cheng (Peking University, CN) Yuze Huang (Peking University, CN) Li Duan (Peking University, CN) Junliang Chen (Peking University, CN)
GenServ: Genome Sequencing Services On Scalable Energy Efficient Accelerators (ICWS2017-1103)
Chao Wang (USTC, CN) Haijie Fang (USTC, CN) Shiming Lei (USTC, CN) Lei Gong (USTC, CN) Aili Wang (USTC, CN) Xi Li (USTC, CN) Xuehai Zhou (USTC, CN)
SmartDODS: A Smart Dynamic Order Dispatch System For Short-Distance Instant Logistics Service (ICWS2017-1104)
Yi-ming Wei (Peking University, CN) Xiu-quan Qiao (Peking University, CN) Jun-liang Chen (Peking University, CN) Yue-zhong Feng (SHBJ Information Technology Co., Ltd., CN) Chao Wang (SHBJ Information Technology Co., Ltd., CN)

Session 2: Service Capability (06/25 Sunday, 9:55-10:55; Honolulu Suite3)

15 minutes for each paper.

SES-LSH: Shuffle-Efficient Locality Sensitive Hashing For Distributed Similarity Search (ICWS2017-1105)
Dongsheng Li (National University, CN) Wanxin Zhang (National University of Defense Technology, CN) Siqi Shen (College of Computer, CN) Yiming Zhang (College of Computer, CN)
Genetic-Based Configurable Cloud Resource Allocation In QoS-Aware Business Process Development (ICWS2017-1106)
Emna Hachicha (Telecom SudParis/ Paris Saclay, FR) Karn Yongsiriwit (Telecom SudParis / Paris Saclay, FR) Mohamed Sellami (ISEP Paris, FR) Walid Gaaloul (Telecom SudParis / Paris Saclay, FR)
An Online Data-Oriented Authentication Based On Merkle Tree With Improved Reliability (ICWS2017-1107)
Dongyoung Koo (Hansung University, KR) Youngjoo Shin (Kwangwoon University, KR) Joobeom Yun (Sejong University, KR) Junbeom Hur (Korea University, KR)

Session 3: Service Recommendation I (06/25 Sunday, 11:20-12:20; Honolulu Suite3)
15 minutes for each paper.

A Case For Memory Frequency Sensitivity (ICWS2017-1108)
Guoliang Zhu (National University, CN) Kai Lu (National University, CN) Xiaoping Wang (National University, CN) Yiming Zhang (National University, CN) Ling Liu (Georgia Institute, US)
Towards Reliable Online Services Analyzing Mobile Sensor Big Data (ICWS2017-1109)
Xin Zhang (IBM Research, CN) Ning Duan (IBM Research, CN) Peng Gao (IBM Research, CN) Guoqiang Hu (IBM Research, CN)
Hybrid Measurement Of Air Quality As A Mobile Service: An Image Based Approach (ICWS2017-1110)
Chao Zhang (Beijing Normal University; IBM Research China, CN) Baoxian Liu (Beijing Municipal Environmental Monitoring Center, CN) Junchi Yan (IBM Research China, CN) Jinghai Yan (Beijing Municipal Environmental Monitoring Center, CN) Lingjun Li (Beijing Municipal Environmental Monitoring Center, CN) Dawei Zhang (Beijing Municipal Environmental Monitoring Center, CN) Xiaoguang Rui (IBM Research China, CN) Rongfang Bie (Beijing Normal University, CN)

Session 4: Service Applications beyond the Web II (06/25 Sunday, 13:30-14:30; Honolulu Suite3)
15 minutes for each paper.

Unlicensed Taxis Detection Service Based On Large-Scale Vehicles Mobility Data (ICWS2017-1111)
Yujie Wang (Lanzhou University, CN) Xiaoliang Fan (Lanzhou University, CN) Xiao Liu (Deakin University, AU)
Intrusion Detection With Unsupervised Heterogeneous Ensembles Using Clusterbased Normalization (ICWS2017-1112)
Scott Ruoti (Sandia National Labs, US) Scott Heidbrink (Sandia National Labs, US) Mark O'Neill (Sandia National Labs, US) Eric Gustafson (Sandia National Labs, US) Yung Choe (Sandia National Labs, US)
Spotting Fake News: A Social Argumentation Framework For Scrutinizing Alternative Facts (ICWS2017-1113)
Ricky Sethi (Fitchburg State University, US)

Session 5: Services Recommendation II (06/29 Thursday, 8:15-9:15; Iolani Suite4)
15 minutes for each paper.

Visual Configuration For Restful Mobile Web Mashups (ICWS2017-1114)
Marwa Boulakbech (LI,Universite de Tours, FR) Nizar Messai (LI,Universite de Tours, FR) Yacine Sam (LI,Universite de Tours, FR) Thomas Devogele (LI,Universite de Tours, FR)
A Keyword-Driven Data Services Composition Sequence Generation Approach On Ad-Hoc Data Query (ICWS2017-1115)
Xin Chen (Shandong University, CN) Yanbo Han (North China University, CN) Yan Wen (Shandong University, CN) Feng Zhang (Shandong University, CN) Wei Liu (Shandong University, CN)
Multi-Level Privacy-Preserving Access Control As A Service For Ambient Assisted Living (ICWS2017-1116)
Usama Salama (UNSW, AU) Lina Yao (UNSW, AU) Xianzhi Wang (UNSW, AU) Hye-young Paik (UNSW, AU) Amin

Beheshti (UNSW, AU)

Session 6: Web Service Composition I (06/29 Thursday, 9:25-10:25; Iolani Suite4)
15 minutes for each paper.

Data Flow-Oriented Multi-Path Semantic Web Service Composition Using Extended SPARQL (ICWS2017-1117)
Xi Chen (Southwest Minzu University, CN) Tao Wu (Chengdu University of Information Technology, CN) Qi Xie (Southwest Minzu University, CN) Jia He (Chengdu University of Information Technology, CN)

Service2vec: A Vector Representation For Web Services (ICWS2017-1118)
Yuqun Zhang (South University of Science and Technology of China, CN) Mengshi Zhang (The University of Texas at Austin, US) Xi Zheng (Deakin University, AU) Dewayne Perry (The University of Texas at Austin, US)

Towards Uncertain Qos-Aware Service Composition Via Multi-Objective Optimization (ICWS2017-1119)
Sen Niu (Shanghai University, CN) Guobing Zou (Shanghai University, CN) Yanglan Gan (Donghua University, CN) Yang Xiang (Shanghai University, CN) Bofeng Zhang (Shanghai University, CN)

Session 7: Service Mobility and Hyperlink (06/29 Thursday, 13:00-14:00; Iolani Suite4)
15 minutes for each paper.

Parallelized Mobility-Aware Complex Event Processing (ICWS2017-1120)
Yuhao Gong (Nanjing University of Science and Technology, CN) Hongyu Kuang (Nanjing University, CN) Xinchen Cai (Nanjing University, CN) Hao Hu (Nanjing University, CN) Wei Song (Nanjing University, CN) Jian Lü (Nanjing University, CN)

Service Hyperlink: Modeling And Reusing Partial Process Knowledge By Mining Event Dependencies Among Sensor Data Services (ICWS2017-1121)
Meiling Zhu (Tianjin University, CN) Chen Liu (Beijing Key Laboratory, CN) Jianwu Wang (University of Maryland, US) Shen Su (Beijing Key Laboratory on Integration and Analysis, CN) Yanbo Han (Beijing Key Laboratory, CN)

Pursuing Differentiated Services In A Sdn-Based Iot-Oriented Pub/Sub System (ICWS2017-1122)
Yali Wang (Peking University, CN) Yang Zhang (Peking University, CN) Junliang Chen (Peking University, CN)

Session 8: Web Service Composition II (06/29 Thursday, 14:10-15:10; Iolani Suite4)
15 minutes for each paper.

SPEC2REST: An Approach For Eliciting Web Api Resources From Existing Applications (ICWS2017-1123)
Shridhar Choudhary (Fujitsu Laboratories Ltd., JP) Kosaku Kimura (Fujitsu Laboratories Ltd., JP) Atsuji Sekiguchi (Fujitsu Laboratories Ltd., JP)

Penalty Based Mathematical Models For Web Service Composition In A Geo-Distributed Cloud Environment (ICWS2017-1124)
Bharathan Santhanam (IN) Rajendran Chandrasekharan (IN) Sundarraj RP (IN)

A Benchmark Dataset For Evaluating Process Similarity Search Methods (ICWS2017-1125)
Jiaxing Wang (Zhejiang University of Technology, CN), Bin Cao (Zhejiang University of Technology, CN), Weishi An (Zhejiang University of Technology, CN), Jing Fan (Zhejiang University of Technology, CN), Jianwei Yin (Zhejiang University, CN)

2017 IEEE 14th International Conference on Services Computing (SCC 2017)

SCC Research Track

Session 1: Business Process and Scientific Workflows (06/26 Monday, 13:00-14:00; Honolulu Suite3)

Handling Concept Drift In Predictive Process Monitoring (SCC2017-2001)
  Marco Maisenbacher (Humboldt-Universität zu Berlin, DE) Matthias Weidlich (Humboldt-Universitätzu Berlin, DE)
Columbus: Enabling Scalable Scientific Workflows For Fast Evolving Spatio-Temporal Sensor Data (SCC2017-2002)
  Johnson Charles Kachikaran Arulswamy (Colorado State University, US) Sangmi Lee Pallickara (Colorado State University, US)
Business Process Instances Discovery From Email Logs (SCC2017-2003)
  Diana Jlailaty (Paris Dauphine University, FR) Daniela Grigori (Paris Dauphine University,FR) Khalid Belhajjame (Paris Dauphine University, FR)

Session 2: Cloud Platform Services (06/26 Monday, 14:10-15:10; Honolulu Suite3)

Selecting Green Data Mining Services (SCC2017-2004)
  Zainab Al-Zanbouri (Ryerson University, CA) Chen Ding (Ryerson University, CA)
Lightweight And Adaptive Service Api Performance Monitoring In Highly Dynamic Cloud Environment (SCC2017-2005)
  Jing Min XU (Peking University; IBM Research China, CN) Ping Wang (IBM Research China, CN) Peng Fei Chen (IBM Research China, CN) Yuan Wang (Peking University, CN)
On Estimating Bids For Amazon EC2 Spot Instances Using Time Series Forecasting (SCC2017-2006)
  Mohan Baruwal Chhetri (Swinburne University of Technology, AU) Markus Lumpe (Swinburne University of Technology, AU) Quoc Bao Vo (Swinburne University of Technology, AU) Ryszard Kowalczyk (Swinburne University of Technology, AU; Systems Research Institute, PL)

Session 3: Data, Crowdsourcing, and Social Media Analytics Services (06/27 Tuesday, 8:15-9:15; Honolulu Suite3)

Relaying Message And Motivating Collaboration For Vanet Data Service (SCC2017-2007)
  Shu Yang (Beijing University of Posts and Telecommunications, CN) Jinglin Li (Beijing University of Posts and Telecommunications, CN) Zhihan Liu (Beijing University of Posts and Telecommunications, CN) Quan Yuan (Beijing University of Posts and Telecommunications, CN)
SR-LDA: Mining Effective Representations for Generating Service Ecosystem Knowledge Maps (SCC2017-2008)
  Bing Bai (Tsinghua University, CN) Yushun Fan (Tsinghua University, CN) Wei Tan (IBM Thomas J. Watson Research Center, US) Jia Zhang (Carnegie Mellon University, US)
Exploiting Time Series Analysis In Twitter To Measure A Campaign Process Performance (SCC2017-2009)
  Eleanna Kafeza (Zayed University, AE) Christos Makris (University of Patras, GR) Gerasimos Rompolas (University of Patras, GR)

Session 4: Service Selection and Recommendation I (06/27 Tuesday, 9:25-10:25; Honolulu Suite3)

Trading Web Services In A Double Auction-Based Cloud Platform: A Game Theoretic Analysis (SCC2017-2010)

Bing Shi (Wuhan University of Technology, CN) Jinwen Wang (Wuhan University of Technology, CN) Zhaowei Wang (Wuhan University of Technology, CN) Yalong Huang (Wuhan University of Technology, CN)

Integrating Tag, Topic, Co-Occurrence, And Popularity To Recommend Web APIs For Mashup Creation (SCC2017-2011)

Hongchao Li (Hunan University of Science and Technology, CN)J ianxun Liu (Hunan University of Science and Technology, CN) Buqing Cao (Hunan University of Science and Technology, CN) Mingdong Tang (Hunan University of Science and Technology, CN) Xiaoqing "Frank" Liun (University of Arkansas, US), Bing Li(Wuhan University, CN)

Exploiting Time Series A Personalized Assistant Framework For Service Recommendation (SCC2017-2012)

Pradeep Venkatesh (Queen's University, CA) Shaohua Wang (Queen's University, CA) Ying Zou (Queen's University, CA) Joanna Ng (IBM Canada Ltd, CA)

Session 5: Service Selection and Recommendation II (06/27 Tuesday, 13:00-14:00; Honolulu Suite3)

deQAM: A Dependency Based Indirect Monitoring Approach For Cloud Services (SCC2017-2013)
Heng Zhang(TU Darmstadt, DE) Ruben Trapero (TU Darmstadt, DE) Jesus Luna (TU Darmstadt, DE) Neeraj Suri (Atos Research & Innovation, ES)

Service Recommendation From The Evolution Of Composition Patterns (SCC2017-2014)
Zhenfeng Gao (Tsinghua University, CN) Yushun Fan (Tsinghua University, CN) Cheng Wu(Tsinghua University, CN) Wei Tan (IBM Thomas J. Watson Research Center, US) Jia Zhang (Carnegie Mellon University, US)

QoS And Customizable Transaction-Aware Selection For Big Data Analytics On Automatic Service Composition (SCC2017-2015)
T. H. Akila S. Siriweera (University of Aizu, JP) Incheon Paik (University of Aizu, JP) Banage T. G. S.Kumara (Sabaragamuwa University, LK)

Session 6: Learning and Mining in the Services Ecosystem (06/28 Wednesday, 8:15-9:15; Honolulu Suite3)

ParkBid: An Incentive Based Crowdsourced Bidding Service For Parking Reservation (SCC2017-2016)
Shahid Noor (UAB, US) Ragib Hasan (UAB, US) Arsh Arora (UAB, US)

An MARL-Based Distributed Learning Scheme for Capturing User Preferences in a Smart Environment (SCC2017-2017)
Junsung Lim (KAIST, KR) Heesuk Son (KAIST, KR) Daekeun Lee (KAIST, KR) Dongman Lee (KAIST, KR)

Building A Deep Learning Classifier for Enhancing A Biomedical Big Data Service (SCC2017-2018)
Junhua Ding (East Carolina University, US) Xiaojun Kang (China University of Geosciences, CN) Xin-Hua Hu (East Carolina University, US) Venkat Gudivada (East Carolina University, US)

Session 7: Foundations of Services Computing II (06/28 Wednesday, 9:25-10:25; Honolulu Suite3)

Validation Of Service Level Agreements Using Probabilistic Model Checking (SCC2017-2019)
Maria Krotsiani (University of London, UK) Christos Kloukinas (University of London, UK) George Spanoudakis (University of London, UK)

Constraint Adaptation In Web Service Composition (SCC2017-2020)
Touraj Laleh (Concordia University, CA) Joey Paquet (Concordia University, CA) Serguei Mokhov (Concordia University, CA) Yuhong Yan (Concordia University, CA)

Self-Adaptive Service Organization For Pragmatics-Aware Service Discovery (SCC2017-2021)
Dionysis Athanasopoulos (Victoria University of Wellington, NZ)

Session 8: Foundations of Services Computing II (06/28 Wednesday, 13:00-14:00; Honolulu Suite3)

Towards A Framework For Detecting Containment Violations In Service Choreography (SCC2017-2022)
Faiz UL Muram (University of Vienna, AT) Muhammad Atif Javed (University of Vienna, AT) Huy Tran (University of Vienna, AT) Uwe Zdun (University of Vienna, AT)

Availability Based Multiservice Delivery For Wireless Sensor Networks In Adversarial Environments (SCC2017-2023)
Xiaomei Zhang (Shanghai University of Engineering Science; Shanghai Jiao Tong University, CN) Chi-Hung Chi (CSIRO, AU) Chen Lyu (Shanghai University of Finance and Economics, CN) ZhijunFang (Shanghai University of Engineering Science, CN) Xiaolei Dong (East China Normal University; Shanghai Jiao Tong University, CN) Qiang Chen

(Shanghai University of Engineering Science, CN)
ATM: A Framework To Support Application State Migration In Multiple Terminals Environment
(SCC2017-2024)

    Jianrui Lin (Tianjin Key Laboratory of Cognitive Computing and Application; Tianjin University, CN) Zhiyong Feng (Tianjin Key Laboratory of Cognitive Computing and Application; Tianjin University, CN) Shizhan Chen (Tianjin Key Laboratory of Cognitive Computing and Application; Tianjin University, CN)

Session 9: SOA Applications (06/28 Wednesday, 14:10-15:10; Honolulu Suite3)

Assisting Open Education Resource Providers And Instructors To Deal With Cold Start Problem In Adaptive Micro Learning: A Service Oriented Solution (SCC2017-2025)

    Geng Sun(University of Wollongong, AU) Tingru Cui (University of Wollongong, AU) Dongming Xu (University of Queensland, AU) Huaming Chen (University of Wollongong, AU) Shiping Chen (CSIRO, AU) Jun Shen (University of Wollongong, AU)

Modeling User Preferences On Spatiotemporal Topics For Point-Of-Interest Recommendation (SCC2017-2026)

    Shuiqiao Yang (Deakin University, AU) Guangyan Huang(Deakin University, AU) Yang Xiang (Deakin University, AU) Xiangmin Zhou (RMIT University, AU) Chi-Hung Chi (CSIRO, AU)

Situated Sensor Composition For Event-Based System (SCC2017-2027)

    Junta Koyama (Kyoto University, JP) Yohei Murakami (Kyoto University, JP) Donghui Lin (Kyoto University, JP)

SCC Visionary Track

Session 1: Cloud and IoT (06/29 Thursday, 9:25-10:25; Tapa Ballroom1)

Living In The Cloud Or On The Edge: Opportunities And Challenges Of Iot Application Architecture (SCC2017-2028)

    Samir Tata (IBM, US) Rakesh Jain (IBM, US) Heiko Ludwig (IBM, US) Sandeep Gopisetty (IBM, US)

SCC Applications Track

Session 1: Services Selection and Recommendation (06/28 Wednesday, 15:20-16:20; Honolulu Suite3)

Web API Recommendation For Mashup Development Using Matrix Factorization On Integrated Content And Network-Based Service Clustering (SCC2017-2029)

    Md Mahfuzer Rahman (University of Arkansas, US) Xiaoqing "Frank" Liu (University of Arkansas, US) Buqing Cao (Hunan University of Science and Technology, US)

QoS Aware Service Clustering To Bootstrap The Web Service Selection (SCC2017-2030)

    Banage T. G. S. Kumara (Sabaragamuwa University of Sri Lanka, LK) Incheon Paik (University of Aizu, JP) T. H. A. S. Siriweera (University of Aizu, JP) Koswatte R. C. Koswatte (Sri Lanka Institute of Information Technology, LK)

Constructing The Knowledge Base For Cognitive IT Service Management (SCC2017-2031)

    Qing Wang (Florida International University, US) Wubai Zhou (Florida International University, US) Chunqiu Zeng (Florida International University, US) Tao Li (Florida International University, US) Larisa Shwartz (IBM T. J. Watson Research Center, US) Genady Ya. Grabarnik (St. John's University, US)

Session 2: Service Management and Engineering (06/29 Thursday, 8:15-9:15; Honolulu Suite3)

Conflict Management In Service-Oriented Pervasive Platforms (SCC2017-2032)
Philippe Lalanda (Grenoble Alpes University, FR) Rania Ben hadj (Orange Labs; Grenoble Alpes University, FR) Catherine Hamon (Orange Labs, FR) German Vega (Grenoble Alpes University, FR)

Design Patterns For Reliable One-Way Messaging (SCC2017-2033)
Naghmeh Ivaki (University of Coimbra, PT) Nuno Laranjeiro (University of Coimbra, PT) Filipe Araujo (University of Coimbra, PT)

A Semantic-Based Approach To Service Clustering From Service Documents (SCC2017-2034)
Bo Jiang (Zhejiang Gongshang University, CN) LingYao Ye (Zhejiang Gongshang University, CN) JiaLei Wang (Zhejiang Gongshang University, CN) Ye Wang (Zhejiang Gongshang University, CN)

Session 3: Cloud Performance (06/29 Thursday, 8:15-9:15; Iolani Suite5)

Optimizing Multi-Cloud CDN Deployment And Scheduling Strategies Using Big Data Analysis (SCC2017-2035)
Congjie Wang (Fudan University,CN) Zhihui Lu (Fudan University,CN) Ziyan Wu (Wangsu Science & Technology Co., Ltd., CN) Jie Wu (Wangsu Science & Technology Co., Ltd., CN) Shalin Huang (Wangsu Science & Technology Co., Ltd., CN)

ALPINE: A Bayesian System For Cloud Performance Diagnosis And Prediction (SCC2017-2036)
Karan Mitra (Luleå University of Technology, SE)Saguna Saguna (Luleå University of Technology, SE) Christer Åhlund (Luleå University of Technology, SE) Rajiv Ranjan (Newcastle University, UK)

Cost-Efficient Distributed MapReduce Job Scheduling Across Cloud Federation (SCC2017-2037)
Thouraya Gouasmi (University of Sfax, TN) Wajdi Louati (University of Sfax, TN) Ahmed Hadj Kacem (University of Sfax, TN)

Session 4: Cloud Optimization and Resource Allocation (06/29 Thursday, 9:25-10:25; Honolulu Suite3)

Research on QoS Optimization Method Of Cloud Service Based On Utility Game Between Users And Service Providers In The Cloud Market (SCC2017-2038)
Yan Wang (Inner Mongolia University, CN) Jiantao Zhou (Inner Mongolia University, CN) Jing Liu (Inner Mongolia University, CN) Gang Xu (Inner Mongolia University, CN) Xiaoyu Song (Portland State University, US)

Simulation Of Configurable Resource Allocation For Cloud-Based Business Processes (SCC2017-2039)
Mehdi Ahmed-Nacer (University of Sciences and Technology; Telecom SudParis, FR) Kunal Suri (Telecom SudParis; LISE, FR) Mohamed Sellami (LISITE Laboratory, FR) Walid Gaaloul (Telecom SudParis, FR)

Optimal Cost For Time-Aware Cloud Resource Allocation In Business Process (SCC2017-2040)
Rania Ben Halima (Telecom SudParis, FR; University of Sfax, TN) Slim Kallel (University of Sfax, TN) Walid Gaaloul (Telecom SudParis, FR) Mohamed Jmaiel (University of Sfax; Digital Research Center of Sfax, TN)

Session 5: Service Security and SLAs (06/29 Thursday, 9:25-10:25; Iolani Suite5)

A Framework For Ranking Cloud Security Services (SCC2017-2041)
Ahmed Taha(Technische Universität Darmstadt,Germany) Ruben Trapero(Technische Universität Darmstadt,Germany)Jesus Luna(Atos Research & Innovation, Spain)Neeraj Suri(Atos Research & Innovation, Spain)

YAFA-SOA: A GA-Based Optimizer For Optimizing Security And Cost In Service Compositions (SCC2017-2042)
Wafaa Radwan (BirZeit University, Palestine) Yousef Hassouneh (BirZeit University, Palestine) Abdel Salam Sayyad (BirZeit University, Palestine) Nariman Ammar (BirZeit University, Palestine)

Cloud SLA Modeling And Monitoring (SCC2017-2043)
Taher Labidi (National School of Electronic and Telecommunications; Sfax University, TN) Achraf Mtibaa (National School of Electronic and Telecommunications; Sfax University, TN) Walid Gaaloul (TELECOM SudParis, FR) Samir Tata (IBM Research, US) Faiez Gargouri (Higher Institute of Computer Science and Multimedia; Sfax University, TN)

Session 6: Cloud and Service Modeling (06/29 Thursday, 13:00-14:00; Honolulu Suite3)

Deep And Shallow Model For Insurance Churn Prediction Service (SCC2017-2044)
Rong Zhang (Peking University, CN) Weiping Li (Peking University, CN) Wei Tan (IBM T. J. Watson Research Center, US) Tong Mo (Peking University, CN)

An Infrastructure Modelling Tool For Cloud Provisioning (SCC2017-2045)

Julio Sandobalin (Escuela Politécnica Nacional; niversitat Politècnica de València, ES) Emilio Insfran (niversitat Politècnica de València, ES) Silvia Abrahao (niversitat Politècnica de València, ES)

Computing Quantified Opacity For SOG-Abstracted Web Services (SCC2017-2046)

Amina Bourouis (University of Tunis El Manar, TN) Nejib Ben Hadj-Alouane (University of Tunis El Manar, TN) Kais Klai (University of Paris 13, FR)

Session 7: Service Application I (06/29 Thursday, 13:00-14:00; Iolani Suite5)

Optimization Of Autonomic Manager Components In Service-Based Applications (SCC2017-2047)

Leila Hadded (TELECOM SudParis, FR; University of Tunis El Manar, TN) Faouzi Ben Charrada (University of Tunis El Manar, TN) Samir Tata (IBM Almaden, US)

An Optimization Approach For Adaptive Monitoring In Iot Environments (SCC2017-2048)

Samir Tata (IBM Research Almaden, US) Mohamed Mohamed (IBM Research Almaden, US) Aly Megahed (IBM Research Almaden, US)

Prediction-as-a-Service For Meme Popularity (SCC2017-2049)

Victor W. Chu (University of New South Wales, AU) Raymond K. Wong (University of New South Wales, AU) Fang Chen (University of New South Wales, AU) Chi-Hung Chi (University of New South Wales, AU)

Session 8: Service Application II (06/29 Thursday, 14:10-15:10; Honolulu Suite3)

A Keyword-Driven Data Service Mashup Plan Generation Approach For Ad-Hoc Data Query (SCC2017-2050)

Xin Chen (Shandong University of Science and Technology, CN) Yanbo Han (Shandong University of Science and Technology; North China University of Technology, CN) Yan Wen (Shandong University of Science and Technology, CN) Feng Zhang (Shandong University of Science and Technology, CN) Wei Liu (Shandong University of Science and Technology, CN)

Codeless Engineering Of Service Mashups - An Experience Report (SCC2017-2051)

Tobias Brueckmann (Campus Lab GmbH Essen, DE) Volker Gruhn (University of Duisburg-Essen, DE) Wilhelm Koop (University of Duisburg-Essen, DE) Julius Ollesch (University of Duisburg-Essen, DE) Lukas Pradel (University of Duisburg-Essen, DE) Florian Wessling (University of Duisburg-Essen, DE) Marian Benner Wicknerer (International University of Applied Sciences Bad Honnef – Bonn, DE)

Service Selection Based On Correlated QoS Requirements (SCC2017-2052)

Yanchun Wang (BUPT, CN) Qiang He (BUPT, CN) Dayong Ye (BUPT, CN) Yun Yang (BUPT, CN)

Session 9: Service Application - III (06/29 Thursday, 14:10-15:10; Iolani Suite5)

A Cognitive Prioritization For Reports Generated In Resource Constrained Applications (SCC2017-2053)

Shubhi Asthana (IBM Research Almaden, US) Aly Megahed (IBM Research Almaden, US) Valeria Becker (IBM Research Almaden, US) Taiga Nakamura (IBM Research Almaden, US) Kugamoorthy Gajananan (IBM Research Tokyo, JP)

Back Propagation Grouping: Load Balancing At Global Scale When Sources Are Skewed (SCC2017-2054)

Xin Zhang (Shanghai Jiao Tong University, CN) Haopeng Chen (Shanghai Jiao Tong University, CN) Fei Hu (Shanghai Jiao Tong University, CN)

IsV2C: An Integrated Road Traffic-Network-Cloud Simulator For V2C Connected Car Services (SCC2017-2055)

Heejae Kim (KIA Motors Corporation, KR) Jiyong Han (KIA Motors Corporation, KR) Seong-Hwan Kim (Korea Advanced Institute of Science and Technology, KR) Jisoo Choi (Korea Advanced Institute of Science and Technology, KR) Dongsik Yoon (Agency for Defense Development, KR) Minsu Jeon, Eunjoo Yang, Nhat Pham, Sungpil Woo, Jeongkyu Park (Korea Advanced Institute of Science and Technology, KR) Daeyoung Kim (Korea Advanced Institute of Science and Technology, KR) Chan-Hyun Youn (Korea Advanced Institute of Science and Technology, KR)

Session 10: Process Mining (06/30 Friday, 8:15-9:15; Iolani Suite5)

Unraveling Process Evolution By Handling Concept Drifts In Process Mining (SCC2017-2056)

Tianyang Li (HIT, CN) Ting He (Huaqiao University, CN) Zhongjie Wang (HIT, CN) Yufeng Zhang (University of

Birmingham, UK) Dianhui Chu (HIT (Weihai), CN)
The Mining Of Activity Dependence Relation Based On Business Process Models (SCC2017-2057)
 Guangchang Hu (BUPT, CN) Budan Wu (BUPT, CN) Junliang Chen (BUPT, CN)
Scalable Provenance Storage And Querying Using Pig Latin For Big Data Workflows (SCC2017-2058)
 Fahima Bhuyan (Wayne State University, US) Shiyong Lu (Wayne State University, US) Dong Ruan (Wayne State University, US) Jia Zhang (CMU, US)

SCC Short Paper Track

Session 1: Software Services, Automation, and QoS (06/25 Sunday, 8:45-9:45; Iolani Suite5)
15 minutes for each paper.

Identifying Characteristic Attributes For Estimating Cost Of Service In Service Oriented Architecture (SCC2017-2059)
 Amany Alnahdi (King Abdulaziz University, SA) Shih-Hsi Liu (California State University, US)
Temporal Influences-Aware Collaborative Filtering For QoS-Based Service Recommendation (SCC2017-2060)
 Jinglin Li (BUPT, CN) Jie Wang (BUPT, CN) Qibo Sun (BUPT, CN) Ao Zhou (BUPT, CN)
SynAdapt: Automated Synthesis Of Adaptive Agents (SCC2017-2061)
 Subhajit Sidhanta (University of Lisbon, PT) Supratik Mukhopadhyay (Louisiana State University, US)

Session 2: Services Applications-I (06/25 Sunday, 9:55-10:55; Iolani Suite5)
15 minutes for each paper.

GS1 Global Smart Parking System: One Architecture to Unify Them All (SCC2017-2062)
 Nhat Pham (Auto-ID Labs, KR) Muhammad Hassan (Korea Advanced Institute of Science and Technology, KR) Hoang Minh Nguyen (Auto-ID Labs, KR) Daeyoung Kim (Auto-ID Labs, KR)
GSPN-Based Reliability-Aware Performance Evaluation Of IoT Services (SCC2017-2063)
 Songyuan Li (BUPT, CN) Jiwei Huang (BUPT, CN)
Reducing The Number Of Comatose Servers: Automatic Tuning As An Opportunistic Cloud-Service (SCC2017-2064)
 Yanik Ngoko (Université de Paris 13, FR) Christophe Cérin (Université de Paris 13, FR)

Session 3: Services Applications-II (06/25 Sunday, 11:20-12:20; Iolani Suite5)
15 minutes for each paper.

Use Of Salesforce Platform For Building Real-Time Service Systems In Cloud (SCC2017-2065)
 Aneta Poniszewska-Maranda (Lodz University of Technology, PL) Radosław Matusiak (Lodz University of Technology, PL) Natalia Kryvinska (Comenius University in Bratislava, SK)
A Component-Based Highly Avalable Data Replication Strategy Exploiting Operation Types And Hybrid Communication Mechanisms (SCC2017-2066)
 Awais Usman (Carl von Ossietzky University of Oldenburg, DE) Peilin Zhang (Carl von Ossietzky University of Oldenburg, DE) Oliver Theel (Carl von Ossietzky University of Oldenburg, DE)

Session 4: Service Security (06/27 Tuesday, 9:25-10:25; Honolulu Suite1)
15 minutes for each paper.

AttackDive: Diving Deep Into The Cloud Ecosystem To Explore Attack Surfaces (SCC2017-2067)
 Nhat Pham (Auto-ID Labs, KR) Muhammad Hassan (Korea Advanced Institute of Science and Technology, KR) Hoang Minh Nguyen (Auto-ID Labs, KR) Daeyoung Kim (Auto-ID Labs, KR)
An Attack-Tolerant Framework For Web Services (SCC2017-2068)

Georges L. A. Ouffoué (Universite   Paris-Saclay, FR) Fatiha Zaïdi (Universite   Paris-Saclay, FR) Ana R. Cavalli (TELECOM SudParis, FR) and Mounir Lallali (Univ. Bretagne Occidentale, FR)

Top-k Cloud Service Plans Using Trust And QoS (SCC2017-2069)

Karim Benouaret (Universite   Claude Bernard Lyon 1, FR) Idir Benouaret, Mahmoud (Universite   de Technologie de Compie`gne, FR) Barhamgi (Universite   Claude Bernard Lyon 1, FR) Djamal Benslimane (Universite   Claude Bernard Lyon 1, FR)

2017 IEEE 10th International Conference on Cloud Computing (CLOUD 2017)

CLOUD Research Track

Session 1: Cloud Networking (06/26 Monday, 13:00-14:00; Tapa Ballroom 3)

Coflourish: An SDN-Assisted Coflow Scheduling Framework For Clouds (CLOUD2017-3001)
Chui-Hui Chiu (Louisiana State University, US) Dipak Kumar Singh (Louisiana State University, US) Qingyang Wang (Louisiana State University, US) and Seung-Jong Park (Louisiana State University, US)

Workload-Aware Revenue Maximization in SDN-Enabled Data Center (CLOUD2017-3002
Haitao Yuan (Beijing Jiaotong University, CN) Jing Bi (Beijing University of Technology, CN) Jia Zhang (Carnegie Mellon University, US) Wei Tan (IBM Thomas J. Watson Research Center, US), and Keman Huang (Massachusetts Institute of Technology, US)

Session 2: Cloud Storage (06/26 Monday, 14:10-15:10; Tapa Ballroom 3)

Emerge: Self-Emerging Data Release Using Cloud Data Storage (CLOUD2017-3003
Chao Li (University of Pittsburgh, US) Balaji Palanisamy (University of Pittsburgh, US)

Arion: A Model-Driven Middleware For Minimizing Data Loss In Stream Data Storage (CLOUD2017-3004)
Nhan Nguyen (University of Connecticut, US) Mohammad Maifi Hasan Khan (University of Connecticut, US) Yusuf Albayram (University of Connecticut, US) Kewen Wang (University of Connecticut, US) and Swapna Gokhale (University of Connecticut, US)

Taming Performance Hotspots In Cloud Storage With Dynamic Load Redistribution (CLOUD2017-3005)
Ridwan Rashid Noel (University of Texas at San Antonio, US) Palden Lama (University of Texas at San Antonio, US)

Session 3: Cloud Security and Policy (06/27 Tuesday, 8:15-9:15; Tapa Ballroom 3)

Cloud Standards In Comparison: Are New Security Frameworks Improving Cloud Security?
(CLOUD2017-3006)
Carlo Di Giulio (University of Illinois at Urbana-Champaign, US) Read Sprabery (University of Illinois at Urbana-Champaign, US) Charles Kamhoua (Air Force Research Laboratory, US) Kevin Kwiat (Air Force Research Laboratory, US) Roy H. Campbell (University of Illinois at Urbana-Champaign, US) Masooda N. Bashir (University of Illinois at Urbana-Champaign, US)

** End-To-End Policy Monitoring And Enforcement For Service-Oriented Architecture (CLOUD2017-3007)
To be presented in Cross Topic Session 5, on 06/29, 14:10-15:10; Iolani Suite3
Mehdi Azarmi (Purdue University, US) Bharat Bhargava (Purdue University, US)

Privacy-Preserving Data Deduplication on Trusted Processors (CLOUD2017-3008)
Hung Dang (NUS, SG) Ee-Chien Chang (NUS, SG)

Session 4: Cloud Data Analytics (06/27 Tuesday, 9:25-10:25; Tapa Ballroom 3)

Cost-Effective Big Data Mining In The Cloud: A Case Study With K-Means (CLOUD2017-3009)
Qiang He (Swinburne University of Technology, AU, Xiaodong Zhu (University of Shanghai for Science and Technology, CN) Dongwei Li (Beijing Institute of Technology, CN) Shuliang Wang (Beijing Institute of Technology, CN)

Jun Shen (University of Wollongong, AU) Yun Yang (Swinburne University of Technology, AU)
Benchmarking Harp-DAAL: High Performance Hadoop On KNL Clusters (CLOUD2017-3010)
Langshi Chen (Indiana University, US) Bo Peng (Indiana University, US) Bingjing Zhang (Indiana University, US) Tony Liu (Indiana University, US) Yiming Zou (Indiana University, US) Lei Jiang (Indiana University, US) Judy Qiu (Indiana University, US) Zhang Zhang (Intel Corporation, US)
Hierarchical Spark: A Multi-Cluster Big Data Computing Framework (CLOUD2017-3011)
Zixia Liu (University of Central Florida, US) Hong Zhang (University of Central Florida, US) Liqiang Wang (University of Central Florida, US)

Session 5: Cloud Applications **(06/27 Tuesday, 13:00-14:00; Tapa Ballroom 3)**

DeepSpotCloud: Leveraging Cross-Region GPU Spot Instances For Deep Learning (CLOUD2017-3012)
Kyungyong Lee (Kookmin University, KR) Myungjun Son (Kookmin University, KR)
Leveraging Column Family To Improve Multidimensional Query Performance In Hbase (CLOUD2017-3013)
Chun Cao (Nanjing University, CN) Weiyi Wang (Nanjing University, CN) Ying Zhang (Nanjing University, CN) and Xiaoxing Ma (Nanjing University, CN)
Cloudroid: A Cloud Framework For Transparent And QoS-Aware Robotic Computation Outsourcing (CLOUD2017-3014)
Ben Hu (National University of Defense Technology, CN) Huaimin Wang (National University of Defense Technology, CN) Pengfei Zhang (National University of Defense Technology, CN) Bo Ding (National University of Defense Technology, CN) and Huimin Che (National University of Defense Technology, CN)

Session 6: Cloud Applications and Workflow **(06/28 Wednesday, 8:15-9:15; Tapa Ballroom 3)**

Cloud-Based Positioning Method With Visualized Signal Images (CLOUD2017-3015)
Chungheon Yi (Inha University, KR) Wonik Choi (Inha University, KR) Ling Liu (Georgia Institute of Technology , US) and Youngjun Jeon(Dawul Geoinfo Co., KR)
Enabling Software Defined Networking with QoS Guarantee For Cloud Applications (CLOUD2017-3016)
Fuliang Li (Northeastern University, US) Jiannong Cao (Hong Kong Polytechnic University, HK) Xingwei Wang (Hong Kong Polytechnic University, HK) Yinchu Sun (Northeastern University, US) and Yuvraj Sahni (Northeastern University, US)

Session 7: Cloud Performance I **(06/28 Wednesday, 9:25-10:25; Tapa Ballroom 3)**

Augmenting Amdahl's Second Law: A Theoretical Model To Build Cost-Effective Balanced HPC Infrastructure For Data-Driven Science (CLOUD2017-3017)
Arghya Kusum Das (Louisiana State University, US), Jaeki Hong (Samsung Electronics Co. Ltd., KR) Sayan Goswami (Louisiana State University, US) Richard Platania (Louisiana State University, US) Kisung Lee (Louisiana State University, US) Wooseok Chang (Samsung Electronics Co. Ltd., KR) Seung-Jong Park (Louisiana State University, US) and Ling Liu (Samsung Electronics Co. Ltd., KR)
Exploiting Synchrony In Replicated State Machines (CLOUD2017-3018)
Zhou Fang (UCSD, US) Mulong Luo (UCSD, US) Mani B. Srivastava (UCLA, US) and Rajesh K.Gupta (UCSD, US)

Session 8: Cloud Performance II **(06/28 Wednesday, 13:00-14:00; Tapa Ballroom 3)**

WASP: Workload Adaptive Energy-Latency Optimization In Server Farms Using Server Low-Power States (CLOUD2017-3019)
Fan Yao (The George Washington University, US) Jingxin Wu (The George Washington University, US) Suresh Subramaniam (The George Washington University, US) and Guru Venkataramani (The George Washington University, US)
QPRED: Using Quantile Predictions To Improve Power Usage For Private Clouds (CLOUD2017-3020)
Rich Wolski (UCSB Computer Science, US) and John Brevik (CSULB Department of Mathematics, US)

Monitoring Performance In Large Scale Computing Clouds With Passive Benchmarking (CLOUD2017-3021)

   Christian Nieke (CERN IT / TU Braunschweig, DE) and Wolf-Tilo Balke (TU Braunschweig, DE)

Session 9: Cloud Performance III (06/28 Wednesday, 14:10-15:10; Tapa Ballroom 3)

Taming Performance Degradation Of Containers In The Case Of Extreme Memory Overcommitment (CLOUD2017-3022)

   Rina Nakazawa (IBM Research Tokyo, JP) Kazunori Ogata (IBM Research Tokyo, JP) Seetharami Seelam (IBM Research Tokyo, JP) and Tamiya Onodera (IBM Research Tokyo, JP)

Online Learning-Assisted VNF Service Chain Scaling With Network Uncertainties (CLOUD2017-3023)

   Xiaoke Wang (The University of Hong Kong, HK) Chuan Wu (The University of Hong Kong, HK) Franck Le (IBM T. J. Watson Research Center, US) and Francis C.M. Lau (The University of Hong Kong, HK)

Coalescing HDFS Blocks to Avoid Recurring YARN Container Overhead (CLOUD2017-3024)

   Wonbae Kim (UNIST, KR) Young-Ri Choi (UNIST, KR) and Beomseok Nam (UNIST, KR)

Session 10: Cloud Systems Tools (06/28 Wednesday, 15:20-16:20; Tapa Ballroom 3)

Minimal Coflow Routing And Scheduling In Openflow-Based Cloud Storage Area Networks (CLOUD2017-3025)

   Chui-Hui Chiu (Louisiana State University, US) Dipak Kumar Singh (Louisiana State University, US) Qingyang Wang (Louisiana State University, US) Kisung Lee (Louisiana State University, US) and Seung-Jong Park (Louisiana State University, US)

DriftInsight: Detecting Anomalous Behaviors In Large-Scale Cloud Platform (CLOUD2017-3026)

   Fan Jing Meng (IBM, US) Xiao Zhang (IBM, US) Pengfei Chen (IBM, US) and Jing Min Xu (IBM, US)

Session 11 Cloud Work Flow (06/29 Thursday, 14:10-15:10; Iolani Suite6)

Using Integer Programming for Workflow Scheduling in the Cloud (CLOUD2017-3027)

   Yi Wang (LinkedIn, US) Ye Xia (University of Florida, US) and Shigang Chen (University of Florida, US)

Efficient Hierarchical Traffic Measurement In Software-Defined Datacenter Networks (CLOUD2017-3028)

   Shiping Chen (University of Shanghai for Science and Technology, CN) You Zhou (University of Florida, US) and Shigang Chen (University of Florida, US)

PARES: Packet Rewriting On SDN-Enabled Edge Switches For Network Virtualization In Multi-Tenant Cloud Data Centers (CLOUD2017-3029)

   Kyuho Jeong (University of Florida, US) Renato Figueiredo (University of Florida, US) Kohei Ichikawa (Nara Institute of Science and Technology, US)

CLOUD Applications Track

Session 1: Cloud Resource Management I (06/26 Monday, 13:00-14:00; Tapa Ballroom 1)

SFC Provisioning Over NFV Enabled Clouds (CLOUD2017-3030)

   Chaima Ghribi (Télécom SudParis, FR) Marouen Mechtri (Télécom SudParis, FR) Oussama Soualah (Télécom SudParis, FR) and Djamal Zeghlache (Télécom SudParis, FR)

Joint Computation Partitioning And Resource Allocation For Latency Sensitive Applications In Mobile Edge Clouds (CLOUD2017-3031)

Lei Yang (South China University of Technology, CN) Bo Liu (The Hong Kong Polytechnic University, HK) Jiannong Cao (South China University of Technology, CN) and Zhenyu Wang (South China University of Technology, CN)

A Formal Framework Of Resource Management For Vnfaas In Cloud (CLOUD2017-3032)

A.H.M. Jakaria (Tennessee Tech University, US) and Mohammad Ashiqur Rahman (Tennessee Tech University, US)

Session 2: Cloud Resource Management II (06/26 Monday, 14:10-15:10; Tapa Ballroom 1)

Electron: Towards Efficient Resource Management On Heterogeneous Clusters With Apache Mesos (CLOUD2017-3032)

Renan DelValle (State University of New York (SUNY) at Binghamton, US) Pradyumna Kaushik (State University of New York (SUNY) at Binghamton, US) Abhishek Jain (State University of New York (SUNY) at Binghamton, US) Jessica Hartog (State University of New York (SUNY) at Binghamton, US) and Madhusudhan Govindaraju (State University of New York (SUNY) at Binghamton, US)

Multi-Objective Virtual Machine Consolidation (CLOUD2017-3033)

Weimin Qiu (Nanjing University, CN) Zhuzhong Qian (Nanjing University, CN) and Sanglu Lu (Nanjing University, CN)

How To Supercharge The Amazon T2: Observations And Suggestions (CLOUD2017-3034)

Feng Yan (University of Nevada, US) Lihua Ren (College of William and Mary, US) Daniel J. Dubois (Imperial College London, UK) Giuliano Casale (Imperial College London, UK) Jiawei Wen (College of William and Mary, US) and Evgenia Smirni (College of William and Mary, US)

Session 3: Cloud Security I (06/27 Tuesday, 8:15-9:15; Tapa Ballroom 1)

Cloud Security via Virtualized Out-of-Band Execution And Obfuscation (CLOUD2017-3035)

Dean C. Mumme (RAM Laboratories, Inc., US) Brooke Wallace (RAM Laboratories, Inc., US) and Robert McGraw (RAM Laboratories, Inc., US)

A Security Benchmark For OpenStack (CLOUD2017-3036)

Marco Anisetti Univeristà Degli Studi di Milano, IT) Claudio A. Ardagna Univeristà Degli Studi di Milano, IT) Ernesto Damiani (Khalifa University of Science, AE) Filippo Gaudenzi Univeristà Degli Studi di Milano, IT) Patrizio Tufarolo Univeristà Degli Studi di Milano, IT)

Man in the Cloud (MITC) Defender: SGX-Based User Credential Protection For Synchronization Applications In Cloud Computing Platform (CLOUD2017-3037)

Xueping Liang (Chinese Academy of Sciences, CN) Sachin Shetty (Old Dominion University, US) Lingchen Zhang (Chinese Academy of Sciences, US) Charles Kamhoua (Air Force Research Laboratory, US) and Kevin Kwiat (Air Force Research Laboratory, US)

Session 4: Cloud Security II (06/27 Tuesday, 9:25-10:25; Tapa Ballroom 1)

A Comparison Of System Performance On A Private Openstack Cloud And Amazon EC2 (CLOUD2017-3038)

Mikyung Kang (USC/ISI, US) Dong-In Kang (USC/ISI, US) John Paul Walters (USC/ISI, US) and Stephen P. Crago (USC/ISI, US)

Intra-Cloud and Inter-Cloud Authentication (CLOUD2017-3039)

Kevin Walsh (College of the Holy Cross, US) and John Manferdelli (Google, Inc., US)

Session 5: Cloud Security III (06/27 Tuesday, 13:00-14:00; Tapa Ballroom 1)

Privacy-Preserving Multi-Party Clustering: An Empirical Study (CLOUD2017-3040)

Arlei Silva (UC, Santa Barbara, US) and Gowtham Bellala (C3 IoT, US)

P-McDb: Privacy-Preserving Search Using Multi-Cloud Encrypted Databases (CLOUD2017-3041)

Shujie Cui (The University of Auckland, NZ) Muhammad Rizwan Asghar (The University of Auckland, NZ) Steven D. Galbraith (The University of Auckland, NZ) and Giovanni Russello (The University of Auckland, NZ)

A Minimum-Cost Flow Model For Workload Optimization On Cloud Infrastructure (CLOUD2017-3042)

Frederick Nwanganga (University of Notre Dame, US) Mandana Saebi (University of Notre Dame, US) Gregory

Madey (University of Notre Dame, US) and Nitesh Chawla (University of Notre Dame, US)

Session 6: Cloud Performance I (06/28 Wednesday, 8:15-9:15; Tapa Ballroom 1)

Data Governance And Semantic Recommendation Algorithms For Cloud Platform Selection (CLOUD2017-3043)
Stefan Kolb (University of Bamberg, DE) and Guido Wirtz (University of Bamberg, DE)
Single-View Performance Monitoring Of On-Line Applications Running On A Cloud (CLOUD2017-3044)
Yasuhiko Kanemasa (Fujitsu Laboratories Ltd. JP) Shuji Suzuki (Fujitsu Laboratories Ltd. JP) Atsushi Kubota (Fujitsu Laboratories Ltd. JP) and Junichi Higuchi (Fujitsu Laboratories Ltd. JP)
FIM: Performance Prediction For Parallel Computation In Iterative Data Processing Applications (CLOUD2017-3045)
Janki Bhimani (Northeastern University, US) Ningfang Mi (Northeastern University, US) Miriam Leeser (Northeastern University, US) and Zhengyu Yang (Northeastern University, US)
An Experimental Study Of The Impact Of vCPU Provisioning On The Performance Of A 2-Tier Application Running In Cloud (CLOUD2017-3046)
Li Pan (Shandong University, CN) Qingyang Wang (Shandong University, CN) Liang Li (Shandong University, CN) Shijun Liu (Shandong University, CN) and Dahui Chen (Shandong University, CN)

Session 7: Cloud Performance II (06/28 Wednesday, 9:25-10:25; Tapa Ballroom 1)

Scalable Performance Tuning Of Hadoop Mapreduce: A Noisy Gradient Approach (CLOUD2017-3047)
Sandeep Kumar (Indian Institute of Science, IN) Sindhu Padakandla (Indian Institute of Science, IN) Chandrashekar L (University of Alberta, CA) Priyank Parihar (University of Alberta, CA) Gopinath K (Indian Institute of Science, IN) and Shalabh Bhatnagar (Indian Institute of Science, IN)
Generating Test Sequences To Assess The Performance Of Elastic Cloud-Based Systems (CLOUD2017-3048)
Michel Albonico (Federal University of Technology - Paraná, Brazil (UTFPR), BR) Stefano Di Alesi (Simula Research Laboratory, NO) Jean-Marie Mottu (University of Nantes, FR) Sagar Sen (University of Nantes, FR) and Gerson Sunyé (Simula Research Laboratory, NO)

Session 8: Cloud Storage (06/28 Wednesday, 13:00-14:00; Tapa Ballroom 1)

Scalable And Reliable Key Management For Secure Deduplication In Cloud Storage (CLOUD2017-3049)
Hyunsoo Kwon (Korea University, KR) Changhee Hahn (Korea University, KR) Dongyoung Koo (Korea University, KR) and Junbeom Hur (Korea University, KR)
Context-Aware Data Loss Prevention For Cloud Storage Services (CLOUD2017-3050)
Yuya Jeremy Ong (Penn State University, US) Mu Qiao (BM Almaden Research Center, US) Ramani Routray (BM Almaden Research Center, US) and Roger Raphael(IBM Analytics Group, US)

Session 9: Software-Defined Systems (06/28 Wednesday, 14:10-15:10; Tapa Ballroom 1)

Efficient Software Defined Systems Using Common Core Components (CLOUD2017-3051)
Hyungro Lee (Indiana University, US) and Geoffrey C. Fox (Indiana University, US)
A Self-Learning Scheduling in Cloud Software Defined Block Storage (CLOUD2017-3052)
Babak Ravandi (Purdue University, US) and Ioannis Papapanagiotou (Netflix Inc., US)
Cost-Aware Resource Management For Federated Clouds Using Resource Sharing Contracts (CLOUD2017-3053)
Jinlai Xu (University of Pittsburgh, US) and Balaji Palanisamy (University of Pittsburgh, US)

Session 10: Graph Processing in the Cloud (06/28 Wednesday, 15:20-16:20; Tapa Ballroom 1)

A Transactional Model For Parallel Programming Of Graph Applications On Computing Clusters (CLOUD2017-3054)

    Anand Tripathi (University of Minnesota, US) Vinit Padhye (University of Minnesota, US) Tara Sasank Sunkara (University of Minnesota, US) Jeremy Tucker (University of Minnesota, US) BhagavathiDhass Thirunavukarasu (University of Minnesota, US) Varun Pandey (University of Minnesota, US) and Rahul R. Sharma (University of Minnesota, US)

GraphSteal: Dynamic Re-Partitioning For Efficient Graph Processing In Heterogeneous Clusters (CLOUD2017-3055)

    Dinesh Kumar (IIT Madras Chennai, IN) Arun Raj (IIT Madras Chennai, IN) and Janakiram Dharanipragada (IIT Madras Chennai, IN)

LogSed: Anomaly Diagnosis Through Mining Time-Weighted Control Flow Graph In Logs (CLOUD2017-3056)

    Tong Jia (Peking University, CN) Lin Yang (IBM Research China, CN) Pengfei Chen (IBM Research China, CN) Ying Li (Peking University, CN) Fanjing Meng ((IBM Research China, CN) and Jingmin Xu (IBM Research China, CN)

Session 11: Elastic Clouds (06/29 Thursday, 8:15-9:15; Tapa Ballroom 3)

A Stochastic Optimization Approach For Cloud Elasticity (CLOUD2017-3057)

    Aly Megahed (IBM Research Almaden, US) Mohamed Mohamed (IBM Research Almaden, US) and Samir Tata (IBM Research Almaden, US)

Data-Aware Modeling Of Elastic Processes For Elasticity Strategies Evaluation (CLOUD2017-3058)

    Aicha Ben Jrada (OASIS, National Engineering School of Tunis, TN) Sami Bhiria (OASIS, National Engineering School of Tunis, TN) and Samir Tata (IBM Almaden Research Center, US)

Autonomic Vertical Elasticity Of Docker Containers With Elasticdocker (CLOUD2017-3059)

    Yahya Al-Dhuraibi (Lille 1 University/ Inria / Scalair, FR) Fawaz Paraiso (Lille 1 University/ Inria / Scalair, FR) Nabil Djarallah (Lille 1 University/ Inria / Scalair, FR) and Philippe Merle (Lille 1 University/ Inria / Scalair, FR)

Session 12: Cloud Workload Optimization (06/29 Thursday, 8:15-9:15; Tapa Ballroom 1)

Privacy-Preserving Multi-Party Analytics Over Arbitrarily Partitioned Data (CLOUD2017-3060)

    Shagufta Mehnaz (Purdue University, US) and Elisa Bertino (Purdue University, US)

PYTHIA: Admission Control For Multi-Framework, Deadline- Driven, Big Data Workloads (CLOUD2017-3061)

    Stratos Dimopoulos (UCSB, US) Chandra Krintz (UCSB, US) and Rich Wolski (UCSB, US)

CloudMix: Generating Diverse And Reducible Workloads For Cloud Systems (CLOUD2017-3062)

    Rui Han (Chinese Academy of Sciences, CN) Zan Zong (Chinese Academy of Sciences, CN) Fan Zhang (Chinese Academy of Sciences, CN) Jose Luis Vazquez-Poletti (Chinese Academy of Sciences, CN) Zhen Jia (Chinese Academy of Sciences, CN) and Lei Wang (Chinese Academy of Sciences, CN)

Session 13: Cloud Workload Optimization (06/29 Thursday, 09:25-10:25; Tapa Ballroom 3)

A Robust Scheduler For Workflow Ensembles Under Uncertainties Of Available Bandwidth (CLOUD2017-3063)

    Thiago Augusto Lopes Genez (University of Campinas, BR) Luiz Fernando Bittencourt (University of Campinas, BR) Rizos Sakellariou (University of Manchester, UK) and Edmundo Roberto Mauro Madeira (University of Campinas, BR)

EAERS: An Enhanced Version Of Autonomic And Elastic Resource Scheduling Framework For Cloud Applications (CLOUD2017-3064)

    Zhida Yin (Shanghai Jiao Tong University, CN) Haopeng Chen (Shanghai Jiao Tong University, CN) Jianyu Sun (Shanghai Jiao Tong University, CN) and Fei Hu (Shanghai Jiao Tong University, CN)

Truthful Mechanism For Crowdsourcing Task Assignment (CLOUD2017-3065)

    Haiyan Qin (Yangzhou University, CN) Yonglong Zhang (Yangzhou University, CN) and Bin Li (Yangzhou University, CN)

Session 14: Cloud Reliability (06/29 Thursday, 13:00-14:00; Tapa Ballroom 3)

On the Relatively Small Impact Of Deep Dependencies On Cloud Application Reliability (CLOUD2017-3066)

 Xiaowei Wang (University of Goettingen, DE) Fabian Glaser (University of Goettingen, DE) Steffen Herbold (University of Goettingen, DE) and Jens Grabowski (University of Goettingen, DE)

Harvesting Underutilized Resources To Improve Responsiveness And Tolerance To Crash And Silent Faults For Data-Intensive Applications (CLOUD2017-3067)

 Debashis Ganguly (University of Pittsburgh, US) Mohammad H. Mofrad (University of Pittsburgh, US) Taieb Znati (University of Pittsburgh, US) Rami Melhem (University of Pittsburgh, US) and John R. Lange (University of Pittsburgh, US)

FailureSim: A System For Predicting Hardware Failures In Cloud Data Centers Using Neural Networks (CLOUD2017-3068)

 Nickolas Allen Davis (New Mexico Tech, US) Abdelmounaam Rezgui (New Mexico Tech, US) Hamdy Soliman (New Mexico Tech, US) Skyler Manzanares (New Mexico Tech, US) and Milagre Coates (New Mexico Tech, US)

Session 15: Cloud Protection ((06/29 Thursday, 13:00-14:00; Tapa Ballroom 1)

Protection By Detection: A Signaling Game Approach To Mitigate Co-Resident Attacks In Cloud (CLOUD2017-3069)

 MGM Mehedi Hasan (Tennessee Tech University, US) Mohammad Ashiqur Rahman (Tennessee Tech University, US)

Data Protection In Openstack (CLOUD2017-3070)

 Bruce Benjamin (Johns Hopkins University Applied Physics Laboratory, US) Joel Coffman (Johns Hopkins University Applied Physics Laboratory, US) Hadi Esiely-Barrera (Johns Hopkins University Applied Physics Laboratory, US) Kaitlin Farr (Johns Hopkins University Applied Physics Laboratory, US) Dane Fichter (Johns Hopkins University Applied Physics Laboratory, US) Daniel Genin (Johns Hopkins University Applied Physics Laboratory, US) Laura Glendenning (Johns Hopkins University Applied Physics Laboratory, US) Peter Hamilton (Johns Hopkins University Applied Physics Laboratory, US) Shaku Harshavardhana (Johns Hopkins University Applied Physics Laboratory, US) Rosalind Hom (Johns Hopkins University Applied Physics Laboratory, US) Brianna Poulos, and Nathan Reller (Johns Hopkins University Applied Physics Laboratory, US)

An End-To-End Dynamic Trust Framework For Service-Oriented Architecture (CLOUD2017-3071)

 Mehdi Azarmi (Purdue University, US) and Bharat Bhargava (Purdue University, US)

Session 16: Cloud Markets (06/29 Thursday, 14:10-15:10; Tapa Ballroom 3)

Service Selection In A Cloud Marketplace: A Multi-Perspective Solution (CLOUD2017-3072)

 Dipak Pudasaini (Ryerson University, CA) and Chen Ding (Ryerson University, CA)

Using Financial Options For Pricing of IaaS Cloud Resources (CLOUD2017-3073)

 Abdelkarim Erradi (Qatar University, QA) Bhanu Sharma (Qatar University, QA) and Athman Bouguettaya (University of Sydney, AU)

Session 17: Cloud Service Management (06/29 Thursday, 14:10-15:10; Tapa Ballroom 1)

Smart Contract Negotiation In Cloud Computing (CLOUD2017-3074)

 Vincenzo Scoca (IMT, US) Rafael Brundo Uriarte (IMT, US) and Rocco De Nicola (IMT, US)

A Monitoring Approach For Policy Enforcement In Cloud Services (CLOUD2017-3075)

 Ruchith Fernando (Amazon Web Services, US) Rohit Ranchal (IBM Watson Health Cloud, US) Bharat Bhargava (Purdue University, US) and Pelin Angin (Purdue University, US)

Session 18: Cloud Applications I (06/30 Friday, 8:15-9:15; Tapa Ballroom 3)

Efficient Distributed Smith-Waterman Algorithm Based On Apache Spark (CLOUD2017-3076)

 Bo Xu (University of Science and Technology of China, CN) Changlong Li (University of Science and Technology of China, CN) Hang Zhuang (University of Science and Technology of China, CN) Jiali Wang (University of Science and Technology of China, CN) Qingfeng Wang (University of Science and Technology of China, CN) and Xuehai Zhou (University of Science and Technology of China, CN)

Two-Stage Data Distribution For Distributed Surveillance Video Processing With Hybrid Storage

Architecture (CLOUD2017-3077)

    Yangyang Gao (Beijing University of Posts and Telecommunications, CN) Haitao Zhang (Beijing University of Posts and Telecommunications, CN) Bingchang Tang (Beijing University of Posts and Telecommunications, CN) Yanpei Zhu, and Huadong Ma (Beijing University of Posts and Telecommunications, CN)

Platform Support For Mobile Edge Computing (CLOUD2017-3078)

    Jaehun Lee (Hanyang University, KR) Hochul Lee (Hanyang University, KR) Young Choon Lee (Macquarie University, AU) Hyuck Han (Dongduk Women's University, KR) and Sooyong Kang (Hanyang University, KR)

Session 19: Cloud Applications II (06/30 Friday, 8:15-9:15; Tapa Ballroom 1)

Evaluating Adaptation Methods For Cloud Applications: An Empirical Study (CLOUD2017-3079)

    Marios Fokaefs (York University, CA) Yar Rouf (York University, CA) Cornel Barna (York University, CA) and Marin Litoiu (York University, CA)

Oneservice - Generic Cache Aggregator Framework For Service Dependent Cloud Applications (CLOUD2017-3080)

    Orhun Alp Oral (Microsoft, US) and Bedir Tekinerdogan (Wageningen University, NL)

Typhon: Consistency Semantics For Multi-Representation Data Processing (CLOUD2017-3081)

    Vaibhav Arora (University of California, US) Faisal Nawab (University of California, US) Divyakant Agrawal (University of California, US) and Amr El Abbadi (University of California, US)

Session 20: Cloud Applications III (06/30 Friday, 9:25-10:25; Tapa Ballroom 1)

Mantus: Putting Aspects To Work For Flexible Multi-Cloud Deployment (CLOUD2017-3082)

    Alex Palesandro (Orange Labs, Université Lyon 3, FR) Marc Lacoste (Orange Labs, FR) Nadia Bennani (Université de Lyon, FR) Chirine Ghedira-Guegan (Université de Lyon, FR) and Denis Bourge (Orange Labs, FR)

Single-View Performance Monitoring of On-Line Applications Running On A Cloud (CLOUD2017-3083)

    Yasuhiko Kanemasa (Fujitsu Laboratories Ltd., JP) Shuji Suzuki (Fujitsu Laboratories Ltd., JP) Atsushi Kubota (Fujitsu Laboratories Ltd., JP) and Junichi Higuchi (Fujitsu Laboratories Ltd., JP)

Clustering-Based IaaS Cloud Monitoring (CLOUD2017-3084)

    Mahmoud Abdelsalam (University of Texas at San Antonio, US) Ram Krishnan (University of Texas at San Antonio, US) and Ravi Sandhu (University of Texas at San Antonio, US)

CLOUD Short Paper Track

Session 1: Cloud as a Service (06/25 Sunday, 8:45-9:45; Honolulu Suite 2)

15 minutes for each paper.

Provenance In Context Of Hadoop As A Service (HaaS) - State Of The Art And Research Directions (CLOUD2017-3085)

    Himanshu Gupta (IBM Research India, IN) Sameep Mehta (IBM Research India, IN) Sandeep Hans (IBM Research India, IN) Bapi Chatterjee (IBM Research India, IN) Pranay Lohia (IBM Research India, IN) and Rajmohan C (IBM Research India, IN)

A Question And Answering System For Management Of Cloud Service Level Agreements (CLOUD2017-3086)

    Sudip Mittal (University of Maryland Baltimore County, US) Aditi Gupta (University of Maryland Baltimore County, US) Karuna P. Joshi (University of Maryland Baltimore County, US) Claudia Pearce (University of Maryland Baltimore County, US) and Anupam Joshi (University of Maryland Baltimore County, US)

A Distributed Infrastructure For Democratic Cloud Federations (CLOUD2017-3087)

    Andrea Margheri (University of Southampton, UK) Md Sadek Ferdous (University of Southampton, UK) Mu Yang (University of Southampton, UK) and Vladimiro Sassone (University of Southampton, UK)

COMS: Customer Oriented Migration Service (CLOUD2017-3088)

Kai Huang (Boise State University, US) Xing Gao (College of William and Mary, US) Fengwei Zhang (Wayne State University, US) and Jidong Xiao (Boise State University, US)

Session 2: Cloud Infrastructure (06/25 Sunday, 9:55-10:55; Honolulu Suite 2)
15 minutes for each paper.

Compliance-Aware Provisioning Of Containers On Cloud (CLOUD2017-3089)
Mehdi Bahrami (Fujitsu Laboratories of America, US) Abhishek Malvankar (IBM Watson Health, US) Karan K. Budhraja (University of Maryland, US) Chinmay Kundu (Researcher, IN) Mukesh Singhal (IBM Thomas J. Watson Research Center, US) and Ashish Kundu (University of California, US)

Resource Allocation In The Cloud: From Simulation To Experimental Validation (CLOUD2017-3090)
Pieter-Jan Maenhaut (Universiteit Gent – imec, BE) Hendrik Moens (Universiteit Gent – imec, BE) Bruno Volckaer (Universiteit Gent – imec, BE) Veerle Ongenae (Universiteit Gent – imec, BE) and Filip De Turck (Universiteit Gent – imec, BE)

Does CloudSim Accurately Model Micro Datacenters? (CLOUD2017-3091)
Dhahi Alshammari, Jeremy Singer, and Timothy Storer (University of Glasgow; University of Glasgow; University of Glasgow)

Towards Formal-Based Semantic Interoperability In Multi-Clouds: The FCLOUDS Framework (CLOUD2017-3092)
Stéphanie Challita, Fawaz Paraiso, and Philippe Merle(Inria Lille - Nord Europe;Inria Lille - Nord Europe;Inria Lille - Nord Europe) (Re-check paper name)

A "No Data Center" Solution To Cloud Computing (CLOUD2017-3093)
Tessema Mengistu (Southern Illinois University at Carbondale, US) Abdulrahman Alahmadi (Southern Illinois University at Carbondale, US) Abdullah Albuali (Southern Illinois University at Carbondale, US) Yousef Alsenani (Southern Illinois University at Carbondale, US) and Dunren Che (Southern Illinois University at Carbondale, US)

Transparent Clouds: An Enhancement To Abstraction (CLOUD2017-3094)
Reza Farrahi Moghaddam (ETS, US) Yves Lemieux (Ericsson, SE) and Mohamed Cheriet (ETS, US)

Session 3: Cloud Management and Operations (06/25 Sunday, 11:20-12:20; Honolulu Suite 2)
15 minutes for each paper.

An MTD-Based Self-Adaptive Resilience Approach For Cloud Systems (CLOUD2017-3095)
Miguel Villarreal-Vasquez (Purdue University, US) Bharat Bhargava (Purdue University, US) Pelin Angin (Purdue University, US) Noor Ahmed (AFRL, US) Daniel Goodwin (NGC, US) Kory Brin (NGC, US) and Jason Kobes (NGC, US)

Reinsurance-Emulated Collaboration Mechanism In Cloud Federation (CLOUD2017-3096)
Shujin Ye (Hong Kong Baptist University, HK) Hai Liu (Hang Seng Management College, HK) Yiu-Wing Leung (Hong Kong Baptist University, HK) and Xiaowen Chu (Hong Kong Baptist University, HK)

High Efficiency Cloud Data Center Management System Using Live Migration (CLOUD2017-3097)
Hiroyoshi Kodama (Fujitsu Laboratories Ltd., JP) Hiroshi Endo (Fujitsu Laboratories Ltd., JP) Shigeto Suzuki (Fujitsu Laboratories Ltd., JP) Hiroyuki (Fujitsu Laboratories Ltd., JP) and Fukuda (Fujitsu Laboratories Ltd., JP)

Optimal Rule Mining For Dynamic Authorization Management In Collaborating Clouds Using Attribute-Based Access Control (CLOUD2017-3098)
John C. John (Indian Institute of Technology, IN) Shamik Sural (Indian Institute of Technology, IN) and Arobinda Gupta (Indian Institute of Technology, IN)

Session 4: Cloud Security I (06/25 Sunday, 13:30-14:30; Honolulu Suite 2)
15 minutes for each paper.

Detecting Virtualization Specific Vulnerabilities In Cloud Computing Environment (CLOUD2017-3099)
Guodong Zhu (University of Georgia, US) Yue Yin (University of Georgia, US) Ruoyan Cai (University of Georgia, US) and Kang Li (University of Georgia, US)

An SDN Based Framework For Guaranteeing Security And Performance In Information-Centric Cloud Networks (CLOUD2017-3100)
Uttam Ghosh (Tennessee State University, US) Pushpita Chatterjee (SRM Research Institute, IN) Deepak Tosh (Norfolk State University, US) Sachin Shetty (Old Dominion University, US) Kaiqi Xiong (University of South Florida, US) and Charles Kamhoua (AFRL, US)

Malware Secrets: De-Obfuscating In The Cloud (CLOUD2017-3101)

Arsh Arora (University of Alabama at Birmingham, US) Thomas Stallings (University of Alabama at Birmingham, US) Ragib Hasan (University of Alabama at Birmingham, US) and Gary Warner (University of Alabama at Birmingham, US)

Session 5: Cloud Security II (06/25 Sunday, 14:40-15:40; Honolulu Suite 2)
15 minutes for each paper.

Privacy-Preserving Access Control In Cloud Federations (CLOUD2017-3102)

Shorouq Alansari (University of Southampton, UK) Federica Paci (University of Southampton, UK) Andrea Margheri (University of Southampton, UK) and Vladimiro Sassone (University of Southampton, UK)

Risk-Based Packet Routing For Privacy And Compliance-Preserving SDN (CLOUD2017-3103)

Karan K. Budhraja (University of Maryland, US) Abhishek Malvankar (IBM Watson Health, US) Mehdi Bahrami (University of California Merced, US) Chinmay Kundu (KIIT University, IN) Ashish Kundu (IBM Thomas J. Watson Research Center, US) and Mukesh Singhal (University of California Merced, USA)

A Privacy-Preserving kNN Classification Algorithm Using Yao's Garbled Circuit On Cloud Computing (CLOUD2017-3104)

Hyeong-Jin Kim (Chonbuk National University, KR) Hyeong-Il Kim (Agency for Defense Development, KR) and Jae-Woo Chang (Chonbuk National University, KR)

Privacy-Preserving Data Dissemination In Untrusted Cloud (CLOUD2017-3105)

Denis Ulybyshev (Purdue University, US) Bharat Bhargava (Purdue University, US) Miguel Villarreal-Vasquez (Purdue University, US) Aala Oqab Alsalem, Donald Steiner (Northrop Grumman Research Consortium, US) Leon Li (Northrop Grumman Research Consortium, US) Jason Kobes (Northrop Grumman Research Consortium, US) Harry Halpin (W3C/ MIT, US) and Rohit Ranchal (IBM Watson Health Cloud, US)

Session 6: Cloud Performance, Scalability, and Reliability (06/25 Sunday, 16:10-17:10; Honolulu Suite 2)
15 minutes for each paper.

Real-Time Virtual Network Function (VNF) Migration Toward Low Network Latency In Cloud Environments (CLOUD2017-3106)

Daewoong Cho (The University of Sydney, AU) Javid Taheri (The Karlstad University, SE) Albert Y. Zomaya (University of Luxembourg, LU)

Understanding The Influence Of Configuration Settings: An Execution Model-Driven Framework For Apache Spark Platform (CLOUD2017-3107)

Nhan Nguyen (University of Connecticut, US) Mohammad Maifi Hasan Khan (University of Connecticut, US) Yusuf Albayram (University of Connecticut, US) and Kewen Wang (University of Connecticut, US)

Virtual Machine Scaling Method Considering Performance Fluctuation of Public Cloud (CLOUD2017-3108)

Yu Kaneko (Toshiba, JP) Toshio Ito (Toshiba, JP) Masashi Ito (Toshiba, JP) and Hiroshi Kawazoe (Toshiba, JP)

Performance Analysis And Improvement Of Replica Selection Algorithms For Key-Value Stores (CLOUD2017-3109)

Wanchun Jiang (Central South University, CN) Haiming Xie (Central South University, CN) Xiangqian Zhou (Central South University, CN) Liyuan Fang (Central South University, CN) and Jianxin Wang (Central South University, CN)

Session 7: Cloud Applications (06/29 Thursday, 9:25-10:25; Iolani Suite 3)
15 minutes for each paper.

An Analysis Of Open Ports And Port Pairs In EC2 Instances (CLOUD2017-3110)

Beaulah A. Navamani (University of Colorado, US) Chuan Yue (Colorado School of Mines, US) and Xiaobo Zhou (University of Colorado, US)

Breaking Down Hadoop Distributed File Systems Data Analytics Tools: Apache Hive Vs. Apache Pig Vs. Pivotal HWAQ (CLOUD2017-3111)

Xin Chen (Georgia Institute of Technology, US) Liting Hu (Florida International University, US) Liangqi Liu (Florida International University, US) Jing Chang (Florida International University, US) and Diana Leante Bone (Florida International University, US)

Cloud Bursting Scheduler For Cost Efficiency (CLOUD2017-3112)

Young Choon Lee (Macquarie University, AU) and Bing Lian (University of Sydney, AU)

Effect Of Human Learning On Performance Of Cloud Applications (CLOUD2017-3113)
   Arindam Das (York University, CA) and Olivia Das (Ryerson University, CA)

CLOUD Visionary Track

Session 1: Future Cloud Platform (06/29 Thursday, 8:15-9:15; Iolani Suite 3)
Conceptualizing A Computing Platform For Science Beyond 2020: To Cloudify HPC, Or HPCify Clouds?
(CLOUD2017-3114)
   Geoffrey Fox (Indiana University, US) and Shantenu Jha (Rutgers University, US)

2017 IEEE 6th International Congress on Big Data (BigData Congress 2017)

BigData Congress Research Track

Session 1: Machine Learning for Big Data (06/26 Monday, 13:00-14:00; Iolani Suite5)

Comprehensive Predictions Of Tourists' Next Visit Location Based On Call Detail Records And LTSM Machine Learning (BIGDATA2017-4001)

Naichun Chen (MIT, US) Wanqin Xie (MIT, US) Jenny Xie (Wellesley College, US) Kent Larson (MIT, US) Roy Welsch (MIT, US)

Bayesian Networks With Structural Restrictions: Parallelization, Performance, And Efficient Cross-Validation (BIGDATA2017-4002)

Hao Peng (University of Georgia, US) Zhe Jin (University of Georgia, US) John Miller (University of Georgia, US)

Building An SVM Classifier For Automated Selection Of Big Data (BIGDATA2017-4003)

Junhua Ding (East Carolina University, US) Jiabin Wang (East Carolina University, US) Xiaojun Kang (China University of Geosciences, CN) Xin-Hua Hu (East Carolina University, US)

Session 2: Big Data Analytics Framework (06/26 Monday, 14:10-15:10; Iolani Suite5)

Adaptive Concurrent Query Execution Framework For An Analytical In-Memory Database System (BIGDATA2017-4004)

Harshad Deshmukh (University of Wisconsin, US) Hakan Memisoglu (University of Wisconsin, US) Jignesh Patel (University of Wisconsin, US)

Toward Scalable Indexing And Search On Distributed And Unstructured Data (BIGDATA2017-4005)

Alexandru Iulian Orhean (Illinois Institute of Technology, US) Itua Ijagbone (Illinois Institute of Technology US) Ioan Raicu (Illinois Institute of Technology, US) Kyle Chard (University of Chicago, US) Dongfang Zhao (University of Nevada, US)

Scalable, Efficient Anonymization With INCOGNITO - Framework & Algorithm (BIGDATA2017-4006)

Antorweep Chakravorty (University of Stavanger, NO) Chunming Rong (University of Stavanger, NO), K. R. Jayaram (Enterprise Cloud Engineering, US), Shu Tao (Enterprise Cloud Engineering, US)

Session 3: Big Data Privacy and Protection (06/27 Tuesday, 8:15-9:15; Iolani Suite5)

Differentially Private Trajectory Analysis For Points-Of-Interest Recommendation (BIGDATA2017-4007)

Chao Li (University of Pittsburgh, US) Balaji Palanisamy (University of Pittsburgh, US) James Joshi (University of Pittsburgh, US)

Privacy-Preserving Inductive Learning With Decision Trees (BIGDATA2017-4008)

Stacey Truex (Georgia Institute of Technology, US) Ling Liu (Georgia Institute of Technology, US) Mehmet Emre Gursoy (Georgia Institute of Technology, US) Lei Yu (Georgia Institute of Technology, US)

SafeNVM: A Non-Volatile Memory Store With Thread-Level Page Protection (BIGDATA2017-4009)

Pradeep Kumar (The George Washington University, US) H. Howie Huang (The George Washington University, US)

Session 4: Social Big Data (06/27 Tuesday, 9:25-10:25; Iolani Suite5)

Maximizing The Effectiveness Of Advertising Campaigns On Twitter (BIGDATA2017-4010)

Yan Mei (Macquarie University, AU) Weiliang Zhao (Macquarie University, AU) Jian Yang (Macquarie University, AU)

Big Social Data Analytics In Football: Predicting Spectators And TV Ratings From Facebook Data (BIGDATA2017-4011)

Nicolai H. Egebjerg (Copenhagen Business School, DK) Niklas Hedegaard (Copenhagen Business School, DK) Gerda Kuum (Copenhagen Business School, DK) Raghava Rao Mukkamala (Copenhagen Business School, DK) Ravi Vatrapu (Copenhagen Business School, DK)

Big Social Data Analytics For Public Health: Predicting Facebook Post Performance Using Artificial Neural Networks And Deep Learning (BIGDATA2017-4012)

Nadiya Straton (Copenhagen Business School, DK) Raghava Rao Mukkamala (Copenhagen Business School, DK) Ravi Vatrapu (Copenhagen Business School, DK)

Session 5: Big Data Systems (06/27 Tuesday, 13:00-14:00; Iolani Suite5)

A Model-Driven Methodology For Big Data Analytics-as-a-Service (BIGDATA2017-4013)

Claudio Agostino Ardagna (Università degli Studi di Milano, IT) Valerio Bellandi (Università degli Studi di Milano, IT) Paolo Ceravolo (Università degli Studi di Milano, IT) Ernesto Damiani (Khalifa University, AE) Michele Bezzi (SAP, FR) Cedric Hebert (SAP, FR)

Bleach: A Distributed Stream Data Cleaning System (BIGDATA2017-4014)

Yongchao Tian (Eurecom, FR) Pietro Michiardi (Eurecom, FR) Marko Vukolic (IBM Research, CH)

Zero-day Attack Identification In Streaming Data Using Semantics And Spark (BIGDATA2017-4015)

Sai Pallaprolu (University of Maryland, US) Muthu Thevar (University of Maryland, US) Rishi Sankineni (University of Maryland, US) George Karabatis (University of Maryland, US) Jianwu Wang (University of Maryland, US)

Session 6: Big Data Performance (06/28 Wedsday, 8:15-9:15; Iolani Suite5)

An Integrated Software System For Supporting Real-Time Near-Infrared Spectral Big Data Analysis And Management (BIGDATA2017-4016)

Liping Zhao (University of Manchester, UK; CAS, CN) Shupeng Hu (University of Manchester, UK) Xiaojun Zeng (University of Manchester, UK) Yuejin Wu (CAS, CN) Yanqing Lin (CAS, CN) Jing Liu (CAS, CN) Shuang Fan (CAS, CN)

Big Data Processing: Scalability with Extreme Single-Node Performance (BIGDATA2017-4017)

Venkatraman Govindaraju (Oracle Labs, US) Sam Idicula (Oracle Labs, US) Sandeep Agrawal (Oracle Labs, US) Venkatanathan Varadarajan (Oracle Labs, US) Arun Raghavan (Oracle Labs, US) Jarod Wen (Oracle Labs, US) Cagri Balkesen (Oracle Labs, US) Georgios Giannikis (Oracle Labs, US) Nipun Agarwal (Oracle Labs, US) Eric Sedlar (Oracle Labs, US)

Parallel Compression And Indexing Of Large-Scale Geospatial Raster Data With GPGPUs (BIGDATA2017-4018)

Nathalie Kaligirwa (University of Oklahoma, US) Eleazar Leal (University of Oklahoma, US) Le Gruenwald (University of Oklahoma, US) Jianting Zhang (City College of New York, US) Simin You (CUNY Graduate Center, US)

Session 7: Resource Management in Big Data (06/28 Wedsday, 9:25-10:25; Iolani Suite5)

Scheduling Recurring Distributed Dataflow Jobs Based On Resource Utilization And Interference (BIGDATA2017-4019)

Lauritz Thamsen (TU Berlin, DE) Benjamin Rabier (TU Berlin, DE) Florian Schmidt (TU Berlin, DE) Thomas Renner (TU Berlin, DE) Odej Kao (TU Berlin, DE)

Resource Allocation In Cloud-Based Distributed Cameras (BIGDATA2017-4020)

Bikash Agrawal (DNVGL, NO) Jayachander Surbiryala (University of Stavanger, NO) Chunming Rong (University of Stavanger, NO)

Resource Management For Parallel Processing Frameworks With Load Awareness At Worker Side (BIGDATA2017-4021)

Son-Hai Ha (Orange, FR) Patrick Brown (Orange, FR) Pietro Michiardi (Eurecom, FR)

Session 8: Big Data Processing (06/28 Wedsday, 13:00-14:00; Iolani Suite5)

CEPaaS: Complex Event Processing As A Service (BIGDATA2017-4022)

Wilson A. Higashino (Western University, CA) Miriam A. M. Capretz (Western University, CA) Luiz F. Bittencourt (University of Campinas, BR)

Towards Elucidating the Structural Principles Of Host-Pathogen Protein-Protein Interaction Networks: A bioinformatics survey (BIGDATA2017-4023)

Huaming Chen (University of Wollongong, AU) Jiangning Song (Monash University, AU) Geng Sun (University of Wollongong, AU) Jun Shen (University of Wollongong, AU) Lei Wang (University of Wollongong, AU)

OB-Tree: Accelerating Data Cleaning in Out-of-Core Column-Store Databases (BIGDATA2017-4024)

Feng Yu (Youngstown State University, US) Brandon J. Latronics (Youngstown State University, US) Tyler Matacic (Youngstown State University, US) Eric S. Jones (Youngstown State University, US)

Session 9: Big Data Learning (06/28 Wedsday, 14:10-15:10; Iolani Suite5)

A Deep-Learning Based Precipitation Forecasting Approach Using Multiple Environmental Factors (BIGDATA2017-4025)

Pengcheng Zhang (Hohai University, CN) Lei Zhang (Hohai University, CN) Hareton Leung (Hong Kong Polytechnic University, HK) Jimin Wang (Hohai University, CN)

What Are My Users Looking For When Preparing A Big Data Campaign (BIGDATA2017-4026)

Claudio Ardagna (Univesità degli Studi di Milano, IT) Paolo Ceravolo (Univesità degli Studi di Milano, IT) Guido Lena Cota (Univesità degli Studi di Milano, IT) Muhammad Muneeb Kiani (Univesità degli Studi di Milano, IT)
Ernesto Damiani (Khalifa University, AE)

Content Embedding Regularized Matrix Factorization For Recommender Systems (BIGDATA2017-4027)

Hao Wu (Yunnan University, CN) Zhengxin Zhang (Yunnan University, CN) Kun Yue (Yunnan University, CN) Binbin Zhang (Yunnan University, CN) Ruichao Zhu (Yunnan University, CN)

Session 10: Big Data Case Study (06/28 Wedsday, 15:20-16:20; Iolani Suite5)

A Spatio-Temporal Mining Approach For Enhancing Satellite Data Availability: A Case Study On Blue Green Algae (BIGDATA2017-4028)

VINAY BODDULA (University of Georgia, US) Lakshmish Ramaswamy (University of Georgia, US) Deepak Mishra (University of Georgia, US)

Real-Time Anomaly Detection Of Short Time-Scale GWAC Survey Light Curves (BIGDATA2017-4029)

Tianzhi Feng (Beijing University of Technology, CN) Zhihui Du (Tsinghua University, CN) Yankui Sun (Tsinghua University, CN) Jianyan Wei (National Astronomical Observatories of China, CN) Jing Bi (Beijing University of Technology, CN) Jason Liu (Florida International University, US)

BigData Congress Visonary Track

Session 1: BigData Outlook I (06/28 Wednesday, 9:25-10:25; Iolani Suite6)

Parallel Processing Over Spatial-Temporal Datasets From Geo, Bio, Climate And Social Science Communities: A Research Roadmap (BIGDATA2017-4030)

Sushil K. Prasad (Georgia State University, US) Danial Aghajarian (Georgia State University, US) Michael McDermott (Georgia State University, US) Dhara Shah (Georgia State University, US) Mohamed Mokbel (University of Minnesota, US) Satish Puri (Marquette University, US) Sergio J. Rey (University of California Riverside, US) Shashi Shekhar (University of Minnesota, US) Yiqun Xe (University of Minnesota, US) Ranga Raju Vatsavai (North Carolina State University, US) Fusheng Wang (Stony Brook University, US) Yanhui Liang (Stony Brook University, US) Hoang Vo (Stony Brook University, US) Shaowen Wang (University of Illinois at Urbana, US)

An Optimization Approach for Adaptive Monitoring in IoT Environments (BIGDATA2017-4031)

Samir Tata (IBM, US) Aly Megahed (IBM, US) Mohamed Mohamed (IBM, US) Ahmed Nazeem (IBM, US) Ahmed El Harouni (IBM, US)

Session 2: BigData Outlook II (06/28 Wednesday, 15:20-16:20;Iolani Suite6)

Adding Support For Theory In Open Science Big Data (BIGDATA2017-4032)
John A. Miller (University of Georgia, US) Hao Peng (University of Georgia, US) Michael E.Cotterell (University of Georgia, US)

Towards A Framework For Developing Cyber Privacy Metrics: A Vision Paper (BIGDATA2017-4033)
Bhavani Thuraisingham and Murat Kantarcioglu (The University of Texas at Dallas, US), Elisa Bertino and Chris Clifton (Purdue University, US)

BigData Congress Applications Track

Session 1: Big Data QoS (06/26 Monday, 13:00-14:00; Iolani Suite6)

De-centralized Reputation-based Trust Model To Discriminate Between Cloud Providers Capable Of Processing Big Data (BIGDATA2017-4034)
Hadeel T. El Kassabi (Concordia University CA & UAE University, AE) Mohamed Adel Serhani (UAE University, AE)

A Multivariate Clustering Approach For Infrastructure Failure Predictions (BIGDATA2017-4035)
Simon Luo (DATA61 AU & University of Tasmania, AU) Victor W. Chu (Nanyang Technological University, SG) Jianlong Zhou (DATA61, AU) Fang Chen (DATA61, AU) Raymond K. Wong (UNSW, AU) Weidong Huang (University of Tasmania, AU)

Microblog Sentiment Classification Using Parallel SVM In Apache Spark (BIGDATA2017-4036)
Bo Yan (Beijing Institute of Technology, CN) Zijiang Yang (York University, CA) Yitian Ren (Beijing Institute of Technology, CN) Xing Tan (York University, CA) Eric Liu (Unionville Montessori Private School, CA)

Session 2: Machine Learning in Big Data (06/26 Monday, 14:10-15:10; Iolani Suite6)

Drowsy Driving Warning System Based On GS1 Standards With Machine Learning (BIGDATA2017-4037)
Seongjoo Moon (Mando, KR & KAIST, KR) Moran Min (KAIST, KR) Jangwoo Nam (Solutionlink KR & KAIST, KR) Jaeyou Park (KAIST, KR) Doheon Lee (Mando, KR & KAIST, KR) Daeyoung Kim (KAIST, KR)

An Effective Distributed GHSOM Algorithm For Unsupervised Clustering On Big Data (BIGDATA2017-4038)
Chui-Hui Chiu (National Chengchi University, Taiwan) Jin-Jie Chen (National Chengchi University, Taiwan) Fang Yu (National Chengchi University, Taiwan)

Integrating Extractive And Abstractive Models For Long Text Summarization (BIGDATA2017-4039)
Shuai Wang (National University of Defense Technology, CA) Xiang Zhao (National University of Defense Technology, CA) Bo Li (National University of Defense Technology, CN) Bin Ge (National University of Defense Technology, CN) Daquan Tang (National University of Defense Technology, CN)

Session 3: Big Data Processing (06/27 Tuesday, 8:15-9:15; Iolani Suite6)

SCMAT: A Mechanism Presuming SCMs To Efficiently Enable both OLAP And OLTP (BIGDATA2017-4040)
Takamitsu Shioi (Tokyo institute of Technology, JP) Kenji Hatano (Doshisha University, JP) Haruo Yokota (Tokyo institute of Technology, JP)

A Real-time Scheduling Strategy Based On Processing Framework Of Hadoop (BIGDATA2017-4041)
Fangbing Chen (Peking University, CN) Ji Liu (Peking University, CN) Yuesheng Zhu (Peking University, CN)

Developing A Real-Time Data Analytics Framework For Twitter Streaming Data (BIGDATA2017-4042)
Babak Yadranjiaghdam (East Carolina University, US) Seyedfaraz Yasrobi (East Carolina University, US) Nasseh Tabrizi (East Carolina University, US)

Session 4: Big Data Mining (06/27 Tuesday, 9:25-10:25; Iolani Suite6)

Locating Sources In Online Social Networks Via Random Walk (BIGDATA2017-4043)
Zhijian Zhang (Yunnan University, CN) Kun Yue (Yunnan University, CN) Zhengbao Sun (Yunnan University, CN) Ling Liu (Yunnan Police Officer Academy, CN) Weiyi Liu (Yunnan University, CN)
Big Data and Analysis Of Data Transfers For International Research Networks Using NetSage (BIGDATA2017-4044)
Alberto Gonzalez (University of Hawaii Mānoa, US) Jason Leigh (University of Hawaii Mānoa, US) Sean Peisert (Lawrence Berkley National Lab, US) Brian Tierney (Lawrence Berkley National Lab, US) Edward Balas (Indiana University, US) Predrag Radulovic (Indiana University, US) Jennifer M. Schopf (Indiana University, US)
PAS4SCF - A Publication Analytics System For Services Conference Federation (SCF 2004-2016) (BIGDATA2017-4045)
Liang-Jie Zhang (Kingdee Research, CN) Huan Chen (Kingdee Research, CN)

Session 5: Big Data Algorithms (06/27 Tuesday, 13:00-14:00; Iolani Suite6)

I-sampling: A New Block-Based Sampling Method For Large-Scale Dataset (BIGDATA2017-4046)
Yulin He (Shenzhen University, CN) Joshua Zhexue Huang (Shenzhen University, CN) Hao Long (Shenzhen University, CN) Qiang Wang (Shenzhen University, CN) Chenghao Wei (Shenzhen University, CN)
Leveraging Stacked Denoising Autoencoder In Prediction Of Pathogen-Host Protein-Protein Interactions (BIGDATA2017-4047)
Huaming Chen (University of Wollongong, AU) Jun Shen (University of Wollongong, AU) Lei Wang (University of Wollongong, AU) Jiangning Song (Monash University, AU)
Experiences With The Twitter Health Surveillance (THS) System (BIGDATA2017-4048)
Manuel Rodriguez (UPR Mayague,z US)

Session 6: Big Data Case Studies (06/28 Wedsday, 8:15-9:15; Iolani Suite6)

Data Governance Framework For Big Data Implementation With A Case Of Korea (BIGDATA2017-4049)
Hee-Yeong Kim (Hankuk University of Foreign Studies, KR) June-Suh Cho (Hankuk University of Foreign Studies, KR)
Educational And Scientific Applications Of Climate Model Diagnostic Analyzer (#12037) (BIGDATA2017-4050)
Seungwon Lee (JPL, US) Chengxing Zhai (JPL, US) Terence Kubar (JPL/UCLA, US) Benyang Tang (JPL, US) Lei Pan (JPL, US) Juilin Li (JPL, US) Qihao Bao (CMU, US)
Implementation Of Disaster Prevention-Oriented Information Service Platform Of XRAIN On DIAS (BIGDATA2017-4051)
Hitomi Sano (Ochanomizu University, JP) Eiji Ikoma (The University of Tokyo, JP) Kitsuregawa Masaru (National Institute of Informatics, JP) Masato Oguchi (Ochanomizu University, JP)

Session 7: Big Data Models (06/28 Wedsday, 13:00-14:00; Iolani Suite6)

New E-Commerce User Interest Patterns (BIGDATA2017-4052)
Matthias Volk (Magdeburg Research, DE) Abed Elrahman Shareef (Magdeburg Research, DE) Naoum Jamous (Magdeburg Research, DE) Klaus Turowski (Magdeburg Research, DE)
Big Data Analysis and Visualization for the Smart Grid (BIGDATA2017-4053)
Wilson Rivera (University of Puerto Rico, US) Alejandro Sanchez (University of Puerto Rico, US)

Session 8: Big Data Analysis (06/28 Wedsday, 14:10-15:10; Iolani Suite6)

Compliance Analysis Of Configurable Business Process Model Based On Extend CTL (BIGDATA2017-4054)
Huang Yiwang (Tongren University, CN)
Any-time Methods For Time-Series Prediction With Missing Observations (BIGDATA2017-4055)
Yanjie Wei (Harbin Institute of Technology, CN) Hongzhi Wang (Harbin Institute of Technology, CN) Shengfei Shi

(Harbin Institute of Technology, CN) Hong Gao (Harbin Institute of Technology, CN) Jianzhong Li (Harbin Institute of Technology, CN)

BigData Congress Theme Track

Session 1: Big Data Management (06/29 Thursday, 8:15-9:15; Iolani Suite6)

TeenRead: An Adolescents Reading Recommendation System Towards Online Bibliotherapy (BIGDATA2017-4056)
Yunxing Xin (Tsinghua University, CN) Yongqiang Chen (Tsinghua University, CN) Li Jin (Tsinghua University, CN) Yici Cai (Tsinghua University, CN) Ling Feng (Tsinghua University, CN)
A Resilient Index Graph For Querying Large Biological Scientific Data (BIGDATA2017-4057)
Liang Li (Chinese Academy of Sciences, CN) Zhihong Shen (Chinese Academy of Sciences, CN) Jianhui Li (Chinese Academy of Sciences, CN) Dongjiang Liu (Chinese Academy of Sciences, CN) Huajin Wang,,Lipeng Wang ((Chinese Academy of Sciences, CN) Qinglan Sun (Chinese Academy of Sciences, CN)
SPARQL Query Parallel Processing: A Survey (BIGDATA2017-4058)
Jiaying Feng (Tianjin University, CN) Chenhong Meng (Tianjin University, CN) Jiaming Song (Tianjin University, CN) Xiaowang Zhang (Tianjin University, CN) Zhiyong Feng (Tianjin University, CN) Lei Zou (Peking University, CN)

Session 2: Big Data Management (06/29 Thursday, 9:25-10:25; Iolani Suite6)

Burst-Based Event Classification On Weakly Labeled Time Series Data Of Sensors (BIGDATA2017-4059)
Hanbo Zhang (Fudan University, CN) Yawen Wang (Fudan University, CN) Peng Wang (Fudan University, CN) Wei Wang (Fudan University, CN)
Bootstrapping A Blockchain Based Ecosystem For Big Data Exchange (BIGDATA2017-4060)
Jinchuan Chen (Renmin University of China, CN) Yunzhi Xue (Chinese Academy of Sciences, CN)
The Performance of SQL-on-Hadoop Systems An Experimental Study (BIGDATA2017-4061)
Xiongpai Qin (Renmin University of China, CN) Yueguo Chen (Renmin University of China, CN) Jun Chen (Renmin University of China, CN) Shuai Li (Renmin University of China, CN) Jiesi Liu (Renmin University of China, CN) Huijie Zhang (Renmin University of China, CN)

Session 3: Real-Time Big Data Analytics (06/29 Thursday, 13:00-14:00; Iolani Suite6)

Real Time Social Attitude Expression Prediction (BIGDATA2017-4062)
Jiawei Zhang (UIC, US) Philip S. Yu (UIC, US) Charu C. Aggarwal (IBM, US) Limeng Cui (UCAS, UK)
A Hybrid Learning Framework For Imbalanced Stream Classification (BIGDATA2017-4063)
Wenbin Zhang (University of Maryland, US) Jianwu Wang (University of Maryland, US)
Personalized Recommendation Algorithm Based On LFM With QoS Constraint (BIGDATA2017-4064)
Ying Jin (Hefei University, CN) Yiwen Zhang (Anhui University, CN)

BigData Congress Short Paper Track

Session 1: Big Data Processing (06/25 Sunday, 8:45-9:45; Iolani Suite6)
15 minutes for each paper.

Clustering Data Streams With Adaptive Forgetting (BIGDATA2017-4065)
Gopi Chand Nutakki (University of Louisville, US) Olfa Nasraoui (University of Louisville, US)
Big Data Pre-Processing: Closing The Data Quality Enforcement Loop (BIGDATA2017-4066)
Ikbal Taleb (Concordia University, CA) Mohamed Adel Serhani (UAE University, AE)

Cloud-Based And Big Data-Enabled Brokerage System For Smart Grids (BIGDATA2017-4067)
Howard Martinez (University of Puerto, PR) Manuel Rodriguez (University of Puerto, PR)
Graph Computation And Its Applications In Smart Grid (BIGDATA2017-4068)
Guangyi Liu (GEIRI North America Inc., US) Kewen Liu (GEIRI North America Inc., US) Di Shi (GEIRI North America Inc., US) Xi Chen (GEIRI North America Inc., US) Wendong Zhu (GEIRI North America Inc., US) Zhiwei Wang (GEIRI North America Inc., US)

Session 2: QoS of Big Data (06/25 Sunday, 9:55-10:55; Iolani Suite6)
15 minutes for each paper.

Open Medical Big Data And Open Consent And Their Impact On Privacy (BIGDATA2017-4069)
Jingquan Li (Texas A&M University)
Enhancing Energy, Health And Security Policy By Extracting, Enriching And Interfacing Next Generation Data In The Transport Domain (A Study On The Use Of Big Data In Cross-Sectoral Policy Development) (BIGDATA2017-4070)
Susan Grant-Muller (University of Leeds, UK) Frances Hodgson (University of Leeds, UK) Nicholas Malleson (University of Leeds, UK) Robert Snowball (Newcastle City Council, UK)
Managing Emerging Risks And Liabilities In Data-Enabled Solutions (BIGDATA2017-4071)
Olaitan Olaleye (Philips R&D, NL) Talmai Oliveira (Philips R&D, NL) Alexandru Darie (Philips R&D, NL)
Ecosystem Design Of Big Data Through Previous Study Analysis In The World: Policy Design For Big Data As Public Goods (BIGDATA2017-4072)
HyeJung Moon (ILP, CLI, Seoul Tech University, KR) KwanWoo Kim (Cooperate Lottery Institute, KR) SungKyung Kim (Crossent, KR) JangHo Park (Institute of Lottery Policy, KR)
Challenges Of Software Testing For Astronomical Big Data (BIGDATA2017-4073)
Lixiao Zhou (Chinese Academy of Sciences, CN) Maohai Huang (Chinese Academy of Sciences, CN)

Session 3: Big Data Applications (06/25 Sunday, 11:20-12:20; Iolani Suite6)
15 minutes for each paper.

A Distributed System For Fining High Profit Areas Over Big Taxi Trip Data With MongoDB And Spark (BIGDATA2017-4074)
Fadhilah Putri (Pusan National University, KR) Joonho Kwon (Pusan National University, KR)
Comparison of Gambling Industry through Study Analysis in the World (BIGDATA2017-4075)
HyeJung Moon (ILP, CLI, Seoul Tech University, KR) Thomas Yang (Intralot S.A.) SungKyung Kim (Crossent, KR) JangHo Park (Institute of Lottery Policy, KR)
Big data Analysis on Gambling related News in South Korea (BIGDATA2017-4076)
HyeJung Moon (ILP, CLI, Seoul Tech University, WillBe Solution, KR) SungKyung Kim (Crossent, KR) Thomas Yang (Intralot S.A.) KwanWoo Kim (Cooperate Lottery Institute, KR)
Semantic Analysis of Transportation related Researches (BIGDATA2017-4077)
SiYeun Lee (The Korea Transport Institute, KR) HyeJung Moon (ILP, CLI, Seoul Tech University, KR)

Session 4: Satellite Session (06/25 Sunday, 13:30-14:30; Iolani Suite6)

Business Graphing For Internet-Enabled Enterprises (BIGDATA2017-4078)
Bo Hu (Kingdee, CN) Jian Wang (Wuhan University, CN) Yutao Ma (Wuhan University, CN) Liang-Jie Zhang (Kingdee, CN)
An Overview Of Blockchain Technology: Architecture, Consensus, And Future Trends (BIGDATA2017-4079)
Zibin Zheng (Sun Yat-sen University, CN) Shaoan Xie (Sun Yat-sen University, CN) Hongning Dai (Macau University, CN) Xianping Chen (Research Center of Digital Life, CN) Huaimin Wang (National Laboratory for Parallel, CN)
A New Sleep Mechanism Based On SDN Framework (BIGDATA2017-4080)
Yu Peizhao (Wuhan University of Tech, CN) Xu Lei (Wuhan University of Science and Technology, CN) Gu Jinguang (Wuhan University of Science and Technology, CN) He Heng (Wuhan University of Science and Technology, CN)
CloudSec：A Novel Approach To Verifying Security Conformance At The Bottom Of The Cloud (BIGDATA2017-4081)
Liu Xiaochen (Beihang University)
Cutting Parameters Optimization Based On ITLBO Algorithm With BigData Driven (BIGDATA2017-4082)
Wang Chen (Shanghai University, CN) Dong Yao (Shanghai University, CN)

2017 IEEE 13th World Congress on Services (SERVICES 2017)

SERVICES Research Track

Session 1: Cloud and Data Engineering (06/28 Wednesday, 13:00-14:00; lolani 7)

Secure-EPCIS: Addressing Security Issues In EPCIS For IoT Applications (SERVICES2017-5001)
Sungpil Woo (KAIST, KR) Jaehee Ha (KAIST, KR) Jaewook Byun (KAIST, KR) Kiwoong Kwon (KAIST, KR) Yalew Tolcha (KAIST, KR) Daeyoun Kang (KAIST, KR) Hoang Minh Nguyen (KAIST, KR) Myungchul Kim(KAIST, KR)Daeyoung Kim (KAIST, KR)

Engineering Scalable, Secure, Multi-tenant Cloud For Healthcare Data (SERVICES2017-5002)
Daniel J. Dean (IBM, US) Rohit Ranchal (IBM, US) Yu Gu(IBM, US) Anca Sailer (IBM, US) Shakil Khan (IBM, US) Kirk Beaty (IBM, US) Senthil Bakthavachalam (IBM, US) Yichong Yu (IBM, US) Yaoping Ruan(IBM, US) Paul Bastide (IBM , US)

Cloud Strife: Expanding The Horizons Of Cloud Gaming Services (SERVICES2017-5003)
Joseph Doyle (UEL, UK) Syed Islam (UEL, UK) Rabih Bashroush (UEL, UK) Donal O'Mahony (TCD, UK)

Session 2: Software Engineering In/For Cloud (06/28 Wednesday, 14:10-15:10; lolani 7)

RE2SEP: A Two-Phases Pattern-Based Paradigm For Software Service Engineering (SERVICES2017-5004)
Xiaofei Xu (HIT, CN) Ruilin Liu (HIT, CN) Zhongjie Wang (HIT, CN) Zhiying Tu(HIT, CN) Hanchuan Xu(HIT ,CN)

Adding Support For Theory In Open Science Big Data (SERVICES2017-5005)
John A. Miller (University of Georgia, US) Hao Peng (University of Georgia, US) Michael E. Cotterell (University of Georgia, US)

Provenance-Based Analytics Services For Access Control Policies (SERVICES2017-5006)
Elisa Bertino(Purdue University, US)Amani Abu Jabal(Purdue University, US)Christian Makaya(IBM Thomas J. Watson, US) Seraphin Calo(IBM Thomas J. Watson, US)Maroun Touma(IBM Thomas J. Watson, US) Dinesh Verma(IBM Thomas J.Watson, US) Christopher Williams(IBM Thomas J. Watson, US)

SERVICES Applications Track

Session 1: Cloud and Analytics (06/28 Wednesday, 15:20-16:20; lolani 7)

Improving Cloud Computing Virtual Machines Balancing Through Hosts and Virtual Machines Similarities (SERVICES2017-5007)
Gabriel Beims Bräscher (Federal University, BR) Rafael Weingärtner (University of Quebec, CA) Carlos Becker Westphall (Federal University, BR)

Comprehensive Evaluation of Urban Sustainable Innovation Ability Based On Factor Analysis Method (SERVICES2017-5008)
Xin-Nan Li (Kingdee Research, CN) Liang-Jie Zhang (Kingdee Research, CN) Huan Chen (Kingdee Research, CN)

SERVICES Short Paper Track

Session 1: Cloud and Analytics (06/29 Thursday, 13:00-14:00; lolani 7)

15 minutes for each paper.

Extracting Patterns And Variations In Air Quality Of Four Tier I Cities In India (SERVICES2017-5009)

Alka Yadav (Indian Institute of Technology, IN) Durga Toshniwal (Indian Institute of Technology, IN)

The Scoring Matrix Generation Method and Recommendation Algorithm in P2P Lending (SERVICES2017-5010)

Yanmei Zhang (Central University, CN) Xiao Geng (Central University, CN) Hengyue Jia (Central University, CN)

Blockchain-Based System For Secure Data Storage With Private Keyword Search (SERVICES2017-5011)

Hoang Giang Do (Nanyang Technological University, SG) Wee Keong Ng (Nanyang Technological University, SG)

SERVICES Emerging Technologies Track

Session 1: Cloud and IoT (06/29 Thursday, 14:10-15:10; lolani Suite7)

Models@runtime For Monitoring Cloud Services In Google App Engine (SERVICES2017-5012)

Silvia Abrahao (Universitat Politecnica de Valencia, ES) Emilio Insfran (Universitat Politecnica de Valencia, ES)

Docker2RDF: Lifting The Docker Registry Hub Into RDF (SERVICES2017-5013)

Ahmed Ben Ayed (Université de Lyon, FR) Julien Subercaze (Université de Lyon, FR) Frederique Laforest (Université de Lyon,FR) Tarak Chaari (Sfax University, CA) Wajdi Louati (Sfax University,CA) Ahmed Hadj Kacem (Sfax University ,CA)

Towards a Visualization Framework for Service Selection in Cloud e-Marketplaces (SERVICES2017-5014)

Azubuike Ezenwoke (Covenant University, NG) Olawande Daramola (Covenant University, NG) Matthew Adigun (University of Zululand, ZA)

Location Data Analytics For Space Management (SERVICES2017-5015)

David Caicedo (Philips Lighting, US) Ashish Pandharipande (Philips Lighting, US)

Wearable IoT Data Architecture (SERVICES2017-5016)

Richard K. Lomotey (Penn State University, US) Joseph Pry (Penn State University, US) Sumanth Sriramoju (Penn State University, US) Emmanuel Kaku (University of Saskatchewan, US) Ralph Deters (University of Saskatchewan, US)

Session 2: UML and Services (06/29 Thursday, 8:15-9:15; lolani Suite7)

gUML: Reasoning About Energy At Design Time By Extending UML Deployment Diagrams With Data Centre Contextual Information (SERVICES2017-5017)

Nigar Jebraei (UEL, US) Adel Noureddine (UEL, US) Joseph Doyle (UEL, US) Syed Islam (UEL, US) Rabih Bashroush (UEL, US)

Agent-centred Approach For Assuring Ethics In Dependable Service Systems (SERVICES2017-5018)

Irfan Sljivo (Malardalen University, SE) Elena Lisova (Malardalen University, SE) Sara Afshar (Malardalen University, SE)

SERVICES Visionary Track

Session 1: Services IoT (06/29 Thursday, 9:25-10:25; lolani Suite7)

AUSOM: Autonomic Service-Oriented Middleware For IoT-based Systems (SERVICES2017-5019)

Umesh Bellur (IIT Bombay, IN) Nanjangud C. Narendra (Ericsson Research Bangalore, IN) Swarup Kumar Mohalik (Ericsson Research Bangalore, IN)

A Semantic-enabled Framework For Future Internet Of Things Applications (SERVICES2017-5020)

Umesh Bellur (Indian Institute of Technology Bombay, IN) Pankesh Patel (ABB Corporate Research, IN) Saurabh Chauhan (Rklick Inc, IN) Yongrui Qin (University of Huddersfield, UK)

2017 IEEE 6th International Conference on AI and Mobile Services (AIMS 2017)

AIMS Research Track

Session 1: Analytics of IT Services (06/26 Monday, 13:00-14:00; Iolani Suite7)

MixedWalk: Explore Ahead Before Stepping In Mobile Augmented Reality Services (AIMS2017-6001)
Jun Lee (Korea Aerospace University, KR) Kyoung-Sook Kim (National Institute of Advanced Industrial Science and Technology, KR) Hirotaka Ogawa (National Institute of Advanced Industrial Science and Technology, KR) Yongjin Kwon (Korea Aerospace University, KR)

A Method For Selecting Peer Deals In IT Service Contracts (AIMS2017-6002)
Aly Megahed (IBM Research Almaden, US) Shubhi Asthana (IBM Research Almaden, US) Valeria Becker (IBM Research Almaden, US) Taiga Nakamura (IBM Research Almaden, US) Kugamoorthy Gajananan (IBM Research Tokyo, JP)

Semantic-Aware IoT platforms (AIMS2017-6003)
Mahdi Ben Alaya (Sensinov, FR) Khalil Drira (LAAS-CNRS, FR) Ghada Gharbi (LAAS-CNRS, FR)

Session 2: Mobile Services & Healthcare (06/26 Monday, 14:10-15:10; Iolani Suite7)

A Recommendation System For Proactive Health Monitoring Using IoT And Wearable Technologies (AIMS2017-6004)
Shubhi Asthana (IBM Research Almaden, US) Aly Megahed (IBM Research Almaden, US) Ray Strong (IBM Research Almaden, US)

Mobile Crowdsensing Services For Tinnitus Assessment And Patient Feedback (AIMS2017-6005)
Rüdiger Pryss (Ulm University,DE) Winfried Schlee (University of Regensburg,DE) Berthold Langguth (University of Regensburg,DE) Manfred Reichert (Ulm University,DE)

Supporting Remote Therapeutic Interventions With Mobile Processes (AIMS2017-6006)
Marc Schickler (Ulm University, DE) Rüdiger Pryss (Ulm University, DE) Johannes Schobel (Ulm University, DE) Manfred Reichert (Ulm University, DE)

Session 3: Management of IoT Services (06/27 Tuesday, 8:15-9:15; Iolani Suite7)

Foggy: A Framework For Continuous Automated IoT Application Deployment In Fog Computing (AIMS2017-6007)
Emre Yigitoglu (Georgia Institute of Technology, US) Mohamed Mohamed (IBM Research Almaden, US) Ling Liu (Georgia Institute of Technology, US) Heiko Ludwig (IBM Research Almaden, US)

Composing Continuous Services in a CoAP-based IoT (AIMS2017-6008)
Benjamin Billet (Inria, FR) Valerie Issarny (Inria, FR) Geraldine Texier (IMTAtlantique, FR)

Activity Recognition As A Service For Smart Home: Ambient Assisted Living Application Via Sensing Home (AIMS2017-6009)
Xiaohu Fan (HUST, CN) Si Chen (Wuhan National Laboratory for Optoelectronics, CN) Hao Huang (HUST, CN) Changsheng Xie (Wuhan National Laboratory for Optoelectronics, CN) Qubo Xie (HUST, CN) Xuebin Li (HUST, CN) Jian Wang (HUST, CN) Jiajing Chen (Wuhan University, CN)

Session 4: Management of Application and Mobile Services (06/27 Tuesday, 9:25-10:25; Iolani Suite7)

Data Analytics For IT Service Deals' Solutioning: Methodologies And Practical Implications (AIMS2017-6010)

Aly Megahed (IBM Research Almaden, US)
Restful-based Mobile Web Service Migration Framework (AIMS2017-6011)
M. Mohanned Kazzaz (Brno University, US) Marek Rychlý (Brno University, US)
ADARM: An Application-Driven Adaptive Resource Management Framework For Data Centers (AIMS2017-6012)
Min Luo (Huawei, CN) Li Li (Huawei, CN) Wu Chou (Huawei, CN)

AIMS Applications Track

AIMS Applications Track Session (06/27 Tuesday, 13:00-14:00; Iolani Suite7)

CyanoSense: A Wireless Remote Sensor System Using Raspberry-Pi and Arduino With Application To Algal Bloom (AIMS2017-6013)
Vinay Bodddula (University of Georgia, US) Lakshmish Ramaswamy (University of Georgia, US) Deepak Mishra (University of Georgia, US)
Middleware Framework For IoT Services Integration (AIMS2017-6014)
Richard K. Lomotey (Penn State University, US) Joseph Pry (Penn State University, US) Sumanth Sriramoju (Penn State University, US) Emmanuel Kaku (University of Saskatchewan, CA) Ralph Deters (University of Saskatchewan, CA)
Personal Archive Service System Using Blockchain Technology: Case Study, Promising And Challenging (AIMS2017-6015)
Zhixiong Chen (Mercy College, US), Yixuan Zhu (Mercy College, US)

AIMS Short Paper Track

Session 1: Social Mobile Services (06/28 Wedsday, 8:15-9:15; Iolani Suite7)

Context-Based Prevention and Handling Of Exceptions For Human-Centric Mobile Services (AIMS2017-6016)
Rüdiger Pryss (Ulm University, DE) Manfred Reichert (Ulm University, DE)
Towards Psychometrics-Based Friend Recommendations In Social Networking Services (AIMS2017-6017)
Felix Beierle (Technische Universität Berlin, DE) Kai Grunert (Technische Universität Berlin, DE) Sebastian Göndör (Technische Universität Berlin, DE) Viktor Schlüter (Technische Universität Berlin, DE)
Migrating Monolithic Mobile Application To Microservice Architecture: An Experiment Report (AIMS2017-6018)
Chen-Yuan Fan (National Taiwan Ocean University, Taiwan) Shang-Pin Ma (National Taiwan Ocean University, Taiwan)

Session 2: IoT and Mobile Services (06/28 Wedsday, 9:25-10:25; Iolani Suite7)
Session Chair: Winfried Schlee, University of Regensburg, DE

A New Method of Controlling IoT Devices Based On Cloud Storage Service (AIMS2017-6019)
Zhiyao Liang (MUST, CN) Qiaoyang Zhang (MUST, CN)
EA-GLES: An Energy-Aware 3D Graphics Library For Mobile Devices (AIMS2017-6020)
Fabrizio Lamberti (Politecnico di Torino, IT) Gianluca Paravati (Politecnico di Torino, IT) Paolo Montuschi (Politecnico di Torino, IT)
DNN-Based Approach For Recognition Of Human Activity Raw Data In Noncontrolled Environment (AIMS2017-6021)
Hamdi Amroun (University of Paris-Sud/LMISI-CNRS, FR) M'hamed (Ham, FR) Temkit (Mayo Clinic Division of Health Sciences Research, FR) Mehdi Ammi (University of Paris Sud/LMISI-CNRS, FR)

2017 IEEE 1st International Conference on Cognitive Computing (ICCC 2017)

ICCC Research Track

Session 1: Smart Processing (06/27 Tuesday, 8:15-9:15; Iolani Suite4)

Automated Image Quality Assessment For Certificates and Bills (ICCC-7001)
Fei Jiang (Kingdee Research, CN) Liang-Jie Zhang (Kingdee Research, CN) Huan Chen (Kingdee Research, CN)
Internet of Smart Things – IoST - Using Blockchain And CLIPS To Make Things Autonomous (ICCC-7002)
Mayra Samaniego (University of Saskatchewan, CA) Ralph Deters (University of Saskatchewan, US)

Session 2: Cognitive Algorithms (06/27 Tuesday, 9:25-10:25; Iolani Suite4)

A Novel Genetic Algorithm For Bin Packing Problem In jMetal (ICCC-7003)
Fei Luo (East China University, CN) Isaac Scherson (University of California, US) Joel Fuentes (Universidad del Bío-Bío, CL)
Predicting Application Failure In Cloud: A Machine Learning Approach (ICCC-7004)
Tariqul Islam (University of Kentucky, US) Dakshnamoorthy Manivannan (University of Kentucky, US)

ICCC Applications Track

Session 1: Novel Algorithms (06/28 Wednesday, 8:15-9:15; Iolani Suite4)

An Automation Method Of SLA Contract Of Web Apis And Its Platform Based On Blockchain Concept (ICCC-7005)
Hiroki Nakashima (Nanzan University, JP) Mikio Aoyama (Nanzan University, JP)
Social Network Types: An Emergency Social Network Approach (ICCC-7006)
Monika Davidekova (Comenius University, SK) Michal Gregus (Comenius University, SK)
A Privacy Guard Service (ICCC-7007)
Xinfeng Ye (Auckland University, NZ) Fan Wang (Auckland University, NZ)

Session 2: Optimizations (06/28 Wednesday, 9:25-10:25; Iolani Suite4)

Crowdsourcing Workflow Optimization To Internal Worker Crowds (ICCC-7008)
Jinhui Yao (Conduent, Conduent Lab, US)
Cost-Effective Social Network Data Placement And Replication Using Graph-Partitioning (ICCC-7009)
Hourieh Khalajzadeh (Swinburne University of Technology, AU) Dong Yuan (the University of Sydney, AU) John Grundy (Deakin University, AU) Yun Yang (Swinburne University of Technology, AU)
A Method for Dealing With Data Sparsity And Cold-Start Limitations In Service Recommendation Using Personalized Preferences (ICCC-7010)
Kenneth Fletcher (University of Massachusetts Boston, US)

Session 3: Analytic Services (06/28 Wednesday, 13:00-14:00; Iolani Suite4)

AQUASI - An Automated Quality Assurance Application Platform For SMEs In Handcraft Industries (ICCC-7011)
    Harald Kornmayer (DHBW Mannheim, DE) Abdallah Salama (DHBW Mannheim, DE)
Service Pattern Evaluation: Studying Profitability from Perspective of Resource (ICCC-7012)
    Zhiling Luo (Zhejiang University, CN) Ying Li (Zhejiang University, CN) Jianwei Yin (Zhejiang University, CN) Honghao Gao (Zhejiang University, CN)

Session 4: Data Mining (06/28 Wednesday, 14:10-15:10; Iolani Suite4)

A Social Networking Site Portable Profile System For Blind And Visually Impaired Users Based On Cloud And Semantic Web Technologies (ICCC-7013)
    Julian Brinkley (East Carolina University, US) David Hoffman (East Carolina University, US) Nasseh Tabrizi (East Carolina University, US)
Heterogeneous Service Information Mining Based On Parallel Computing (ICCC-7014)
    Lei Yu (Inner Mongolia University, US) Philip S. Yu (University of Illinois at Chicago, US) Shiping Chen (Commonwealth Scientific and Industrial Research Organisation, AU)

Session 5: Data Mining II (06/30 Friday, 8:15-9:15; Iolani Suite6)

Mining Business Process Activities from Email Logs (ICCC-7015)
    Diana Jlailaty (Paris Dauphine University US) Daniela Grigori (Paris Dauphine University, FR) Khalid Belhajjame (Paris Dauphine University, FR)

Cognitive Acoustic Analytics Service for Internet of Things (ICCC-7016)
    Zhaotai Pan (IBM Research China, CN) Yi Ge (IBM Research China, CN) Yu Chen Zhou (IBM Research Chin, CN) Jing Chang Huang (IBM Research China, CN) Yu Ling Zheng (IBM Research China, CN) Ning Zhang (IBM Research China, CN) Xiao Xing Liang (IBM Research China, CN) Peng Gao (IBM Research China, CN)

ICCC Short Paper Track

Session 1: Evaluation and Discovery (06/28 Wednesday, 15:20-16:20; Iolani Suite4)
15 minutes for each paper.

Building Bilingual Algorithm English-Arabic Ontology For Cognitive Applications (ICCC-7017)
    Amany Alnahdi (Kent State University, US) Rania Aboalela (Kent State University, US) Amal Babour (Kent State University, US)
Knowledge Learning For Cognitive Business Conversations (ICCC-7018)
    Lijun Mei (IBM Research – China, CN) Qicheng Li (IBM Research – China, CN) Yipeng Yu (IBM Research – China, CN) Jie Ma (IBM Research – China, CN)
Evaluation Of User Engagement On Social Media To Leverage Active And Passive Communication (ICCC-7019)
    Kimberley Hemmings-Jarrett (Drexel University, SK) Julian Jarrett (Drexel University, US) M Brian Blake (Drexel University, US)
Cognitive Computing In Action To Enhance Invoice Processing With Customized Language Translation (ICCC-7020)
    Ying Li (IBM, US) Chitra Dorai (IBM, US) Muthu Muthiah (IBM, US) Arindam Routh (IBM, US)
A SOA Approach to Improve Performance Of Metal Additive Manufacturing Simulation (ICCC-7021)
    Kenneth Fletcher (University of Massachusetts Boston, US)

2017 IEEE 2nd International Congress on Internet of Things (ICIOT 2017)

ICIOT Research Track

Session 1: Security and Trust (06/27 Tuesday, 8:15-9:15; Iolani Suite 3)

Boot-IoT: A Privacy-Aware Authentication Scheme For Secure Bootstrapping Of Iot Nodes (ICIOT2017-8001)

Mahmud Hossain (The University of Alabama at Birmingham, US) and Ragib Hasan (The University of Alabama at Birmingham, US)

Securing IoT-Based Cyber-Physical Human Systems Against Collaborative Attacks (ICIOT2017-8002)

Sathish A.P. Kumar (Coastal Carolina University, US), Bharat Bhargava (Purdue University, US), Raimundo Macêdo (Federal University of Bahia, Brazil), and Ganapathy Mani (Purdue University, US)

Adaptable Safety And Security In V2X Systems (ICIOT2017-8003)

Miguel Villarreal-Vasquez (Purdue University, US), Bharat Bhargava (Purdue University, US), and Pelin Angin (Purdue University, US)

Session 2: Security and Trust (06/27 Tuesday, 9:25-10:25; Iolani Suite 3)

Trust-IoV: A Trustworthy Forensic Investigation Framework For The Internet of Vehicles (IoV) (ICIOT2017-8004)

Mahmud Hossain (The University of Alabama at Birmingham, US), Ragib Hasan (The University of Alabama at Birmingham, US), and Shams Zawoad (Visa Inc., US)

A Blockchain Based New Secure Multi-Layer Network Model for Internet Of Things (ICIOT2017-8005)

Cheng Li(Kingdee International Software Group Co., Ltd., CN) and Liang-Jie Zhang (Kingdee International Software Group Co., Ltd., CN)

Multiscale Entropy-Based Weighted Hidden Markov Network Security Situation Prediction Model (ICIOT2017-8006)

Wei Liang (Xiamen University of Technology, CN), Zuo Chen (Hunan University, CN), Xiaolong Yan (Hunan University, CN), Xiaodong Zheng (Hunan University, CN), and Ping Zhuo (Hunan University, CN)

Session 3: Systems (06/27 Tuesday, 13:00-14:00; Iolani Suite 3)

IoTbed: A Generic Architecture For Testbed As A Service For Internet Of Things-Based Systems (ICIOT2017-8007)

Mahmud Hossain (The University of Alabama at Birmingham, US), Shahid Noor (The University of Alabama at Birmingham, US), Yasser Karim (The University of Alabama at Birmingham, US), and Ragib Hasan (The University of Alabama at Birmingham, US)

Mobile Cloud Robotics As A Service With OCCIware (ICIOT2017-8008)

Philippe Merle (Inria, France), Christophe Gourdin (Inria, France), and Nathalie Mitton (Inria, France)

Distributed Orchestration In Large-Scale IoT Systems (ICIOT2017-8009)

Emre Yigitoglu (Georgia Tech, US), Ling Liu (Georgia Tech, US), Margaret Looper (GTRI, US), and Calton Pu (Georgia Tech, US)

Session 4: Applications (06/28 Wednesday, 13:00-14:00; Iolani Suite 3)

Ticket-Based Traffic Flow Control At Intersections For Internet Of Vehicles (ICIOT2017-8010)

Li Li (Huawei, CN) and Jiafeng Zhu (Huawei, CN)

A Gamification Framework For Sensor Data Analytics (ICIOT2017-8011)

Alexandra L'Heureux (Western University, CA), Katarina Grolinger (Western University, CA), Wilson A. Higashino (Western University, CA) and Miriam A.M. Capretz (Western University, CA)

SmartHomeML: Towards A Domain-Specific Modeling Language For Creating Smart Home Applications (ICIOT2017-8012)

Atli F. Einarsson (Reykjavk University, Iceland), Patrekur Patreksson (Reykjavk University, Iceland), Mohammad Hamdaqa (Reykjavk University, Iceland), and Abdelwahab Hamou-Lhadj (Concordia University, CA)

An Energy-Aware Service Composition Mechanism In Service-Oriented Wireless Sensor Networks (ICIOT2017-8013)

Deng Zhao (China University of Geosciences, CN), ZhangBing Zhou (China University of Geosciences, CN), Ke Ning (National Enterprise Internet Services Supporting Software Engineering Research Center, CN), Yucong Duan (Hainan University, CN), and Liang-Jie Zhang (National Enterprise Internet Services Supporting Software Engineering Research Center, CN)

ICIOT Applications Track

Session 1: Systems and Services (06/28 Wednesday, 8:15-9:15; Iolani Suite 3)

Feature-Driven Domain Analysis Of Session Layer Protocols Of Internet Of Things (ICIOT2017-8014)

Ömer Köksal (Wageningen University, NL) and Bedir Tekinerdogan (Wageningen University, NL)

Ml-Sla: Multi-Level Service Level Agreements For Highly Flexible Iot Services (ICIOT2017-8015)

Philipp Grubitzsch (TU Dresden, DE), Iris Braun (TU Dresden, DE), Heiko Fichtl, Thomas Springer (TU Dresden, DE), Tenshi Hara (TU Dresden, DE), and Alexander Schill (TU Dresden, DE)

Session 2: Algorithms and Applications (06/28 Wednesday, 9:25-10:25; Iolani Suite 3)

Mtcomm: A Semantic Ontology Based Internet Scale Communication Method Of Manufacturing Services In A Cyber-Physical Manufacturing Cloud (ICIOT2017-8016)

S.M. Nahian Al Sunny (Univeristy of Arkansas, US), Xiaoqing F. Liu (Univeristy of Arkansas, US), and Md Rakib Shahriar (Univeristy of Arkansas, US)

Wi-Fi-Aided Magnetic Field Positioning With Floor Estimation In Indoor Multi-Floor Navigation Services (ICIOT2017-8017)

Kaixu Liu (University of Pavia, IT), Gianmario Motta (University of Pavia, IT), and Juncheng Dong (Harbin Institute of Technology, CN)

ICIOT Short Paper Track

Session 1: IOT Services (06/25 Sunday, 14:40-15:40; Iolani Suite 6)

15 minutes for each paper.

P4sinc - An Execution Policy Framework For Iot Services In The Edge (ICIOT2017-8018)

Phu H. Phung (University of Dayton, US), Hong-Linh Truong, and Divya Teja Yasoju (TU Wien, AT)

Yoroad: A Monitoring Service For Ride Sharing Systems (ICIOT2017-8019)

Fan Kang (Zhejiang University of Technology, CN), Zhiyu Xu (Zhejiang University of Technology, CN), Fan Cheng (Zhejiang University of Technology, CN), Qianting Zhou (Zhejiang University of Technology, CN), Bingqi Liu (Zhejiang University of Technology, CN), Bin Cao (Zhejiang University of Technology, CN), Ting Wang (Zhejiang University of Technology, CN), and Jianping Mei (Zhejiang University of Technology, CN)

Content-Sensitive Data Compression For IoT Streaming Services (ICIOT2017-8020)

Chun-Chi Hsu (National Chengchi University, Taiwan), Yuan-Ting Fang (National Chengchi University, Taiwan), and

Fang Yu (National Chengchi University, Taiwan)

Session 2: Systems (06/29 Thursday, 13:00-14:00; Iolani Suite 3)
15 minutes for each paper.

Resource-Oriented Framework For Representing Pervasive Context (ICIOT2017-8021)
   Philippe Lalanda (UGA, US) and Clément Escoffier (UGA, US)
Rule-Based Situation Inference For Connected Vehicles (ICIOT2017-8022)
   Mari Abe (IBM, US), Gaku Yamamoto (IBM, US), and Tomohiro Miyahira (IBM, US)
A Risk Information Provision System On Bicycle Parking Lots (ICIOT2017-8023)
   Keisuke Yamazaki (Shibaura Institute of Technology, Japan) and Tsuyoshi Nakajima (Shibaura Institute of Technology, Japan)
Mobile Internet Of Things (MIOT) And Its Applications For Smart Environments: A Positional Overview (ICIOT2017-8024)
   Amany Alnahdi (Kent state university, US) and Shih-Hsi Liu (California State University – Fresno, US)

2017 IEEE 1st International Conference on Edge Computing (EDGE 2017)

EDGE Research Track

Session 1: Time in Edge Computing (06/27 Tuesday, 8:15-9:15; Iolani Suite 2)

On Understanding Time, Energy And Cost Performance Of Wimpy Heterogeneous Systems For Edge Computing (EDGE2017-9001)

Dumitrel Loghin (National University of Singapore, SG), Lavanya Ramapantulu (National University of Singapore, SG), and Yong Meng Teo (National University of Singapore, SG)

Priori Estimation Of Computation Times In Fog Networked Robotics (EDGE2017-9002)

Ajay Kattepur (TCS Research & Innovation, IN) Hemant Kumar Rath (TCS Research & Innovation, IN) and Anantha Simha (TCS Research & Innovation, IN)

Fog Computing: Towards Minimizing Delay In The Internet Of Things (EDGE2017-9003)

Ashkan Yousefpour (The University of Texas at Dallas,US), Genya Ishigaki (The University of Texas at Dallas,US), and Jason P. Jue (The University of Texas at Dallas,US)

Session 2: Services (06/27 Tuesday, 09:25-10:25; Iolani Suite 2)

Greening IoT With Fog: A Survey (EDGE2017-9004)

Fatemeh Jalali(IBM Research,US), Safieh Khodadustan(University of Melbourne,AU), Chrispin Gray, Kerry Hinton(University of Melbourne,AU), and Frank Suits (IBM Research,US)

An Approach to QoS-Based Task Distribution In Edge Computing Networks For IoT Applications (EDGE2017-9005)

Yaozhong Song(Arizona State University,US), Stephen S. Yau(Arizona State University,US), Ruozhou Yu(Arizona State University,US), Xiang Zhang(Arizona State University,US), and Guoliang Xue(Arizona State University,US)

Session 3: Edge Computing Resources (06/27 Tuesday, 13:00-14:00; Iolani Suite 2)

MECCAS: Collaborative Storage Algorithm Based On Alternating Direction Method Of Multipliers On Mobile Edge Cloud (EDGE2017-9006)

Guanlin Wu(National University of Defense Technology,CN), Junjie Chen(National University of Defense Technology,CN), Weidong Bao(National University of Defense Technology,CN), Xiaomin Zhu(National University of Defense Technology,CN), Wenhua Xiao(National University of Defense Technology,CN), Ji Wang(National University of Defense Technology,CN), and Ling Liu (Georgia Institute of Technology,CN)

Zenith: Utility-Aware Resource Allocation For Edge Computing (EDGE2017-9007)

Jinlai Xu(University of Pittsburgh,US), Balaji Palanisamy(University of Pittsburgh,US), Heiko Ludwig(IBM Research,US), and Qingyang Wang (Louisiana State University,US)

Designing Distributed Applications Using A Phase-Aware, Reversible System (EDGE2017-9008)

Ruma Paul(Université catholique de Louvain,BE), Jérémie Melchior(Université catholique de Louvain,BE), Peter Van Roy(Université catholique de Louvain,BE), and Vladimir Vlassov(KTH Royal Institute of Technology, Stockholm, SE)

EDGE Applications Track

Session 1: Cloud Services I (06/28 Wednesday, 8:15-9:15; Iolani Suite 2)

SLA-Based Service Selection For Multi-Cloud Environments (EDGE2017-9009)

Ahmed Taha(TU darmstadt,DE), Salman Manzoor(TU darmstadt,DE), and Neeraj Suri(TU darmstadt,DE)

OCCI-Compliant Cloud Configuration Simulation (EDGE2017-9010)

Mehdi Ahmed-Nacer(SAMOVAR, Telecom SudParis,FR), Walid Gaaloul(SAMOVAR, Telecom SudParis,FR and IBM Research-Almaden,US), and Samir Tata (SAMOVAR, Telecom SudParis,FR)

Session 2: Cloud Services II (06/28 Wednesday, 9:25-10:25; Iolani Suite 2)

Bridging The Cloud Trust Gap: Using ORCON Policy To Manage Consumer Trust Between Different Clouds (EDGE2017-9011)

Stephen S. Kirkman (University of Florida CISE Department,US)and Richard Newman (University of Florida CISE Dept,US)

Cloud Migration: Layer Partition And Integration (EDGE2017-9012)

Zhitao Wan (Peking University, CN), Lihua Duan (Peking University, CN), and Ping Wang (National Engineering Research Center for Software Engineering, CN)

Ranking-Based Cloud Service Recommendation (EDGE2017-9013)

Xianrong Zheng (Old Dominion University, US) Center for Cloud Computing Shenzhen Institutes of Advanced Technology (Chinse Academy of Sciences Shenzhen, CN) and Mingyi Zhang (Huawei US R&D Center, US)

Session 3: Clouds - Reliability, Availability, Trust (06/28 Wednesday, 13:00-14:00; Iolani Suite 2)

Security SLA Based Monitoring In Clouds (EDGE2017-9014)

Nesrine Kaaniche (Institute Mines Telecom, FR), Mohamed Mohamed (IBM, US), Maryline Laurent (Institute Mines Telecom, FR), and Heiko Ludwig (IBM, US)

Analyzing Gossip Protocols For Reliable MANET Applications (EDGE2017-9015)

Everaldo Leme (UNICAMP, BR), Naghmeh Ivaki(University of Coimbra, PT), Nuno Laranjeiro (University of Coimbra, PT), and Regina Moraes (UNICAMP, BR)

Comparing Pacemaker With OpenSAF For Availability Management In The Cloud (EDGE2017-9016)

Mehran Khan (Concordia University, CA), Maria Toeroe (Ericsson, SE), and Ferhat Khendek (Concordia University, CA)

Session 4: Resource Management (06/28 Wednesday, 14:10-15:10; Iolani Suite 2)

PRMRAP: A Proactive Virtual Resource Management Framework In Cloud (EDGE2017-9017)

Qizhi Zhang (Shanghai Jiao Tong University , CN), Haopeng Chen (Shanghai Jiao Tong University, CN), and Zhida Yin (Shanghai Jiao Tong University, CN)

Optimizing ICT Equipment Via Resource Allocation In Cloud Systems (EDGE2017-9018)

Shigeto Suzuki (Fujitsu Laboratories Ltd., JP), Hiroyoshi Kodama (Fujitsu Laboratories Ltd., JP), and Hiroyuki Fukuda (Fujitsu Laboratories Ltd., JP)

Semantically Rich, Oblivious Access Control Using ABAC For Secure Cloud Storage (EDGE2017-9019)

Maithilee Joshi(University of Maryland Baltimore County,US), Sudip Mittal (University of Maryland Baltimore County, US), Karuna P. Joshi (University of Maryland Baltimore County,US), and Tim Finin (University of Maryland Baltimore County, US)

Session 5: Data Processing I (06/28 Wednesday, 15:20-16:20; Iolani Suite 2)

TRCID: Optimized Task Recovery In MapReduce Based On Checkpointing Intermediate Data (EDGE2017-9020)

Peng Wang (Inner Mongolia University, CN), Jing Liu (Inner Mongolia University, CN), and Kai Ding (Inner Mongolia University, CN)

On Forecasting Amazon EC2 Spot Prices Using Time-Series Decomposition With Hybrid Look-Backs (EDGE2017-9021)

Mohan Baruwal Chhetri (Swinburne University of Technology, AU), Markus Lumpe (Swinburne University of Technology, AU), Quoc Bao Vo (Swinburne University of Technology, AU), and Ryszard Kowalczyk (Swinburne University of Technology, AU)

Session 6: Data Processing II (06/29 Thursday, 8:15-9:15; Iolani Suite 2)

Quality Of Service Channelling For Latency Sensitive Edge Applications (EDGE2017-9022)
　　Atakan Aral (Vienna University of Technology, AT) and Ivona Brandic (Vienna University of Technology, AT)
GS1 Video: Open Service System For Video Using MPEG 7 And GS1 Standard (EDGE2017-9023)
　　Bongjin Sohn (KAIST, KR), Kiwoong Kwon (KAIST, KR), and Daeyoung Kim (KAIST, KR)
Cloud to Edge: Distributed Deployment Of Process-Aware IoT Applications (EDGE2017-9024)
　　Rakesh Jain (IBM, US) and Samir Tata (IBM, US)

EDGE Short Paper Track

Session 1: Clouds and Services (06/25 Sunday, 13:30-14:30; Iolani Suite 5)
15 minutes for each paper.

An Orchestration Based Cloud Auto-Healing Service Framework (EDGE2017-9025)
　　Xinhui Li (VMware, US), Kai Li (Beijing University of Posts and Telecommunications, CN), Xudong Pang (Beijing University of Posts and Telecommunications, CN), and Yiping Wang (VMware, US)
A Performance Analysis of Openstack Cloud Vs Real System On Hadoop Clusters (EDGE2017-9026)
　　Binod Kumar Adhikari (Jilin University, CN), Wanli Zuo (Jilin University, CN), and Ramesh Maharjan (Tribhuvan University Kathmandu, NP)

Session 2: Network (06/25 Sunday, 14:40-15:40; Iolani Suite 5)
15 minutes for each paper.

Cloud Migration
Evolution Of Uncertain Social Relations In Opportunistic Networks (EDGE2017-9027)
　　Gang Xu (Inner Mongolia University, CN) Ming Zhang (Inner Mongolia University, CN) Hai-He Jin (Inner Mongolia University, CN) and Yan Wang (Inner Mongolia University, CN)
Lightweight Robust Framework For Workload Scheduling In Clouds (EDGE2017-9028)
　　Muhammed Abdulazeez (University of Liverpool, UK), Pawel Garncarek (Wroclaw University, PL), Dariusz R. Kowalski (University of Liverpool, UK), and Prudence W. H. Wong (University of Liverpool, UK)

Session 3: Security (06/25 Sunday, 16:10-17:10; Iolani Suite 5)
15 minutes for each paper.

Low-Cost Smart Refrigerator (EDGE2017-9029)
　　Hsin-Han Wu (National Chung Cheng University, Taiwan) and Yung-Ting Chuang (National Chung Cheng University, Taiwan)
Attack Surface Expansion Using Decoys to Protect Virtualized Infrastructure (EDGE2017-9030)
　　Tulha Al-Salah (Tennessee State University, US), Liang Hong (Tennessee State University, US), and Sachin Shetty (Old Dominion University, US)
Towards An Approach For Trustworthiness Assessment Of Software As A Service (EDGE2017-9031)
　　Nádia Patricia Da Silva Medeiros (University of Coimbra, PT) Naghmeh Ramezani Ivaki (University of Coimbra, PT), Pedro Nunes Da Costa (University of Coimbra, PT), and Marco Paulo Amorim Vieira (University of Coimbra, PT)

Session 4: Edge Solutions I (06/29 Thursday, 9:25-10:25; Iolani Suite 2)

Adaptive Social Network Services: The Practice of 9EMBA.COM (EDGE2017-9032)

Chiao-Yi Cheng (National Chengchi University Taipei, Taiwan), Yao-Hung Lin (National Chengchi University Taipei, Taiwan), and Fang Yu (National Chengchi University Taipei, Taiwan)

Stand-Out Segmentation Access Control For Cloud Outsourced Data (EDGE2017-9033)

Qassim Bani Hani (University Of Bridgeport, US) and Julius P. Ditcher (University of Bridgeport, US)

Session 5: Edge Solutions II (06/29 Thursday, 13:00-14:00; Iolani Suite 2)

15 minutes for each paper.

MVR: An Architecture For Computation Offloading In Mobile Edge Computing (EDGE2017-9034)

Xiaojuan Wei (Beijing University of Posts and Telecommunications, CN) Shangguang Wang (Beijing University of Posts and Telecommunications, CN) Ao Zhou (Beijing University of Posts and Telecommunications, CN) Jinliang X (Beijing University of Posts and Telecommunications, CN), Sen Su (Beijing University of Posts and Telecommunications, CN) Sathish Kumar (Coastal Carolina University, US) and Fangchun Yang (Beijing University of Posts and Telecommunications, CN)

Practical Edge Analytics: Architectural Approach And Use Cases (EDGE2017-9035)

Narendra Anand (Accenture Technology Labs, IE), Anuraag Chintalapally (Accenture Technology Labs, IE), Colin Puri (Accenture Technology Labs, IE), and Teresa Tung (Accenture Technology Labs, IE)

An Edge Computing Platform For The Detection Of Acoustic Events (EDGE2017-9036)

Yanik Ngoko(Qarnot Computing, FR) and Christophe Cérin (Université de Paris 13, FR)

Session 6: Edge Solutions III (06/29 Thursday, 14:10-15:10; Iolani Suite 2)

15 minutes for each paper.

Strategies For Re-Training A Pruned Neural Network In An Edge Computing Paradigm (EDGE2017-9037)

Parag S. Chandakkar (Arizona State University, US), Yikang Li (Arizona State University, US), Pak Lun Kevin Ding (Arizona State University, US), and Baoxin Li (Arizona State University, US)

Evaluating Voice Interaction Pipelines At The Edge (EDGE2017-9038)

Smruthi Sridhar (University of Washington, US) and Matthew E. Tolentino (University of Washington, US)

The Many Faces of End-to-End Encryption And Their Security Analysis (EDGE2017-9039)

Mohamed Nabeel (Qatar Computing Research Institute, QA)