SCF2018
2018 Services Conference Federation

ADVANCE PROGRAM

The 2018 International Conference on Web Services (ICWS 2018)
🌐 www.icws.org

The 2018 International Conference on Services Computing (SCC 2018)
🌐 www.thescc.org

The 2018 International Conference on Cloud Computing (CLOUD 2018)
🌐 www.TheCloudComputing.org

The 2018 International Conference on AI and Mobile Services (AIMS 2018)
🌐 www.theMobileServices.org or www.ai1000.org

The 2018 International Congress on Big Data (BigData Congress 2018)
🌐 www.bigdatacongress.org

The 2018 World Congress on Services (SERVICES 2018)
🌐 www.ServicesCongress.org

The 2018 International Conference on Internet of Things (ICIOT 2018)
🌐 www.iciot.org

The 2018 International Conference on Edge Computing (EDGE 2018)
🌐 www.theEdgeComputing.org

The 2018 International Conference on Cognitive Computing (ICCC 2018)
🌐 www.theCognitiveComputing.org

The 2018 International Conference on Blockchain (ICBC 2018)
🌐 www.blockchain1000.org

June 25 - June 30, 2018, Sheraton Seattle,1400 6th Avenue, Seattle, WA, 98101, United States

SCF 2018 Leadership Team

General Chairs

ICWS 2018	SCC 2018
Prof. Albert Zomaya, The University of Sydney, Australia *Prof. Guoliang Chen, Shenzhen University, China*	*Prof. J. Leon Zhao, City University of Hong Kong, China* *Prof. Keqing He, Wuhan University, China*
CLOUD 2018	**AIMS 2018**
Prof. Chengzhong Xu, Chinese Academy of Science (Shenzhen), China	*Dr. Ali Arsanjani, IBM, USA*
BigData Congress 2018	**SERVICES 2018**
Prof. Shengzhong Feng, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China	*Prof. Paul P. Maglio, University of California, Merced, USA*
ICCC 2018	**EDGE 2018**
Prof. Xuan Wang, Harbin Technology University (Shenzhen), China	*Dr. Ying Huang, Lenovo, China*
ICIOT 2018	**ICBC 2018**
Prof. Zhonghai Wu, Peking University, China	*Prof. Chunxiao Xing, Tsinghua University, China* *Mr. Yong Liu, Zhongguancun Internet Finance Institute, China*

Program Chairs

ICWS 2018	SCC 2018
Prof. Hai Jin, Huazhong University of Science and Technology, China *Prof. Qingyang Wang, Louisiana State University, USA (Vice Chair)*	*Joao Eduardo Ferreira, University of Sao Paulo, Brazil* *George Spanoudakis, City University London, UK* *Prof. Yutao Ma, Wuhan University, China (Vice Chair)*
CLOUD 2018	**AIMS 2018**
Dr. Min Luo, Huawei, USA	*Prof. Marco Aiello, University of Groningen, Netherlands* *Prof. Yujiu Yang, Tsinghua University, China* *Prof. Yuexian Zou, Peking University, China*
BigData Congress 2018	**SERVICES 2018**
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ICCC 2018	**EDGE 2018**
Dr. Jing Xiao, Ping An Group, China *Prof. Zhihong Mao, University of Pittsburgh, USA* *Dr. Toyotaro Suzumura, IBM T.J. Watson Research Center, USA* *Jianzhong Wang, Ping An Group, China (Vice Chair)*	*Prof. Bedir Tekinerdogan, Wageningen University, The Netherlands* *Prof. Mikio Aoyama, Nanzan University, Japan* *Prof. Shijun Liu, Shandong University, China*
ICIOT 2018	**ICBC 2018**
Prof. Dimitrios Georgakopoulos, Swinburne University of Technology, Australia	*Dr. Shiping Chen, CSIRO Data61, Australia* *Prof. Harry Wang, University of Delaware, USA* *Prof. Hanhua Chen, Huazhong University of Science and Technology, China (Vice Chair)*

SCF 2018 General Chairs

Prof. Calton Pu, Georgia Tech, USA
Dr. Wu Chou, Vice President-Artificial Intelligence & Software at Essenlix Corporation, USA

Steering Committee

Calton Pu, Georgia Tech, USA
Liang-Jie Zhang, Kingdee International Software Group CO., Ltd, China (Chair)

Program Overview

June 25, 2018 (Monday) **Services Conference Federation (SCF 2018)** **(ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018,** **EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)**					
7:45-18:00	On-Site Registration (Palace Lounge)				
8:15-18:00	Services Society Body of Knowledge on Services Computing Initiative (Presentation Recording)				
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters				
Room	*Room 1*	*Room 2*	*Room 3*	*Room 4*	*Room 5*
8:45-9:45	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	Social Room	Social Room
9:45-9:55	AM Break (with coffee)				
9:55-10:55	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	Social Room	Social Room
9:55-11:20	AM Break (with refreshments)				
11:20-12:20	Summer School Tutorial 1	Summer School Tutorial 3	Summer School Tutorial 5	Social Room	Social Room
12:20-13:30	PM Break (with coffee)				
13:30-14:30	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	Social Room	Social Room
14:30-14:40	PM Break (with coffee)				
14:40-15:40	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	Social Room	Social Room
15:40-16:10	PM Break (with refreshments)				
16:10-17:10	Summer School Tutorial 2	Summer School Tutorial 4	Summer School Tutorial 6	Social Room	Social Room
17:10-18:00	PM Break				
18:00-21:00	**Services Society Young Scientist Forum (SSYSF)**				

	June 26, 2018 (Tuesday) Services Conference Federation (SCF 2018) (ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018, EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)				
7:45-18:00	On-Site Registration (Palace Lounge)				
8:15-18:00	Body of Knowledge on Services Computing Initiative (Presentation Recording)				
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters				
Room	Room 1	Room 2	Room 3	Room 4	Room 5
7:00-8:30	Chair Breakfast; The Board Room; Invitation Only				
8:45-10:40	Services Conference Federation (SCF 2018) Opening Steering Committee Chair; General Chairs; PC Chairs; Services Innovations Award Ceremony Opening & Keynote Session Chair: TBD Keynote 1: Ali Arsanjani (8x8 Cloud Communications, USA) (Ball Room)				
10:40-10:50	AM Break (with refreshments)				
10:50-12:00	CLOUD Research 1	CLOUD Research 2	ICWS Research 1	ICWS Research 2	ICBC Research 1
12:00-13:15	Lunch (not included)				
13:15-14:30	Services Conference Federation (SCF 2018) Keynote 2: Prof. Mari Ostendorf (University of Washington, USA) Keynote Session Chair: Dr. Wu Chou (Essenlix Corporation, USA) (Ball Room)				
14:30-14:40	PM Break (with coffee)				
14:40-15:50	CLOUD Research 3	CLOUD Research 4	ICWS Research 3	ICWS Research 4	SERVICES Application 1
15:50-16:00	PM Break (with refreshments)				
16:00-16:50	Services Conference Federation (SCF 2018) Keynote Panel 1: Intelligent IoT (Moderator: Tony Shan) (Ball Room)				
16:50-17:00	PM Break				
17:00-17:50	Services Conference Federation (SCF 2018) Keynote Panel 2: (Moderator: Dr. Min Luo) (Ball Room)				

June 27, 2018 (Wednesday) Services Conference Federation (SCF 2018) (ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018, EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)					
7:45-18:00	On-Site Registration (Palace Lounge)				
8:15-18:00 8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters				
Room	Room 1	Room 2	Room 3	Room 4	Room 5
8:15-9:15	CLOUD Research 5	CLOUD Applications 1	ICWS Research 5	ICWS Applications 1	ICWS Applications 3
9:15-9:25	AM Break (with coffee)				
9:25-10:25	CLOUD Research 6	CLOUD Applications 2	ICWS Research 6	ICWS Applications 2	AIMS Research 1
10:25-10:50	AM Break (with refreshments)				
10:50-12:00	Services Conference Federation (SCF 2018) Keynote 3: Dr. Dong Yu (Tencent) Keynote Session Chair: Dr. Wu Chou (Essenlix Corporation, USA) (Ball Room)				
12:00-13:00	Lunch (not included)				
13:00-14:10	Services Conference Federation (SCF 2018) Keynote 4: Jiongjiong Gu (Huawei, USA) Keynote Session Chair: TBD (Ball Room)				
14:10-14:20	PM Break				
14:20-15:20	CLOUD Application 3	CLOUD Applications 4	ICWS Application 4	EDGE Research 1	SCC Research 1
15:20-15:30	PM Break (with refereshments)				
15:30-16:20	Services Conference Federation (SCF 2018) Keynote Panel 3: TBD (Moderator: TBD) (TBD)				
16:20-18:00	PM Break				
18:00-21:30	Services Conference Federation (SCF 2018) Banquet (Ticket Only)				

	June 28, 2018 (Thursday) Services Conference Federation (SCF 2018) (ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018, EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)				
7:45-18:00	On-Site Registration (Palace Lounge)				
8:15-18:00	Body of Knowledge on Services Computing Initiative (Presentation Recording)				
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters				
Room	Room 1	Room 2	Room 3	Room 4	Room 5
8:15-9:15	ICBC Research 2	ICBC Applications 1	Bigdata Research 1	Bigdata Research 2	AIMS Research 2
9:15-9:25	AM Break (with coffee)				
9:25-10:25	Services Conference Federation (SCF 2018) Keynote 5: Dr. Deng Li (Citadel, USA) Keynote Session Chair: Dr. Wu Chou (Essenlix Corporation, USA)				
10:25-10:50	AM Break (with refreshments)				
10:50-12:00	Services Conference Federation (SCF 2018) Keynote 6: Dr. Phil Bernstein (Microsoft, USA) Keynote Session Chair: Prof. Calton Pu (Ball Room)				
12:00-13:00	Lunch (not included)				
13:00-14:00	ICBC Research 3	ICBC Applications 2	Bigdata Research 3	Bigdata Research 4	SCC Research 2
14:00-14:10	PM Break (with coffee)				
14:10-15:10	ICBC Applications 3	AIMS Research 3	Bigdata Applications 1	Bigdata Applications 2	SCC Research 3
15:10-15:20	PM Break (with coffee)				
15:20-16:20	AIMS Research 4	AIMS Application 1	Bigdata Applications 3	ICWS Applications 5	SCC Research 4
16:20-17:00	PM Break (with refreshments)				
17:00-18:00	AIMS Application 2	ICCC Research 1	Bigdata Applications 4	AIMS Short Paper 1	SCC Application 1
18:00-18:30	PM Break				
18:30-20:00	Chair Meeting (Inviation Only)				
20:00-21:30	Steering Committee Meeting (Inviation Only)				

June 29, 2018 Friday Services Conference Federation (SCF 2018) (ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018, EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)					
7:45-18:00	On-Site Registration (Palace Lounge)				
8:15-18:00	Body of Knowledge on Services Computing Initiative (Presentation Recording)				
8:15-18:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters				
Room	Room 1	Room 2	Room 3	Room 4	Room 5
8:15-9:15	EDGE Research 2	SERVICES Research 1	SERVICES Application 2	ICCC Research 2	ICIOT Research 1
9:15-9:25	AM Break (with coffee)				
9:25-10:25	EDGE Application 1	ICIOT Application 1	SERVICES Application 3	ICCC Research 3	ICIOT Research 2
10:25-10:50	AM Break (with refreshments)				
10:50-12:00	ICCC Application 1	ICIOT Application 2	SERVICES Short Paper 1	BIGDATA Short 1	ICIOT Research 3
12:00-13:00	Lunch (not included)				
13:00-14:00	ICCC Short Paper 1	EDGE Application 2	BIGDATA Short 2	BIGDATA Short 3	ICWS Short Paper 1 & ICIOT Short Paper 1
14:00-14:10	PM Break (with coffee)				
14:10-15:20	ICCC Short Paper 2	EDGE Short Paper 1	CLOUD Short 1	ICBC Short Paper 1	ICBC Short Paper 2
15:20-15:30	PM Break (with refereshments)				
15:30-16:30	Services Conference Federation (SCF 2018) Award Session (Best Paper Awards, Best Student Paper Awards) (TBD)				
16:30-19:00	PM Break				
19:00-20:00	SCF 2018 Organizing Committee Meeting (Invitation Only)				

** 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.

	June 30, 2018 Saturday **Services Conference Federation (SCF 2018)** **(ICBC 2018, CLOUD 2018, ICWS 2018, BigData Congress 2018, SCC 2018,** **EDGE 2018, ICCC 2018, ICIOT 2018, AIMS 2018, SERVICES 2018)**					
7:45-12:00	**On-Site Registration (Palace Lounge)**					
8:15-12:00	Body of Knowledge on Services Computing Initiative (Presentation Recording)					
8:15-12:00	Services Society Young Scientist Forum (SSYSF) Worldwide Activities Posters					
Room	Room 1	Room 2	Room 3	Room 4	Room 5	
8:15-11:00	Future Forum on Artificial Intelligence (TBD, Leading Company Site and Conference Site)	Future Forum on Big Data (TBD, Leading Company Site and Conference Site)	Future Forum on Cloud (TBD, Leading Company Site and Conference Site)	Future Forum on Blockchain (TBD, Leading Company Site and Conference Site)	Future Forum on IoT-Edge (TBD, Leading Company Site and Conference Site)	
11:00-12:00	**Services Conference Federation 2019 (SCF 2019) Announcements**					
	Have a great trip home! See you again in 2019!					

About Springer

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ICWS 2018 – The 2018 International Conference on Web Services
Springer LNCS Volume Number: 10966

CLOUD 2018 – The 2018 International Conference on Cloud Computing
Springer LNCS Volume Number: 10967

BIGDATA 2018 – The 2018 International Congress on Big Data
Springer LNCS Volume Number: 10968

SCC 2018 – The 2018 International Conference on Services Computing
Springer LNCS Volume Number: 10969

AIMS 2018 – The 2018 International Conference on AI & Mobile Services
Springer LNCS Volume Number: 10970

ICCC 2018 – The 2018 International Conference on Cognitive Computing
Springer LNCS Volume Number: 10971

ICIOT 2018 – The 2018 International Conference on Internet of Things
Springer LNCS Volume Number: 10972

EDGE 2018 – The 2018 International Conference on Edge Computing
Springer LNCS Volume Number: 10973

ICBC 2018 – The 2018 International Conference on Blockchain
Springer LNCS Volume Number: 10974

SERVICES 2018 – The 2018 World Congress on Services
Springer LNCS Volume Number: 10975

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2018
Services Conference Federation
Keynote Sessions

Keynote 1:
Industry Trends and Practices of Artificial Intelligence and Machine Learning (Tentative) (SERVICES2018-0001)
(06/26 Tuesday, 8:45-10:40 Ball Room)

Keynote Speaker: Ali Arsanjani, VP Artificial Intelligence and Machine Learning, 8x8 Cloud Communications, USA

Abstract: TBD

About the Speaker

Dr. Ali Arsanjani is Vice-president of Artificial Intelligence and Machine Learning at 8x8, the cloud-native, Unified Communications, Collaboration, Contact Center company. He is responsible for a division focused on delivering practical research innovations to infuse AI in the UCaaS and CCaaS space, to create a delightful and proactive customer experience, Enhanced Context-Aware Communications.

Ali is also CTO of Analytics and Machine Learning at Deep Context, a deep learning startup focused on Amalgamation of data for deeper actionable insights. He is an advisor to startups and boards of larger companies.

In his previous role (1998-2018), he was an IBM Distinguished Engineer & CTO for IBM Analytics Hybrid Cloud and Machine Learning responsible for leading services teams in customized machine learning and analytics solutions. He builds teams of teams across multiple geos in large-scale agile solution development His career spans CTO responsibilities for SOA, BPM, Robotic Process Automation, Analytics, Machine Learning and Artificial Intelligence/Cognitive Systems.

He delivering actionable business insights thru' an amalgamation of structured and unstructured data using machine learning and artificial intelligence to augment traditional rule engines, custom/legacy systems.
In past jobs he has been CTO for SOA, BPM, Decision Management, Analytics, Content Management.

Ali Arsanjani has chaired standard bodies such as The Open Group and is responsible for co-leading the SOA Reference Architecture, SOA Maturity Model, and Cloud Computing Architecture standards. He & his team specialize in harvesting, developing best-practices for the microservices SOA and Web Services lifecycle on hundreds of projects WW across multiple industries, leading a community of practice of over 6000 people.

Keynote 2: Conversational AI (SERVICES2018-0002)
(06/26 Tuesday, 13:15-14:30 Ball Room)

Keynote Speaker: Professor Mari Ostendorf, IEEE Fellow, University of Washington
Abstract: Conversational AI is a fast advancing area in artificial intelligence (AI). It has a profound impact to AI research and applications. This talk will focus on recent developments in conversational AI and its

applications, in particular the international competition of building a conversational AI system on Alexa platform.

About the Speaker

Dr. Mari Ostendorf is an IEEE Fellow, an endowed professor of electrical engineering, and associate vice provost for research at University of Washington Seattle. She is an influential figure in conversational AI and the recipient of IEEE James Flanagan Award in 2018. She and her team won the 2017 Amazon Alexa Prize for being the top team in the international competition of building a conversational AI system on Alexa platform.

Keynote 3: State-of-the-art of Speech Recognition Systems (SERVICES2018-0003)
(06/27 Wednesday, 10:50-12:00 Ball Room)

Keynote Speaker: Dong Yu, IEEE Fellow, Tencent

Abstract: In this talk, he will introduce the state-of-the-art of automatic speech recognition (ASR) systems. I will start from a brief description of key applications of, and core components in, speech recognition systems. He will then explain the important indicators of good ASR systems and where we stand today. He will further illustrate some of the recent advances, including end-to-end speech recognition systems and cocktail party problems. Possible future directions will also be discussed.

About the Speaker

Dr. Dong Yu is a distinguished scientist and vice general manager at Tencent AI Lab. He is an IEEE Fellow and an ACM Distinguished Scientist. Prior to joining Tencent in 2017, he was a principal researcher at Microsoft Research. He is well known as the key inventor of the first successful deep learning-based speech recognition system. He has published 2 monographs and 170+ papers and is the inventor/coinventor of 50+ granted and 10+ pending patents. He received IEEE Signal Processing Society 2013 and 2016 best paper award.

Keynote 4: Huawei Cloud Computing Architecture and its Evolution
(SERVICES2018-0004)
(06/27 Wednesday, 13:00-14:00 Ball Room)

Keynote Speaker: Jiongjiong Gu, Chief Architect of Huawei Cloud

Abstract: Cloud computing has been rapidly changing the global ICT industry landscape, while traditional IT architecture could not keep up with the pace of digital transformation, and silos with resources and information have hindered much needed further improvements in ICT efficiency and effectiveness. This keynote will first discuss how Huawei evolved its cloud architecture to provide critical cloud capabilities. Then it will discuss Huawei's unique "3+1 Integration" with resources, data and platform, and also the vertical integration that greatly simplifies the integration complexity of complex cloud software and hardware stacks, on-line implementation, and scenario-based, automated operation and maintenance capabilities. Finally, it will discuss some future directions in R&D, especially the envisioned strategic partnerships to build a win-for-all ecosystem.
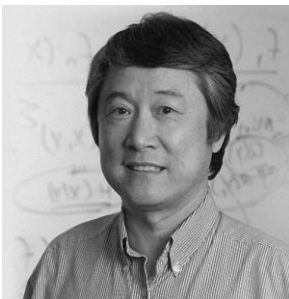
About the Speaker

Mr. Gu led the technology planning and architecture design of Cloud Operating System (FusionShpere) , Public Cloud solution, Private Cloud & Telco NFVI soluion, as well as hyper-converged infrastructure system (FusionCube), supporting the strategic transformation of Huawei's ICT strategy. He directed Huawei's effort in completing the commercial deployment of Huawei Public Cloud, Deusche Telecom OTC, Orange Flexible Engine, Telefonica B2B public cloud, and China Telecom eCloud 3.0, and hundreds of private cloud projects around the globe. He also used to serve as Chief Architect of Huawei Mobile Softswitch and IMS solution and owned over 30 issued patents worldwide.

Keynote 5: Artificial Intelligence for Speech, Natural Language, and Finance (SERVICES2018-0005)
(06/28 Thursday, 9:25-10:25 Ball Room)

Keynote Speaker: Li Deng, IEEE Fellow, Chief AI Officer of Citadel

Abstract: Artificial intelligence is changing the landscape in speech, natural language and finance – leading to various breakthroughs and new applications. This talk will focus on the recent advances of AI in these three key areas, the technical challenges, and future research directions.

About the Speaker

Dr. Li Deng is an IEEE Fellow and Chief AI officer of Citadel - one of the most successful investment firms in the world. Previously, he was Chief AI Scientist of Microsoft and a partner research manager at Microsoft Research. He is the recipient of IEEE SPS Technical Achievement Award in 2015 for his contribution to deep learning in speech and language processing. He received numerous best paper awards, published several hundreds of papers, and authored or coauthored six technical books on deep learning, speech processing, discriminative machine learning, and natural-language processing.

Keynote 6: TBD (SERVICES2018-0006)
(06/28 Thursday, 10:50-12:00 Ball Room)

Keynote Speaker: Phil Bernstein, Distinguished Scientist, Microsoft, USA
Abstract: TBD

About the Speaker

Philip A. Bernstein is a Distinguished Scientist at Microsoft Research. Over the past 40 years, he has been a product architect at Microsoft and Digital Equipment Corp., a professor at Harvard University and Wang Institute of Graduate Studies, and a VP Software at Sequoia Systems. He has published over 150 papers and two books on the theory and implementation of database systems, especially on transaction processing and data integration, and has contributed to a variety of database products. He is a Fellow of the ACM and AAAS, a winner of ACM SIGMOD's E.F. Codd Innovations Award, and a member of the Washington State Academy of Sciences and the National Academy of Engineering. He

received a B.S. degree from Cornell and M.Sc. and Ph.D. from University of Toronto.

2018 Services Conference Federation Keynote Panel Sessions

Keynote Panel 1: Intelligent IoT (SERVICES2018-0007)
(06/26 Tuesday, 16:00-16:50; Ball Room)

Moderator: Tony Shan, Chief Architect at CTS
Panelists (in alphabetic order of first name):

- Brian Gilmore, Chief Technology Evangelist for IoT at Splunk
- Charlie Isaacs, VP & CTO for IoT at Salesforce.com
- David Talby, CTO at Pacific AI
- Deanna Shaw, Director of Design on Watson IoT at IBM
- Roxy Stimpson, VP & CTO at IOT World Labs

Abstract:
Despite a challenging start, Internet of Things (IoT) is now becoming the foundation for all types of strategic transformation and digitization in organizations. Today the real opportunities for building business critical solutions with IoT are starting to move from prototypes to the mainstream. IoT spending will top $1 trillion in 2020. IoT also insects with Big Data Analytics and AI. As practitioners and technologists, what are the technical and business opportunities unlocked by IoT with ML? What are the current barriers and risks that you should be aware of, when you formulate and implement your holistic IoT strategy? And how can we effectively handle the blend of IT and OT for smart IoT?

This panel will drill down to the innovative uses of IoT from both a business and a technology perspective. We'll look into what are the potential future roadblocks to Intelligent IoT adoption. We'll also discuss best practices for integrating data science into IoT.

About the Moderator:

@tonyshan

Tony Shan is a renowned thought leader and innovative visionary with decades of field experience and guru-level expertise on cutting-edge enterprise computing technologies. He leads incubating and nurturing interdisciplinary practice and enablement on emerging technologies like IoT, big data and AI. He drives award-winning innovation and transformation of most complex enterprise systems. He directs and advises the pragmatic lifecycle design of large-scale distributed solutions on diverse platforms in Fortune 500 companies and public sector organizations. He is a regular speaker and organizer in preeminent conferences. As a book author and an editor/editorial advisory board member of IT research journals, he also founded several user groups/forums.

About the Panelists (in alphabetic order of first name):

@BrianMGilmore

Brian Gilmore is Splunk's Chief Technology Evangelist for IoT. A former practitioner in mechanical systems automation, integration, and data analytics, he currently focuses on enabling Splunk's partners and 13,000+ worldwide customers to increase asset performance and availability, improve service levels, reduce operations costs, mitigate security risks, enable compliance, and create

new product and service offerings using insights from the big data generated by mechanical systems and connected devices. His broader technology interests include machine learning, artificial intelligence, and natural language processing.

@charlieisaacs

Charlie Isaacs has a track record of R&D leadership, starting with GTE (Verizon) where he served as VP of Engineering. Following GTE, he held R&D leadership positions at Answer Systems (acquired by Computer Associates), Broad Daylight (sold to Primus Knowledge, then ATG and then Oracle), and CTO at Kana Software, Inc. Prior to joining Salesforce in 2012 Charlie spent 2 years in the Alcatel-Lucent/Genesys Global Innovations Group. Charlie is currently VP and CTO for Customer Connection and his primary role is to incubate IoT projects for Salesforce Customers; he evangelizes and speaks worldwide about IoT and Customer Service. Mr. Isaacs holds a B.S. degree in Electrical Engineering from the University of California at Santa Barbara and an MBA from California Lutheran University.

@davidtalby

David Talby is a chief technology officer at Pacific AI, helping fast-growing companies apply big data and data science techniques to solve real-world problems in healthcare, life science, and related fields. David has extensive experience in building and operating web-scale data science and business platforms, as well as building world-class, Agile, distributed teams. Previously, he was with Microsoft's Bing Group, where he led business operations for Bing Shopping in the US and Europe, and worked at Amazon both in Seattle and the UK, where he built and ran distributed teams that helped scale Amazon's financial systems. David holds a PhD in computer science and master's degrees in both computer science and business administration.

@DeannaMShaw

Deanna Shaw builds and leads innovative and ground breaking Design teams for the Watson Internet of Things Business Unit at IBM. Currently she is working on leading such initiatives as Digital Twin, Intelligent Buildings, and IoT for Manufacturing. She is also the content leader for IBM Watson IoT Munich HQ. In the past Deanna has created, launched and matured programs for IBM focused on improving business at the executive level. As a Senior Design Director, she has led large scale design for the storage portfolio. Her role is one of extensive client championship.

@roxystimpson

Roxy Stimpson is a VP & CTO at IOT World Labs, a product, and integration company that provides a platform to enable enterprises to transform their business through data and IoT. She has 20+ years of experience in software development and design, specialized in Enterprise Applications and Systems Integration including ERP, Logistics, Warehouse Integration, Continuous Process Improvement, End-to-end Software Development to Operation, and R&D. Prior to IOT World Labs, Roxy participated in creating company vision and strategy; planning and building company technology and product roadmap with C-level executives and business stakeholders in various capacities, namely Enterprise Architect and Chief Technology Officer. Roxy enables enterprises to turn their data into a competitive advantage.

Keynote Panel 2: Services Rethinking – How to Effectively Help Digital Transformation with Evolving Services Technologies
(SERVICES2018-0008)
(06/26 Tuesday, 17:00-17:50; Ball Room)

Moderator: Dr. Min Luo, Huawei, USA
Panelists:
- Min Luo
- TBD

Abstract: Service-orientation can bring agile business capabilities and sustainable cost savings for enterprises. However how to effectively utilize such technology for drastically different business environments, while making services open but adaptable to meet the ever changing business requirements remains a challenge. The evolution of service-oriented architecture to today's microservices-based API-economy, has helped to alleviate some problems in certain aspects while deteriorating other important factors.

In this panel, we will review some fundamental concepts of SOA, what it was intended, how it was applied in reality, why many initiatives succeeded or failed, what micorservices is supposed to enhance SOA with more agility and scalability, and the reason that microservices alone won't bring the ultimate benefits. Some future directions will also be discussed.

About the Panelists (in alphabetic order of first name):

Dr. **Min Luo** has over 24+ years of successful professional career, including over 20 years of management position at Huawei, IBM Software Group and Global Services, and two of the Fortune 500 transportation companies. He is an established expert in the field of next negation software defined networking (SDN), enterprise architecture and information systems, whole life cycle software application and product development, business intelligence, and business process optimization. He is also a pioneer and one of the recognized leading experts and educators in Service-oriented architecture (SOA), Model/business-driven architecture and development (MDA-D), business analytics and intelligence, and applied operations research with modern heuristics. He has served as SDN Area Editor for Journal of Computer Networks, Elsevier since May 2015, and editor/guest editor for several other renown publications in service and cloud computing, business process management. He also served as program committee members, track chairs for many international conferences.

TBD

Keynote Panel 3: TBD (SERVICES2018-0009)
(06/27 Wednesday, 15:30-16:20; Ball Room)

Moderator: TBD
Panelists:
- TBD

About the Panelists (in alphabetic order of first name):
TBD

2018
Services Conference Federation Tutorials

Tutorial 1: Blockchain: Basics, Smart Contracts, and Challenges
(SERVICES2018-0010)
(06/25 Monday, 8:45-12:20 Room 1)

Abstract: Blockchain is an emerging, disruptive, and transformational technology of incredible growth and potential, and is poised to have tremendous impact and benefits across many industries including banking, financial, healthcare, manufacturing, insurance, logistics, land registry, and others. Recently, blockchain has gained significant attention among academia and the scientific research community. In this tutorial, we present an introduction to the underlying design principles, protocols, and architecture of blockhain. We also describe blockchain types, powerful features, and potential application domains. The tutorial will show how to program the blockchain with Ethereum smart contracts using Solidity language and Remix IDE. We demonstrate how blockchain using smart contracts can be the preferred answer to many pressing research problems related to IoT management, identity, data monetization, and security. The tutorial will also cover advanced topics related to block validation and construction, forking, Merkle trees, and consensus algorithms, and generating addresses and keys. Moreover, the tutorial will highlight major research challenges for blockchain, and will discuss newly emerging blockchain types as those of IOTA, Tangle, and Algorand.

Khaled Salah is a full professor and has extensive background and expertise in blockchain, cloud computing, IoT, cybersecurity, computer networks, and web application development. He has over 170 publications and 2 US patents. He is an active and engaged speaker and has given a number of keynote speeches, invited talks, and tutorials on topics related to Blockchain, IoT, cloud computing, embedded systems, and Cybersecurity. Currently, he is supervising a number of research projects on "Blockchain and IoT", and also is teaching undergraduate and graduate courses in the areas IoT, Blockchain, Cloud, and Cybersecurity. A recent news story, dated Dec. 27, 2017, was published by KU on his teaching and research activities with regards to blockchain and IoT.

Tutorial 2: IBM Cloud for Research and Developlement (SERVICES2018-0011)
(06/25 Monday, 13:30-17:10 Room 1)

Abstract: IBM's cloud offers platform as a service (PaaS), infrastructure as a service (IaaS) and includes a catalog of services that can be integrated with PaaS and IaaS to build solutions. This multi-tiered system makes it convenient for Researchers and Developers (R&D) to tailor the platform to their research agenda – building and testing low level, new cloud services; developing models and algorithms, and developing services for external consumption. Each of these activities requires working with different cloud capabilities, and integrating various services. Each of these activities may also require private services within the IBM Intranet, as well as tools, existing data, systems, and processes. In addition, working in the cloud also requires the same level of security and compliance required in any IBM internal environment. The solution which we have developed over the past four years has focused on integration of these diverse platform resources, automation of security and compliance, a simplified portal to accomplish virtual machine and 'bare metal machine' set up and management, usage metering, service access, data placement, and network / firewall setup and management. The techniques we have used in these cloud front end system support methods has allowed the R&D teams to focus on their primary research work, with little or no time devoted to the underlying cloud entities in the IaaS or PaaS.

About the Speakers

Lorraine M. Herger is the Director of Research Integrated Solutions and CIO of IBM Research, a worldwide organization with 12 locations; a Master Inventor, with over 50 patents, 25 publications and a Senior Technical Staff Member. Lorraine received the 2017 CIO 100 award for innovative use of technology to drive business for IBM Research by creating a cloud environment where IBM Research can host assets for external partners. Lorraine is the chief technical architect of THINKLab, an innovative environment for immersive experiences and led the team in the design, and installation of each of IBM's 13 THINKLabs. Lorraine and her team currently manage the Cloud for the IBM Research Division.

Carlos Fonseca is an Executive IT Architect, Software Engineer, and a people manager. With over 20 years of software development, and architecture experience, Carlos has provided many contributions to IBM technologies, solutions, and software products.

Currently, Carlos manages a high-performance team of software engineers, IT specialist and architects providing innovated Information Technology solutions for IBM. These solutions range from application development, IBM cloud application and infrastructure architecture and design, mobile design and development, wireless technology solutions, emerging client adoption solutions, VPN and secured access solutions. Carlos provides technical leadership in many of the team's contributions including leading several key cloud infrastructure architecture and deployment projects in IBM Research.

Mercy Bodarky is a Security focal for the Integrated Solutions Team of IBM Research. In this role, Mercy works across several disciplines including IT Security, Cloud, and Privacy, IT & business operations and collaboration. She manages several global security programs for all services to the division. Mercy is an active member of the IRI, ACM and SWE. She also serves as the webmaster for the SWE, NY City chapter. In her spare time develops outreach projects to educate students of all ages to STEM careers.

Tutorial 3: Bioinformatics Virtual Organizations Constrction Framework
(SERVICES2018-0012)
(06/25 Monday, 8:45-12:20 Room 2)

Abstract: Systems Bioinformatics is a relatively new approach, which lies in the intersection of systems biology and classical bioinformatics. It focuses on integrating information across different levels using a bottom-up approach as in systems biology with a data-driven top-down approach as in bioinformatics. A key approach in Bioinformatics Systems is the construction of multiple networks representing and their integration in a layered network that exchanges information within and between layers. Given the bulk of biochemical entities that go under various names and interact on different levels, the relevance of fully annotated data Grid services in bioinformatics, especially systems biology, is enormous. Until now, ambiguities in synonyms and interactions had to be detected by human intelligence; – meaning full-fledged systems biology services won't be successfully automated without proper categorization. Since DB-Annotator draws on a common set of agreed ontologies (eg gene ontology) for the annotation of both data services and data sets or subsets, it can provide the semantic glue on all levels required.   a precondition for data exchange and manipulation within the Grid network of virtual organizations (VO). Thus raise the needs to dynamic collaboration and rapid distributed solution. Hyper Dynamic Virtual Organizations Constriction Framework (HDVOCF) is theoretical description framework to create Dynamic Virtual Organizations (DVO) at the knowledge level. DVOF has been utilized

CommonKADS knowledge engineering methodology to model DVO. A new structural approach (hyper-management) for supporting the modeling of a collaborative network by utilizing CommonKADS the knowledge of the problem can be structured in three stages context level, concept level and artifact levels; DVOF has been identified three models namely 1) "New Federated Collaborative Networked Organization Model (FCNOM)", 2) "Virtual Collaboration Knowledge Model (VCKM) and 3) "Collaboration Network Organization Grid-Cloud Convergence Architecture (CNOGCA) Based on Open Grid Services Architecture (OGSA). Each model is composed by an ontology that describes each of the entities covered by the model and where applicable a set of design patterns.

About the Speakers

Dr. **Morcous Massoud** Yassa received his Master degree in Computer Science from Faculty of Computers and Information, Cairo University in 2008 and his Ph.D. in Computer Science from the same faculty in 2014. He has served as an invited member of the technical program committee of several international conferences. He has been on the technical program committee of different IEEE conferences. He acts as a reviewer for the international conferences and journals. His research has been published in various international journals and conferences. He has published numerous scientific articles in an Arabic language magazine, "AlAhram". He has conducted tutorial sessions in prominent conferences such as IEEE BIBM 2014 - UK, IEEE COMPSAC 2014 - Sweden, IEEE Healcare2013 - Portugal, and IEEE "JEC-ECC 2013 – Cairo, KKIO 2015 – Poland, ICHI 2015 – USA. Dr. Morcous main research interests lie with the knowledge modeling, sharing and reuse, intelligent information retrieval, Software Engineering, Software requirements engineering, Service Oriented Architecture (SOA), Virtual Organizations, Grid & Cloud Computing and Green Computing. He is a member of Scientific Research Group in Egypt its main research interest in a particular aspect of computational intelligent, intelligent environment, network security, machine learning, bioinformatics and biomedical and related disciplines. He has served as an invited member of the technical program committee of several IEEE conferences. He acts as a reviewer for the international conferences and journals. He has published numerous scientific articles in Arabic language: magazine, AlAhram URL: http://aitmag.ahram.org.eg/OuterWriter/4063.aspx.

Tutorial 4: A Live System to Track each Product Unit in Global Trade using Blockchain (SERVICES2018-0013)
(06/25 Monday, 13:30-15:10 Room 2)

Abstract:

About the Speakers
Jack Duan,

Tutorial 5: TBD (SERVICES2018-0014)
(06/25 Monday, 8:45-12:20 Tapa Ballroom3)

Abstract: TBD

About the Speakers
TBD

Tutorial 6: TBD (SERVICES2018-0015)
(06/25 Monday, 8:45-12:20 Tapa Ballroom3)

Abstract: TBD

About the Speakers
TBD

2018 International Conference on Web Services (ICWS 2018)

ICWS Research Track

Session 1: Service Modeling (06/26 Tuesday, 10:50-12:00; Room 3)
20 minutes for each paper.

Business Objects -A New Business Process Modeling Approach (ICWS2018-1001)
Xiaohui Shi (Sun Yat-sen University, CN), Jia Lin (Sun Yat-sen University, CN), Gaojia Hu (Sun Yat-sen University, CN), Yang Yu (Sun Yat-sen University, CN);

Service Bridge: Trans-boundary Influence Evaluation Method of Internet (ICWS2018-1002)
Xiao Xue (Nanjing University of Science & Technology, CN), Shufang Wang(Henan Polytechnic University, CN),Jiajia Gao (Henan Polytechnic University, CN)

Modeling Time-Critical Processes with WED-flow (ICWS2018-1003)
Rodrigo Alves Lima (Georgia Institute of Technology, US), Calton Pu (Georgia Institute of Technology, US), Bruno Padilha (University of São Paulo, BR), Pedro Takecian (University of São Paulo, BR), Leonardo Kamaura (University of São Paulo, BR), João Ferreira (University of São Paulo, BR)

Session 2: Service Security and Privacy (06/26 Tuesday, 10:50-12:00; Room 4)
20 minutes for each paper.

TProv: Towards a Trusted Provenance-aware Service based on Trusted Computing (ICWS2018-1004)
Wu Luo (Peking University, CN), Anbang Ruan (Octa Innovationsm, BE), Qingni Shen (Peking University, CN), Zhonghai Wu (Peking University, CN)

A Reflective Covert Channel Attack Anchored on Trusted Web Services (ICWS2018-1005)
Feng Zhu (Nanjing University of Posts and Telecommunications, CN), Youngtae Yun (The Attached Institute of ETRI, Daejeon, KR), Jinpeng Wei (University of North Carolina at Charlotte, US), Brent Kang (Korea Advanced Institute of Science and Technology, KR), Yongzhi Wang (Park University, US), Daehyeok Kim (Carnegie Mellon University, US), Peng Li (Nanjing University of Posts and Telecommunications, CN), He Xu (Nanjing University of Posts and Telecommunications, CN)

Privacy-Preserving Homomorphic MACs with Efficient Verification (ICWS2018-1006)
Shimin Li (Chinese Academy of Sciences, CN), Xin Wang (Chinese Academy of Sciences, CN), Rui Zhang (Chinese Academy of Sciences, CN)

Session 3: Service Profiling (06/26 Tuesday, 14:40-15:50; Room 3)
20 minutes for each paper.

Ontology-based Personalized Telehealth Scheme in Cloud Computing (ICWS2018-1007)
Keke Gai (Beijing Institute of Technology, CN), Lei Zou (Peking University, CN), Liehuang Zhu (Beijing Institute of Technology, CN)

Security Analysis of Container Images using Cloud Analytics Framework (ICWS2018-1008)
Byungchul Tak (Kyungpook National University, KR), Hyekyung Kim (Kyungpook National University, KR), Sahil Suneja (IBM TJ Watson Research Cente, US), Canturk Isci (IBM TJ Watson Research Cente, US), Prabhakar Kudva (IBM TJ Watson Research Cente, US)

Coupled Linear and Deep Nonlinear Method for Meetup Service Recommendation (ICWS2018-1009)
Shuai Zhang (University of New South Wales, AU), Lina Yao (University of New South Wales, AU), Xiaodong Ning

(University of New South Wales, AU), Chaoran Huang (University of New South Wales, AU), Xiwei Xu (Data61.CSIRO, AU), Shiyan Ou (Nanjing University, CN)

Session 4: Service Architecture (06/26 Tuesday, 14:40-15:50; Room 4)
20 minutes for each paper.

A Decentralized Sharding Service Network Framework with Scalablity (ICWS2018-1010)

Shubin Cai (Shenzhen University, CN), Ningsheng Yang (Shenzhen University, CN), Zhong Ming (Shenzhen University, CN)

An Open Access Platform for Analyzing Artistic Style Using Semantic Workflows (ICWS2018-1011)

Ricky Sethi (Fitchburg State University, US), Catherine Buell (Fitchburg State University, US), William Seeley (Boston College, US), Swaroop Krothapalli (Boston College, US)

Accelerating Training for Distributed Deep Neural Networks in MapReduce (ICWS2018-1012)

Jie Xu(Beijing University of Posts and Telecommunications, CN),Jingyu Wang(Beijing University of Posts and Telecommunications, CN),Qi Qi (Beijing University of Posts and Telecommunications, CN),Haifeng Sun(Beijing University of Posts and Telecommunications, CN),Jianxin Liao(Beijing University of Posts and Telecommunications, CN)

Session 5: QoS of Services (06/27 Wednesday, 8:15-9:15; Room 3)
20 minutes for each paper.

Large-Scale QoS-Aware Service Composition Integrating Chained Dynamic Programming and Hybrid Pruning (ICWS2018-1013)

Shiliang Fan (Nanjing University, CN), Kaiyu Peng (Nanjing University, CN), Yubin Yang (Nanjing University, CN)

Supervised Web Service Composition Integrating Multi-Objective QoS Optimization and Service Quantity Minimization (ICWS2018-1014)

Shiliang Fan (Nanjing University, CN), Feng Ding (Science and Technology on Information System Engineering Laboratory, CN), Chenghao Guo (Science and Technology on Information System Engineering Laboratory, CN), Yubin Yang (Nanjing University, CN)

Session 6: Service Optimization (06/27 Wednesday, 9:25-10:25; Room 3)
20 minutes for each paper.

Selection Optimization of Bloom Filter-based Index Services in Ubiquitous Embedded Systems (ICWS2018-1015)

Zhu Wang (Xingtang Telecommunications Technology Co., Ltd., CN), Chenxi Luo (Institute of Software Chinese Academy of Sciences, CN), Tiejian Luo (University of Chinese Academy of Sciences, CN)

Detection of Damage and Failure Events of Road Infrastructure Using Social Media (ICWS2018-1016)

Aibek Musaev (University of Alabama, US), Zhe Jiang (University of Alabama, US), Pezhman Sheinidashtegol (University of Alabama, US), Mirbek Dzhumaliev (University of Alabama, US)

ICWS Applications Track

Session 1: Social Services (06/27 Wednesday, 8:15-9:15; Room 4)
20 minutes for each paper.

Social Information Services: A Service Oriented Analysis of Social Media (ICWS2018-1017)

Kashif Ali (RMIT University, AU), Margaret Hamilton (RMIT University, AU), Charles Thevathayan (RMIT University, AU), Xiuzhen Zhang (RMIT University, AU)

A RESTful Web Service for Non-Overalpping Community Quality Assessment (ICWS2018-1018)

Yuhong Feng (Shenzhen University, CN), Song She (Shenzhen University, CN), Yuanshi Wu (Shenzhen University, CN), Mingyang Zhou (Shenzhen University, CN), Zhong Ming (Shenzhen University, CN), Haoming Zhong (WeBank, CN)

Classifying Quality Centrality for Source Localization in Social Networks (ICWS2018-1019)
Yao Yao (Tsinghua University, CN), Xi Xiao (Tsinghua University, CN), Chengping Zhang (Tsinghua University, CN), Shutao Xia (Tsinghua University, CN)

Session 2: Services Recommendation (06/27 Wednesday, 9:25-10:25; Room 4)
20 minutes for each paper.

BIS: Bidirectional Item Similarity for Next-Item Recommendation (ICWS2018-1020)
Zijie Zeng (Shenzhen University, CN), Weike Pan (Shenzhen University, CN), Zhong Ming (Shenzhen University, CN)

RLT: Residual-Loop Training in Collaborative Filtering for Combining Factorization and Global-Local Neighborhood (ICWS2018-1021)
Lei Li (Shenzhen University, CN; Hong Kong Baptist University, CN), Weike Pan (Shenzhen University, CN), Li Chen (Hong Kong Baptist University, CN), Zhong Ming (Shenzhen University, CN)

MF-DMPC: Matrix Factorization with Dual Multiclass Preference Context for Rating Prediction (ICWS2018-1022)
Jing Lin (Shenzhen University, CN), Weike Pan (Shenzhen University, CN), Zhong Ming (Shenzhen University, CN)

Session 3: Security Application (06/27 Wednesday, 8:15-9:15; Room 5)
20 minutes for each paper.

A Privacy-preserving Semantic Annotation Framework Using Online Social Media (ICWS2018-1023)
Shuo Wang (Monash University, Australia) Richard Sinnott (University of Melbourne, AU), Surya Nepal (CSIRO, AU)

Identification for Strategically Malicious Participants (ICWS2018-1024)
Xinxin Fan (Chinese Academy of Sciences, CN), Jingping Bi (Chinese Academy of Sciences, CN)

Trustworthiness and Untrustworthiness Inference with Group Assignment (ICWS2018-1025)
Xinxin Fan (Chinese Academy of Sciences, CN), Danyang He (Dalian University of Technology, CN), Jingping Bi(Chinese Academy of Sciences, CN)

Session 4: Services Platform and Architecture Application (06/27 Wednesday, 14:20-15:20; Room 3)
20 minutes for each paper.

WED-SQL: an intermediate declarative language for PAIS execution (ICWS2018-1026)
Bruno Padilha (University of São Paulo, BR), Rafael Liberato Roberto (Federal University of Technology, BR), André Luis Schwerz (Federal University of Technology, BR), Calton Pu (Georgia Institute of Technology, US), João Eduardo Ferreira (University of São Paulo, BR)

PARMTRD: Parallel Association Rules Based Multiple-Topic Relationships Detection (ICWS2018-1027)
Xin Liu (China University of Petroleum, CN), Xiaomiao Zhang (China University of Petroleum, CN), Yiwen Wang (China University Of Petroleum), Jiehan Zhou (Oulu Univetsity, Finland), Sumi Helai (Lancaster University, UK), Zhidong Xu (Beijing Normal University, CN), Weishan Zhang (China University Of Petroleum, CN), Shuai Cao (China University Of Petroleum, CN)

Min-Forest: Fast Reachability Indexing Approach for Large-Scale Graphs on Spark Platform (ICWS2018-1028)
Liu Yang (Central South University, CN), Tongyong Liu (Central South University, CN), Zhigang Hu (Central South University, CN), Zhifang Liao (Central South University, CN), Jun Long (Central South University, CN)

Session 5: Emerging Services Applications (06/28 Thursday, 15:20-16:20; Room 4)
20 minutes for each paper.

Towards an IoT-BPM hybrid architecture for smart incident management under human resource constraints (ICWS2018-1029)
Abir Ismaili-Alaoui (Universit éde Lorraine, FR and ENSIAS, Rabat, MA), Karim Baina (Mohammed V University, Rabat, MA), Khalid Benali (Universit éde Lorraine, FR), Jamal Baina (Angel Assistance, FR)

Design of a Secure Shield for Internet and Web-based Services using Software Reflection (ICWS2018-1030)
Ana R. Cavalli (Institut MINES-TELECOM/TELECOM SudParis, Evry, FR), Antonio M. Ortiz (Decilogy, S.L., FR), Georges Ouffou é(LRI, Univ. Paris-Sud, UMR 8623 CNRS, Universit\'{e} Paris-Saclay, FR), Cesar A. Sanchez (Decilogy, S.L, FR), Fatiha Za ïdi LRI, Univ. Paris-Sud, UMR 8623 CNRS, Universit\'{e} Paris-Saclay, FR)

Big Social Data as a Service: A Service Composition Framework for Social Information Service Analysis (ICWS2018-1031)
Kashif Ali (RMIT University, AU), Margaret Hamilton (RMIT University, AU), Charles Thevathayan (RMIT University, AU), Xiuzhen Zhang (RMIT University, AU)

ICWS Short Paper Track

Session 1: **(06/29 Friday, 13:00-14:00; Room 5)**
15 minutes for each paper.

Efficient Multi-User Service Selection Based on the Transportation Problem (ICWS2018-1032)
Adrian Satja Kurdija (University of Zagreb, HR), Marin Silic, Goran Delac (University of Zagreb, HR), Klemo Vladimir (University of Zagreb, HR), Sinisa Srbljic (University of Zagreb, HR)

2018 International Conference on Cloud Computing (CLOUD 2018)

CLOUD Research Track

Session 1: Cloud Schedule (06/26 Tuesday, 10:50-12:00; Room 1)
20 minutes for each paper.

A Vector-Scheduling Approach for Running Many-Task Applications in the Cloud (CLOUD2018-2001)
Brian Peterson (Louisiana State University, US), Yalda Fazlalizadeh (Louisiana State University, US), Gerald Baumgartner (Louisiana State University, US), Qingyang Wang (Louisiana State University, US)

Mitigating Multi-Tenant Interference in Continuous Mobile Offloading (CLOUD2018-2002)
Zhou Fang (University of California San Diego, US), Mulong Luo (Cornell University, US), Tong Yu (Carnegie Mellon University, US), Ole Mengshoel (Carnegie Mellon University, US), Mani Srivastava (University of California, Los Angeles, US), Rajesh Gupta (University of California San Diego, US)

Dynamic Selecting Approach for Multi-cloud Providers (CLOUD2018-2003)
Juliana Carvalho (Federal University of Ceará, BR), Dario Vieira (EFREI-Paris, FR), Fernando Trinta (Federal University of Ceará, BR)

Session 2: Cloud Data Storage (06/26 Tuesday, 10:50-12:00; Room 2)
20 minutes for each paper.

Teleporting Failed Writes with Cache Augmented Data Stores (CLOUD2018-2004)
Shahram Ghandeharizadeh (University of Southern California, US), Haoyu Huang (University of Southern California, US), Hieu Nguyen (University of Southern California, US)

2-Hop Eclipse: A Fast Algorithm for Bandwidth-Efficient Data Center Switching (CLOUD2018-2005)
Liang Liu (Georgia Institute of Technology, US), Long Gong (Georgia Institute of Technology, US), Sen Yang (Georgia Institute of Technology, US), Jun Xu (Georgia Institute of Technology, US), Lance Fortnow (Georgia Institute of Technology, US)

A Prediction Approach to Define Checkpoint Intervals in Spot Instances (CLOUD2018-2006)
Pergentino Araujo (University of Brasilia, Brazil), Donald Pianto (University of Brasilia, BR), Celia Ralha (University of Brasilia, BR)

Session 3: Cloud Container (06/26 Tuesday, 14:40-15:50; Room 1)
20 minutes for each paper.

Cloud Service Brokerage and Service Arbitrage for Container-Based Cloud Services (CLOUD2018-2007)
Ruediger Schulze (IBM Germany Research & Development GmbH, DE)

Fault Injection and Detection for Artificial Intelligence Applications in Container-based Clouds (CLOUD2018-2008)
Kejiang Ye (Chinese Academy of Sciences, CN), Yangyang Liu (Xidian University, CN), Guoyao Xu (Chinese Academy of Sciences, CN), Cheng-Zhong Xu (Chinese Academy of Sciences, CN)

Container-VM-PM architecture： A novel architecture for Docker container placement (CLOUD2018-2009)
Rong Zhang (Chinese Academy of Sciences, CN), A-min Zhong (Xidian University, CN), Bo Dong (Chinese Academy of

Sciences, CN), Feng Tian (Chinese Academy of Sciences, CN), Rui Li (Chinese Academy of Sciences, CN)

Session 4: Cloud Resource Management (06/26 Tuesday, 14:40-15:50; Room 2)
20 minutes for each paper.

Renewable Energy Curtailment via Incentivized Inter-Datacenter Workload Migration (CLOUD2018-2010)
Ahmed Abada (Carleton University, CA), Marc St-Hilaire (Carleton University, CA)

Pricing Cloud Resource based on Reinforcement Learning in the Competing Environment (CLOUD2018-2011)
Bing Shi (Wuhan University of Technology, CN), Hangxing Zhu (Wuhan University of Technology, CN), Han Yuan (Wuhan University of Technology, CN), Rongjian Shi (Wuhan University of Technology, CN), Jinwen Wang (Wuhan University of Technology, CN)

An Effective Offloading Trade-off to Economize Energy and Performance in Edge Computing (CLOUD2018-2012)
Yuting Cao (Shanghai Jiao Tong University, CN), Haopeng Chen (Shanghai Jiao Tong University, CN), Zihao Zhao (Shanghai Jiao Tong University, CN)

Session 5: Cloud Management (06/27 Wednesday, 8:15-9:15; Room 1)
20 minutes for each paper.

Implementation and comparative evaluation of an outsourcing approach to real-time network services in commodity hosted environments (CLOUD2018-2013)
Oscar Garcia (University of Tsukuba, JP), Yasushi Shinjo (University of Tsukuba, JP), Calton Pu (Georgia Institute of Technology, US)

Identity and Access Management for Cloud Services used by the Payment Card Industry (CLOUD2018-2014)
Ruediger Schulze (IBM Germany Research & Development GmbH, DE)

Session 6: Cloud and Edge (06/27 Wednesday, 9:25-10:25; Room 1)
20 minutes for each paper.

Network Anomaly Detection and Identification based on Deep Learning Methods (CLOUD2018-2015)
Mingyi Zhu (Chinese Academy of Sciences, CN), Kejiang Ye (Chinese Academy of Sciences, CN), Cheng-Zhong Xu (Chinese Academy of Sciences, CN)

A Feedback Prediction Model for Resource Usage and Offloading Time in Edge Computing (CLOUD2018-2016)
Menghan Zheng (Chinese Academy of Sciences, CN), Yubin Zhao (Chinese Academy of Sciences, CN), Xi Zhang (Chinese Academy of Sciences, CN), Cheng-Zhong Xu (Chinese Academy of Sciences, CN), Xiaofan Li (Shenzhen Institute of Radio Testing & Tech, CN)

CLOUD Applications Track

Session 1: Cloud Service System (06/27 Wednesday, 8:15-9:15; Room 2)
20 minutes for each paper.

cuCloud: Volunteer Computing as a Service (VCaaS) System (CLOUD2018-2017)
Tessema Mengistu (Southern Illinois University Carbondale, US), Abdulrahman Alahmadi (Southern Illinois University Carbondale, US), Yousef Alsenani (Southern Illinois University Carbondale, US), Dunren Che (Southern Illinois University Carbondale, US)

CloudsStorm: An Application-driven Framework to Enhance the Programmability and Controllability of Cloud Virtual Infrastructures (CLOUD2018-2018)

Huan Zhou (University of Amsterdam, NL), Yang Hu (University of Amsterdam, NL), Jinshu Su (National University of Defense Technology, CN), Cees de Laat (University of Amsterdam, NL), Zhiming Zhao (University of Amsterdam, NL)

A RESTful E-Governance Application Framework for People Identity Verification in Cloud (CLOUD2018-2019)

Ahmedur Rahman Shovon (Jahangirnagar University, BD), Shanto Roy (Jahangirnagar University, BD), Tanusree Sharma (Jahangirnagar University, BD), Md Whaiduzzaman (Jahangirnagar University, BD)

Session 2: Cloud Environment Framework (06/27 Wednesday, 9:25-10:25; Room 2)
20 minutes for each paper.

A novel anomaly detection algorithm based on trident tree (CLOUD2018-2020)
Chunkai Zhang (Hamline University, US), Ao Yin (Hamline University, US), Yepeng Deng (Hamline University, US), Panbo Tian (Hamline University, US), Xuan Wang (Hamline University, US), Lifeng Dong (Hamline University, US)

Framework for Management of Multi-Tenant Cloud Environments (CLOUD2018-2021)
Feuerlicht George (UTS/VSE/Unicorn, US), Beranek Marek (UTS/VSE/Unicorn, US), Kovar Vladimir (UTS/VSE/Unicorn, US)
Fault Tolerant VM Consolidation for Energy-Efficient Cloud Environments (CLOUD2018-2022)
Cihan Secinti (Istanbul Technical University, TR), Tolga Ovatman (Istanbul Technical University, TR),

Session 3: Cloud Data Processing (06/27 Wednesday, 14:20-15:20; Room 1)
20 minutes for each paper.

Over-sampling Algorithm Based on VAE in imbalanced Classification (CLOUD2018-2023)
Chunkai Zhang (Harbin Institute of Technology, CN), Ying Zhou (Harbin Institute of Technology, CN), Yingyang Chen (Harbin Institute of Technology, CN), Yepeng Deng (Harbin Institute of Technology, CN), Xuan Wang (Harbin Institute of Technology, CN), Lifeng Dong (Hamline University, US), Haoyu Wei (Sichuan University, CN)

A Two-Stage Data Processing Algorithm to Generate Random Sample Partitions for Big Data Analysis (CLOUD2018-2024)
Chenghao Wei (Shenzhen University, CN), Salman Salloum (Shenzhen University, CN), Tamer Emara (Shenzhen University, CN), Xiaoliang Zhang (Shenzhen University, CN), Joshua Zhexue Huang (Shenzhen University, CN), Yulin He (Shenzhen University, CN)

Session 4: Cloud Analytics (06/27 Wednesday, 14:20-15:20; Room 2)
20 minutes for each paper.

An improved measurement for the imbalanced dataset (CLOUD2018-2025)
Chunkai Zhang (Harbin Institute of Technology, CN), Ying Zhou (Harbin Institute of Technology, CN), Yingyang Chen (Harbin Institute of Technology, CN), Yepeng Deng (Harbin Institute of Technology, CN), Xuan Wang (Harbin Institute of Technology, CN), Lifeng Dong (Hamline University, US), Haoyu Wei (Sichuan University, CN)

A Big Data Analytical Approach to Cloud Intrusion Detection (CLOUD2018-2026)
Halim Gorkem Gulmez (Middle East Technical University, TR), Emrah Tuncel (Middle East Technical University, TR), Pelin Angin (Middle East Technical University, TR)

CLOUD Short Paper Track

Session 1: Cloud as a Service (06/29 Friday, 14:10-15:20; Room 3)
15 minutes for each paper.

Context Sensitive Efficient Automatic Resource Scheduling for Cloud Applications (CLOUD2018-2027)
Lun Meng (Hohai university, CN), Yao Sun (Jinling Institute of Technology, CN)

A Case Study on Benchmarking IoT Cloud Services (CLOUD2018-2028)
Gruenberg Kevin (Bielefeld University of Applied Sciences, DE), Schenck Wolfram (Bielefeld University of Applied Sciences, DE)

A Comprehensive Solution for Research-Oriented Cloud Computing (CLOUD2018-2029)
Mevlut Demir (University of Texas at San Antonio, US), Weslyn Wagner (University of Texas at San Antonio, US), Divyaansh Dandona (University of Texas at San Antonio, US), John Prevost (University of Texas at San Antonio, US)

2018 International Conference on Services Computing (SCC 2018)

SCC Research Track

Session 1: Services Algorithms (06/27 Wednesday, 14:20-15:20; Room 5)
20 minutes for each paper.

Program Recommendation Algorithm Based on Tag Association Model (SCC2018-3001)
Fulian Yin (Communication University of China) Xiaowei Liu (Communication University of China CN) Congcong Zhang (Communication University of China CN) Rongge Xu (Communication University of China CN)

Virtual Machine Profiling for Analyzing Resource Usage of Applications (SCC2018-3002)
Xuesong Peng (Politecnico di Milano IT) Barbara Pernici (Politecnico di Milano IT) Monica Vitali (Politecnico di Milano IT)

A Survey of Time-aware Dynamic QoS Forecasting Research, Its Future Challenges and Research Directions (SCC2018-3003)
Yang Syu (Institute of Information Science, Academia Sinica, Taipei, Taiwan TW) Chien-Min Wang (Institute of Information Science, Academia Sinica, Taipei, Taiwan TW) Yong-Yi Fanjiang (Department of Computer Science and Information Engineering, Fu Jen Catholic Uni-versity, New Taipei TW)

Session 2: Services Linkage (06/28 Thursday, 13:00-14:00; Room 5)
20 minutes for each paper.

Efficient Web Service Composition via Knapsack-Variant Algorithm (SCC2018-3004)
Shiliang Fan (Nanjing University CN) Yubin Yang (Nanjing University CN) Xiaoxuan Wang (Science and Technology on Information System Engineering Laboratory CN)

Security-Aware Passwords and Services Usage in Developing Countries: A Case Study of Bangladesh (SCC2018-3005)
Rasib Khan (Northern Kentucky University US) Ragib Hasan (University of Alabama at Birmingham US)

Data Service API Design for Data Analytics (SCC2018-3006)
Yun Zhang (UNSW AU) Liming Zhu (UNSW AU) Xiwei Xu (UNSW AU) Shiping Chen (UNSW AU) An Binh Tran (UNSW AU)

Session 3: Services Infrastructure (06/28 Thursday, 14:10-15:10; Room 5)
20 minutes for each paper.

Research of Web service Recommendation Using Bayesian network Reasoning (SCC2018-3007)
Jianxiao Liu (College of Informatics, Huazhong Agricultural University CN) Zonglin Tian (College of Informatics, Huazhong Agricultural University CN) Yifei Liu (College of Informatics, Huazhong Agricultural University CN) Liang Zhao (College of Informatics, Huazhong Agricultural University CN)

Configurable IoT-Aware Allocation in Business Processes (SCC2018-3008)
Kunal Suri (CEA, LIST, LIDEO, P.C. 174, Gif-sur-Yvette, France FR) Walid Gaaloul (TELECOM Sudparis,

SAMOVAR UMR 5157, University Paris-Saclay FR) Arnaud Cuccuru (CEA, LIST, LIDEO, P.C. 174, Gif-sur-Yvette, FR)

Session 4: Services Infrastructure and Mashup (06/28 Thursday, 15:20-16:20; Room 5)
20 minutes for each paper.

A Multi-stage Dynamic Game-Theoretic Approach for Multi-Workflow Scheduling on Heterogeneous Virtual Machines from Multiple Infrastructure-as-a-Service Clouds (SCC2018-3009)
Yuandou Wang (College of Computer Science, Chongqing University CN) Jiajia Jiang (College of Computer Science, Chongqing University, CN) Yunni Xia (College of Computer Science, Chongqing University, CN) Quangwang Wu (College of Computer Science, Chongqing University CN) Xin Luo (College of Computer Science, Chongqing University CN) Qingsheng Zhu (College of Computer Science, Chongqing University CN)

A Quality-based Web API Selection for Mashup Development using Affinity Propagation (SCC2018-3010)
Kenneth Fletcher (University of Massachusetts Boston US)

SCC Application and Industry Track

Session 1: Services Profiling (06/28 Thursday, 17:00-18:00; Room 5)
20 minutes for each paper.

Perfomance Evaluation of Java, JavaScript and PHP Serialization Libraries for XML, JSON and Binary Formats (SCC2018-3011)
Jan Vanura (University of Hradec Kralove CZ) Pavel Kriz (University of Hradec Kralove CZ)

Queue-waiting-time based Load Balancing Algorithm for Fine-grain Microservices (SCC2018-3012)
Liu XiaoDong (Chinese Academy of Sciences, CN) Zhao XiaoFang (Chinese Academy of Sciences, CN) Jin Yan (Chinese Academy of Sciences, CN) Song YongHao (Chinese Academy of Sciences, CN)

2018 International Conference on AI & Mobile Services (AIMS 2018)

AIMS Research Track

Session 1: AI Modeling (06/27 Wednesday, 9:25-10:25; Room 5)

A Two-Stage Bi-LSTM Model for Chinese Company Name Recognition (AIMS2018-4001)
   Jing Zeng (Tsinghua University, CN) Jin Che ((Kingdee International Software Group Company Limited, CN) Chunxiao Xing (Tsinghua University, CN) Liang-Jie Zhang (Kingdee International Software Group Company Limited, CN)

Multi-modal Multi-scale Speech Expression Evaluation in Computer-Assisted Language Learning (AIMS2018-4002)
   Jingbei Li (Tsinghua University, CN) Zhiyong Wu (Tsinghua University, CN) Runnan Li (Tsinghua University, CN) Mingxing Xu (Tsinghua University, CN) Kehua Lei (Tsinghua University, CN) Lianhong Cai (Tsinghua University, CN)

From Global to Local: Local Popularity Prediction Using Context-embedded LSTM Recurrent Network (AIMS2018-4003)
   Jiahui Ye (Tsinghua-Berkerley Shenzhen Institute, CN) Zhi Wang (Graduate School at Shenzhen, Tsinghua University, CN) Wenwu Zhu (Tsinghua University, CN)

Session 2: Neural Networks (06/28 Thursday, 8:15-9:15; Room 5)

Matching Low-Quality photo to DSLR-Quality with Deep Convolutional Networks (AIMS2018-4004)
   Weihao Xia (Graduate School at Shenzhen, Tsinghua University, CN) Yujiu Yang (Graduate School at Shenzhen, Tsinghua University, CN) Chengxi Yang(SenseTime Group Limited, CN) Wenxiu Sun (SenseTime Group Limited, CN)

Learning Frame-Level Recurrent Neural Networks Representations for Query-by-Example Spoken Term Detection on Mobile Devices (AIMS2018-4005)
   Ziwei Zhu (Tsinghua University, CN) Zhiyong Wu (Tsinghua University, CN) Runnan Li (Tsinghua University, CN) Yishuang Ning (Tsinghua University, CN) Helen Meng (The Chinese University of Hong Kong, CN)

Plant Identification based on Image Set Analysis (AIMS2018-4006)
   Tao Liu (Northwest A&F University, CN) Cheng Cai (Northwest A&F University, CN)

Session 3: AI Algorithm (06/28 Thursday, 14:10-15:10; Room 2)

Economic Index Forecasting via Multi-Scale Recursive Dynamic Factor Analysis (AIMS2018-4007)
   Haoyi Yuan (Jiaxing University Nanhu College, CN) Yang Yuan (Northeastern University, CN) H. C. Wu (The University of Hong Kong, CN) Yuexian Zou (Peking University Shenzhen Graduate School, CN)

Sub-Goal Oriented A* Search (AIMS2018-4008)
   Erdal Kose (Fairleigh Dickinson University, US)

Towards Efficient Mobile Augmented Reality in Indoor Environments (AIMS2018-4009)
   Mohammad Alahmadi (Florida State University, US) Jie Yang (Florida State University, US)

Session 4: AI & Securtiy (06/28 Thursday, 15:20-16:20; Room 1)

MAD-API: Detection, Correction and Explanation of API Misuses in Distributed Android Applications (AIMS2018-4010)
   Tianyue Luo (Chinese Academy of Sciences, CN) Jingzheng Wu (Chinese Academy of Sciences, CN) Mutian Yang (Chinese Academy of Sciences, CN) Sizhe Zhao (Chinese Academy of Sciences, CN) Yanjun Wu (Chinese Academy of

Sciences, CN) Yongji Wang (Chinese Academy of Sciences, CN)

Relaxed Event-triggered Control of Networked Control Systems under Denial of Service Attacks (AIMS2018-4011)

Hongtao Sun (Shanghai University, CN) Chen Peng (Shanghai University, CN)

AIMS Application and Industry Track

Session 1: AI & Mobile Application (06/28 Thursday, 15:20-16:20; Room 2)
20 minutes for each paper.

Sentiment Analysis Based on Hybrid Bi-Attention mechanism in Mobile Application (AIMS2018-4012)

Pengcheng ZHU (Graduate School at Shenzhen, Tsinghua University, CN) Yujiu Yang (Graduate School at Shenzhen, Tsinghua University, CN) Yi Liu (Peking University Shenzhen Institute, Guangdong, CN)

Automotive Diagnostics as a Service: An Artificially Intelligent Mobile Application for Tire Condition Assessment (AIMS2018-4013)

Joshua Siegel (Massachusetts Institute of Technology, US) Yongbin Sun (Massachusetts Institute of Technology, US) Sanjay Sarma (Massachusetts Institute of Technology, US)

AICDS: An infant crying detection system based on lightweight convolutional neural network (AIMS2018-4014)

Xiaohu Zhang (Peking University Shenzhen Graduate School, CN) Yuexian Zou (Peking University Shenzhen Graduate School, CN) Yi Liu (Peking University Shenzhen Institute, Guangdong, CN)

Session 2: AI Algorithm (06/28 Thursday, 17:00-18:00; Room 1)
20 minutes for each paper.

Exploring Trends of Lung Cancer Research Based on Word Representation (AIMS2018-4015)

Jingqiao Wu (Jilin University, CN) Yanchun Liang (Jilin University, CN) Xiaoyue Feng (Jilin University, CN) Gang Song (Jilin University, CN)

Effective Facial Obstructions Removal with Enhanced Cycle-Consistent Generative Adversarial Networks (AIMS2018-4016)

Yuming Wang (Huazhong University of Science and Technology, CN) Xiao Ou (Huazhong University of Science and Technology, CN) Lai Tu (Huazhong University of Science and Technology, CN) Ling Liu (Georgia Institute of Technology, US)

Applied Analysis of Social Network Data in Personal Credit Evaluation (AIMS2018-4017)

Yanyong Wang (University of Science and Technology, CN) Jian Yang (University of Science and Technology, CN) Daniyaer Saifuding (University of Science and Technology, CN) Jiejie Fan (University of Science and Technology, CN) Ranran Li (University of Science and Technology Beijing, CN) Chongchong Zhao (University of Science and Technology CN) Jie Xu (Tsinghua University, CN) Chunxiao Xing (Tsinghua University, CN)

AIMS Short Paper Track

Session 1: AI Modeling (06/28 Thursday, 17:00-18:00; Room 4)
15 minutes for each paper.

Deep Neural Network Based Frame Reconstruction for Optimized Video Coding (AIMS2018-4018)
Dandan Ding (Hangzhou Normal University, CN) Peng Liu (Hangzhou Normal University, CN) Yu Chen (Hangzhou

Normal University, CN) Zheng Zhu (Visionular Inc., CN) Zoe Liu (Google Inc., US) James Bankoski (Google Inc., US)

Detection and tracking of moving objects system for indoor mobile robots with a low-cost laser scanner
(AIMS2018-4019)

Tianyu Liu (Shenzhen Academy of Robotics, CN) Ye Gu (Shenzhen Academy of Robotics, CN) Yongsheng Ou (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN) Yongqiang Li (Harbin Institute of Technology, CN) Weihua Sheng (Oklahoma State University, US) Ha Do (Oklahoma State University, US)

Using IT/IS Applications to Empower Physically Challenged Individuals to Enjoy a High Quality of Life
(AIMS2018-4020)

Nnilmini Wickramasinghe (Deakin University and Epworth HealthCare, AU) Nadeem Shaukat (Deakin University and Epworth HealthCare, AU) Freimut Bodendorf (Freidrich Alexander University, DE)

2018 International Conference on Cognitive Computing (ICCC 2018)

ICCC Research Track

Session 1: Cognitive Modeling (06/28 Thursday, 17:00-18:00; Room 2)
20 minutes for each paper.

A Set-Associated Bin Packing Algorithm with Multiple Objectives in the Cloud (ICCC2018-5001)
Fei Luo (East China University of Science and Technology, CN) Chunhua Gu (East China University of Science and Technology, CN)

A Pair-wise Method for Aspect-based Sentiment Analysis (ICCC2018-5002)
Gangbao Chen (Harbin Institute of Technology Shenzhen Graduate School, CN) Ruifeng Xu (Harbin Institute of Technology Shenzhen Graduate School, CN)

Forum User Profiling by Integrating Behavior and Social Network (ICCC2018-5003)
Di Chen (Harbin Institute of Technology Shenzhen Graduate School, CN) Ruifeng Xu (Harbin Institute of Technology Shenzhen Graduate School, CN)

Session 2: Learning Technologies (06/29 Friday, 8:15-9:15; Room 4)
20 minutes for each paper.

Adversarial Training for Sarcasm Detection (ICCC2018-5004)
Qinglin Zhang (Harbin Institute of Technology Shenzhen Graduate School, CN) Ruifeng Xu (Harbin Institute of Technology Shenzhen Graduate School, CN)

Reinforcement Learning with Monte Carlo Sampling in Imperfect Information Problems (ICCC2018-5005)
Jiajia Zhang (Shenzhen Graduate School, Peking University, CN) Hong Liu (Shenzhen Graduate School, Peking University, CN)

Comparative Evaluation of Priming Effects on HMDs and Smartphones with Photo Taking Behaviors (ICCC2018-5006)
Naoya Isoyama (Kobe University, JP) Tsutomu Terada (Kobe University / PRESTO, JST) Masahiko Tsukamoto (Kobe University, JST)

Session 3: System Evaluation and Data Acquisition (06/29 Friday, 9:25-10:25; Room 4)
20 minutes for each paper.

An Efficient Diagnosis System for Thyroid Disease Based on Enhanced Kernelized Extreme Learning Machine Approach (ICCC2018-5007)
Chao Ma (Shenzhen Institute of Information Technology, CN) Jian Guan (Harbin Institute of Technology Shenzhen Graduate School, CN) Wenyong Zhao (Shenzhen Institute of Information Technology, CN) Chaolun Wang (DFH Satellite Co., Ltd, CN)

Supporting Social Information Discovery from Big UncertainSocial Key-Value Data via Graph-like Metaphors (ICCC2018-5008)
Calvin S. H. Hoi (U Manitoba, CA) Carson K. Leung (U Manitoba, CA) Kimberly Tran (U Manitoba, CA) Alfredo Cuzzocrea (Uni Trieste/ICAR-CNR, ITA) Mario Bochicchio (Uni Salento, ITA) Marco Simonetti (Uni Trieste, ITA)

ICCC Applications Track

Session 1: Mobile Services (06/29 Friday, 10:50-12:00; Room 1)

20 minutes for each paper.

Development Status and Trends of Wearable Smart Devices on Wrists (ICCC2018-5009)

Li Yunyao (Nanjing University of Finance & Economics, Nanjing, CN) He Jing (Swinburne University of Technology, AU) Huang Guangyan (Deakin University, AU) Xie Zhijun (Ningbo University, CN)

Localized Mandarin Speech Synthesis Services for Enterprise Scenarios (ICCC2018-5010)

Yishuang Ning (Tsinghua University, CN) Huan Chen (Kingdee International Software Group Company Limited, CN) Chunxiao Xing (Tsinghua University, CN) Liang-Jie Zhang (Kingdee International Software Group Company Limited, CN)

ICCC Short Paper Track

Session 1: Cognitive Modeling (06/29 Friday, 13:00-14:00; Room 1)

15 minutes for each paper.

Biologically Inspired Augmented Memory Recall Model for Pattern Recognition (ICCC2018-5011)

Ashwin Viswanathan Kannan (Oklahoma State University, US) Goutam Mylavarapu (Oklahoma State University, US) Johnson Thomas (Oklahoma State University, US)

Utilizing the Capabilities Offered by Eye-Tracking to Foster Novices' Comprehension of Business Process Models (ICCC2018-5012)

Michael Zimoch (Ulm University, DE) Rüdiger Pryss (Ulm University, DE) Georg Layher (Ulm University, DE) Heiko Neumann (Ulm University, DE) Thomas Probst (Danube University Krems, AT) Winfried Schlee (Regensburg University, DE) Manfred Reichert Ulm University, DE)

Detecting Android Malware Using Bytecode Image (ICCC2018-5013)

Yuxin Ding (Harbin Institute of Technology Shenzhen Graduate School, CN) Rui Wu (Harbin Institute of Technology Shenzhen Graduate School, CN) Fuxing Xue (Harbin Institute of Technology Shenzhen Graduate School, CN)

Session 2: Cognitive Algorithms (06/29 Friday, 14:10-15:20; Room 1)

15 minutes for each paper.

The study of learners' Emotional Analysis Based on MOOC (ICCC2018-5014)

Fei Hongxiao (Central South University, CN) LI Hongyuan (Central South University, CN)

Source Detection Method Based on Propagation Probability (ICCC2018-5015)

Yuxin Ding (Harbin Institute of Technology Shenzhen Graduate School, CN) Longfei Wang (Harbin Institute of Technology Shenzhen Graduate School, CN) Rui Wu (Harbin Institute of Technology Shenzhen Graduate School, CN) Fuxing Xue (Harbin Institute of Technology Shenzhen Graduate School, CN)

2018 International Congress on Big Data (BigData Congress 2018)

BigData Congress Research Track

Session 1: BigData Modeling (06/28 Thursday, 8:15-9:15; Room 3)
20 minutes for each paper.

Time Series Similarity Search Based on Positive and Negative Query (BIGDATA2018-6001)
Jimin Wang (College of Computer and Information, Hohai University CN) Qi Liu (College of Computer and Information, Hohai University CN) Pengcheng Zhang (College of Computer and Information, Hohai University CN)

Inter-Category Distribution Enhanced Feature Extraction for Efficient Text Classification (BIGDATA2018-6002)
Yuming Wang (Huazhong University of Science and Technology CN) Jun Huang (Huazhong University of Science and Technology CN) Yun Liu (Huazhong University of Science and Technology CN) Lai Tu (Huazhong University of Science and Technology CN) Ling Liu (Georgia Institute of Technology US)

Reversible Data Perturbation Techniques for Multi-level Privacy-preserving Data Publication (BIGDATA2018-6003)
Chao Li (University of Pittsburgh US) Balaji Palanisamy (University of Pittsburgh US) Prashant Krishnamurthy (University of Pittsburgh US)

Session 2: BigData Analysis (06/28 Thursday, 8:15-9:15; Room 4)
20 minutes for each paper.

Real-Time Analysis of Big Network Packet Streams by Learning the Likelihood of Trusted Sequences (BIGDATA2018-6004)
John Yoon (Mercy College US) Michael Debiase (Mercy College US)

Forecasting Traffic Flow: Short Term, Long Term, and When It Rains (BIGDATA2018-6005)
Hao Peng (University of Georgia US) Santosh Bobade (University of Georgia US) Michael Cotterell (University of Georgia US) John Miller (University of Georgia US)

Approximate Query Matching for Graph-based Holistic Image Retrieval (BIGDATA2018-6006)
Abhijit Suprem (Georgia Institute of Technology US) Duen Horng Chau (Georgia Institute of Technology) Calton Pu (Georgia Institute of Technology US)

Session 3: BigData Knowledge Discoverying (06/28 Thursday, 13:00-14:00; Room 3)
20 minutes for each paper.

PAGE: Answering Graph Pattern Queries via Knowledge Graph Embedding (BIGDATA2018-6007)
Sanghyun Hong (University of Maryland, College Park US) Noseong Park (University of North Carolina, Charlotte US) Tanmoy Chakraborty (Indraprastha Institute of Information Technology Delhi (IIIT-D) IN) Hyunjoong Kang (Electronics and Telecommunications Research Institute (ETRI) KR) Soonhyun Kwon (Electronics and Telecommunications Research Institute (ETRI) KR)

Distributed Big Data Ingestion at Scale for Extremely Large Community of Users (BIGDATA2018-6008)

Gang Ye (eBay US) Venkat Tipparam (eBay US) Belinda Liu (eBay US) Yifei Chen (eBay US) Zoe Lang (eBay US) Diana Li (eBay US) Hong-Yen Nguyen (eBay US) CP Lai (eBay US) Steve Chan (eBay US)

Convolutional Neural Network Ensemble fine-tuning for Extended Transfer Learning (BIGDATA2018-6009)

Oxana Knorz (Boise State University US) Mikel Joaristi (Boise State University US) Edoardo Serra (Boise State University US)

Session 4: BigData Prediction (06/28 Thursday, 13:00-14:00; Room 4)
20 minutes for each paper.

GLDA-FP: Gaussian LDA Model for Forward Prediction (BIGDATA2018-6010)

Yunpeng Xiao (Chongqing Engineering Laboratory of Internet and Information Security, Chongqing University of Posts CN) Liangyun Liu (Chongqing Engineering Laboratory of Internet and Information Security, Chongqing University of Posts CN) Ming Xu (Research Institute of Information Technology, Tsinghua University CN) Haohan Wang (Carnegie Mellon University, Pittsburgh US) Yanbing Liu (Chongqing University of Posts CN)

Tracking Happiness of Different US Cities from Tweets (BIGDATA2018-6011)

Bryan Pauken (East Carolina University US) Mudit Pradyumn (East Carolina University US) Nasseh Tabrizi (East Carolina University US)

An Innovative Lambda-Architecture-Based Data Warehouse Maintenance Framework for Effective and Efficient Near-Real-Time OLAP over Big Data (BIGDATA2018-6012)

Alfredo Cuzzocrea (University of Trieste and ICAR-CNR, Italy ---) Rim Moussa (LaTICE Lab. University of Tunis, Tunisia) Gianni Vercelli (University of Genoa, Italy)

BigData Congress Application and Industry Track

Session 1: Machine Learning (06/28 Thursday, 14:10-15:10; Room 3)
20 minutes for each paper.

The Application of Machine Learning Algorithm Applied to 3Hs Risk Assessment (BIGDATA2018-6013)

Guixia Kang (Key Laboratory of Universal Wireless Communications CN) Bo Yang (Chinese PLA General Hospital CN) Dongli Wei (Key Laboratory of Universal Wireless Communications CN) ling Li (Key Laboratory of Universal Wireless Communications CN)

Development of Big Data Multi-VM Platform for Rapid Prototyping of Distributed Deep Learning (BIGDATA2018-6014)

Chien-Heng Wu (National Center for High-Performance Computing TW) Chiao-Ning Chuang (National Chiao Tung University TW) Wen-Yi Chang (National Center for High-Performance Computing TW) Whey-Fone Tsai (National Center for High-Performance Computing TW)

Exploring Proactive Data Protection in File Systems to Build Reliable Big Data Storage Systems (BIGDATA2018-6015)

Zhi Qiao (University of North Texas US) Jacob Hochstetler (University of North Texas US) Shuwen Liang (University of North Texas US) Song Fu (University of North Texas US) Hsing-bung Chen (Los Alamos National Laboratory US) Bradley Settlemyer (Los Alamos National Laboratory US)

Session 2: Machine Learning II (06/28 Thursday, 14:10-15:10; Room 4)
20 minutes for each paper.

On Scalability of Distributed Machine Learning with Big Data on Apache Spark (BIGDATA2018-6016)

Ameen Abdel Hai (Computer Science Department Saint Josephs University US) Babak Forouraghi (Computer Science Department Saint Josephs University US)

Development of a Big Data Platform for Analysis of Road Driving Environment using Vehicle Sensing Data and Public Data (BIGDATA2018-6017)

Intaek Jung (Korea Institute of Civil Engineering and Building Technology KR) Kyusoo Chong (Korea Institute of Civil Engineering and Building Technology KR)

Big Data Framework for finding patterns in Multi-Market Trading Data (BIGDATA2018-6018)

Daya Ram Budhathoki (University of Memphis US) Dipankar Dasgupta (University of Memphis US) Pankaj Jain (University of Memphis US)

Session 3: BigData Analytics (06/28 Thursday, 15:20-16:20; Room 3)
20 minutes for each paper.

Who's Next: Evaluating Attrition with Machine Learning Algorithms and Survival Analysis (BIGDATA2018-6019)

Jessica Frierson (University of Washington Bothell US) Dong Si (University of Washington Bothell US)

Volkswagen's Diesel Emission Scandal: Analysis of Facebook Engagement and Financial Outcomes (BIGDATA2018-6020)

Qi An (Copenhagen Business School DK) Morten Grimmig Christensen (Copenhagen Business School DK) Annith Ramachandran (Copenhagen Business School DK) Raghava Rao Mukkamala (Copenhagen Business School DK) Ravi Vatrapu (Copenhagen Business School DK)

Session 4: BigData Analytics (06/28 Thursday, 17:00-18:00; Room 3)
20 minutes for each paper.

LeadsRobot: A Sales Leads Generation Robot based on Big Data Analytics (BIGDATA2018-6021)

Jing Zeng (Tsinghua University CN) Jin Che (Kingdee International Software Group Company Limited CN) Chunxiao Xing (Tsinghua University CN) Liang-Jie Zhang (Kingdee International Software Group Company Limited CN)

Research on the High and New Technology Development Potential of China City Clusters Based on China's new OTC Market (BIGDATA2018-6022)

Deng Liping (Kingdee International Software Group Company Limited CN) Huan Chen (Kingdee International Software Group Company Limited CN) Zhang Liang-Jie (Kingdee International Software Group Company Limited CN) Li Xinnan (Kingdee International Software Group Company Limited CN)

BigData Congress Short Paper Track

Session 1: BigData Application (06/29 Friday, 10:50-12:00; Room 4)
15 minutes for each paper.

Analysis of Activity Population and Mobility Impacts of a New Shopping Mall Using Mobile Phone Bigdata (BIGDATA2018-6023)

Kwang-Sub Lee (Korea Railroad Research Institute, KR) Jin Ki Eom (Korea Railroad Research Institute, KR) Jun Lee (Korea Railroad Research Institute, KR) Dae Seop Moon (Korea Railroad Research Institute, KR)

Activity-based Traveler Analyzer using Mobile and Socioeconomic Bigdata (BIGDATA2018-6024)

Jinki Eom (Korea Railroad Research Institute, KR) Kwang-Sub Lee (Korea Railroad Research Institute, KR) Jun Lee (Korea Railroad Research Institute, KR) Dae-Seop Moon (Korea Railroad Research Institute, KR)

Design and Application of a Visual System for the Supply Chain of Thermal Coal Based on Big Data (BIGDATA2018-6025)

Xinyue Zhang (State Power Investment Corporation Limited Big Data Center, CN) Yanmin Han (State Power Investment Corporation Limited Big Data Center, CN) Wei Ge (State Power Investment Corporation Limited Central Research Institute, CN) Daqiang Yan (State Power Investment Corporation Limited Big Data Center, CN) Yiming Chen (State Power Investment Corporation Limited, CN)

Big Data on Twitter: A Systematic Review of Applications and Methods (BIGDATA2018-6026)

Mudit Pradyumn (East Carolina University, US) Nasseh Tabrizi (East Carolina University, US) Akshat Kapoor (East Carolina University, US)

Session 2: BigData Modeling (06/29 Friday, 13:00-14:00; Room 3)
15 minutes for each paper.

A Survey of Big Data use in large and medium Ecuadorian Companies (BIGDATA2018-6027)

Rosa Quelal (Escuela Superior Politecnica del Litoral, ES) Monica Villavicencio (Escuela Superior Politecnica del Litoral, ESP)

K-mer Counting for Genomic Big Data (BIGDATA2018-6028)

Jianqiu Ge (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN) Yanjie Wei (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN) Jintao Meng (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN), Ning Guo (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN), Bingqiang Wang (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN), Pavan Balaji (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN), Shengzhong Feng (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN), Jiaxiu Zhou (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, CN)

Ensemble Learning Based Gender Recognition from Physiological Signals (BIGDATA2018-6029)

Huiling Zhang (SIAT, Chinese Academy of Sciences, CN) Yanjie Wei (SIAT, Chinese Academy of Sciences, CN) Ning Guo (SIAT, Chinese Academy of Sciences, CN) Guangyuan Liu (SIAT, Chinese Academy of Sciences, CN) Junhao Hu (SIAT, Chinese Academy of Sciences, CN) JiaXiu Zhou (SIAT, Chinese Academy of Sciences, CN) Shengzhong Feng (SIAT, Chinese Academy of Science, CN)

Developing a Chinese Food Nutrient Data Analysis System for Precise Dietary Intake Management (BIGDATA2018-6030)

Xiaowei Xu (Chinese Academy of Medical Sciences /Peking Union Medical College, CN) Li Hou (Chinese Academy of Medical Sciences /Peking Union Medical College, CN) Zhen Guo (Chinese Academy of Medical Sciences /Peking Union Medical College, CN) Ju Wang (The University of Texas Health Science Center at Houston, US) Jiao Li (Chinese Academy of Medical Sciences /Peking Union Medical College, CN)

Session 3: Knowledge Acquisition (06/29 Friday, 13:00-14:00; Room 4)
15 minutes for each paper.

A Real-time Professional Content Recommendation System for Healthcare Providers' Knowledge Acquisition (BIGDATA2018-6031)

Lu Qin (Chinese Academy of Medical Sciences /Peking Union Medical College CN) Xiaowei Xu (Chinese Academy of Medical Sciences /Peking Union Medical College CN) Jiao Li (Chinese Academy of Medical Sciences /Peking Union Medical College CN)

Study on Big Data Visualization of Joint Operation Command and Control System (BIGDATA2018-6032)

Gang Liu (Tsinghua University CN) Yi Su (Tsinghua University CN)

2018 International Conference on Internet of Things (ICIOT 2018)

ICIOT Research Track

Session 1: Architecture (06/29 Friday, 8:15-9:15; Room 5)
20 minutes for each paper.

A Blockchain-based Decentralized Security Architecture for IoT (ICIOT2018-7001)
  Pelin Angin (Middle East Technical University, Turkey), Melih Burak Mert (Middle East Technical University, Turkey), Okan Mete (Middle East Technical University, Turkey), Azer Ramazanli (Middle East Technical University, Turkey), Kaan Sarica (Middle East Technical University, Turkey), Bora Gungoren (Portakal Teknoloji, Turkey)

Pattern Based Integration of Internet of Things Systems (ICIOT2018-7002)
  Bedir Tekinerdogan (Wageningen University, Netherlands), Ömer Köksal (Wageningen University, Netherlands)

A Novel Wiki Mechanism of Engineering Empirical Knowledge Management (ICIOT2018-7003)
  Zuhua Jiang (School of Mechanical Engineering, Shanghai Jiao Tong University, CN), Ying Huang (School of Mechanical Engineering, Shanghai Jiao Tong University, CN), Geng Li (School of Mechanical Engineering, Shanghai Jiao Tong University, CN)

Session 2: Smart IoT (06/29 Friday, 9:25-10:25; Room 2)
20 minutes for each paper.

Activity Recognition using Graphical Features from Smart Phone Sensor (ICIOT2018-7004)
  Syeda Akter (Washington State University, US), Lawrence Holder (Washington State University, US), Diane Cook (Washington State University, US)

Algebraic Service Composition for User-Centric IoT Applications (ICIOT2018-7005)
  Damian Arellanes (The University of Manchester, UK), Kung-Kiu Lau (The University of Manchester, UK)

QoS-Aware Resource Allocation for Mobile IoT Pub/Sub Systems (ICIOT2018-7006)
  Raphael Gomes (Instituto Federal de Goiás - Câmpus Goiânia, Brazil), Georgios Bouloukakis (Donald Bren School of Information and Computer Sciences, University of California, Irvine, USA), Fábio Costa (Instituto de Informática, Universidade Federal de Goiás, Brazil), Nikolaos Georgantas (Inria Paris, France), Ricardo da Rocha (Instituto de Biotecnologia, Universidade Federal de Goiás, Catalão, Brazil)

Session 3: IoT sensing (06/29 Friday, 10:50-12:00; Room 5)
20 minutes for each paper.

ProCal: A Low-Cost and Programmable Calibration Tool for IoT Devices (ICIOT2018-7007)
  Chia Chi Li (Santa Clara University, US), Behnam Dezfouli (Santa Clara University, US)

Identification of Remote IoT Users Using Sensor Data Analytics (ICIOT2018-7008)
  Nazar Abbas Saqib (College of Electrical & Mechanical Engg, Nust Islamabad, Pakistan), Muazzam.A. K Kattack (School of Electrical Engg and Computer Sciences, Nust Islamabad, Pakistan)

Research on the Design of Human Settlement System and Personal Air Purification System under the Background of Internet of Things (ICIOT2018-7009)
  Yi Su (Tsinghua University, CN), Gang Liu (Tsinghua University, CN), Lei Zhang (Tsinghua University, CN)

ICIOT Applications Track

Session 1: IoT sensing (06/29 Friday, 9:25-10:25; Room 2)

20 minutes for each paper.

FPGA Hardware Implementation of Smart Home Autonomous System based on Deep Learning (ICIOT2018-7010)

   Basman Alhafidh (Florida Institute of Technology, US), Amar Daood (Florida Institute of Technology, US), Mohammed Alawad (University of Central Florida, US), William Allen (Florida Institute of Technology, US)

An Empirical Analysis of Smart Connected Home Data (ICIOT2018-7011)

   Joseph Bugeja (Malmo University, Sweden), Andreas Jacobsson (Malmo University, Sweden), Paul Davidsson (Malmo University, Sweden)

Session 2: IoT Securtiy & Communication (06/29 Friday, 10:50-12:00; Room 2)

20 minutes for each paper.

Using Blockchain for IOT Access Control and Authentication Management (ICIOT2018-7012)

   Abdallah Zoubir Ourad (Universität Passau, German), Boutheyna Belgacem (Universität Passau, German), Khaled Salah (Khalifa University, UAE)

A Middleware Mediated Application Layer Protocol to Decouple Provider-Consumer Relationship in Web Services Orchestration And Its Application in Novel IoT Integration (ICIOT2018-7013)

   Venkatesan Devanathan (Anna University, India), Deepan Chakraborthy (Anna University, India), Pandithurai Othiyappan (Anna University, India)

ICIOT Short Paper Track

Session 1: (06/29 Friday, 13:00-14:00; Room 5)

15 minutes for each paper.

RT-OCF: A Lightweight Device-to-Device Framework for the Internet of Things (ICIOT2018-7014)

   Chanhee Lee (Samsung Electronics, KR), Jaehong Jo (Samsung Electronics, KR), Jongsung Lee (Samsung Electronics, KR), Daesung An (Samsung Electronics, KR), Jaehyun Cho (Samsung Electronics, KR), Rami Jung (Samsung Electronics, KR)

2018 International Conference on Edge Computing (EDGE 2018)

EDGE Research Track

Session 1: Edge System and Data Retrieving (06/27 Wednesday, 14:20-15:20; Room 4)
20 minutes for each paper.

Home Edge Computing (HEC): Design of a New Edge Computing Technology for Achieving Ultra-Low Latency (EDGE2018-8001)

Cheikh Saliou Mbacke Babou (Cheikh Anta Diop University, Faculty of Science and Technology, Dakar 5005 Senegal), Doudou Fall (Nara Institute of Science and Technology, Laboratory for Cyber Resilience, Ikoma, Nara, JAPAN), Shigeru Kashihara (Nara Institute of Science and Technology, Laboratory for Cyber Resilience, Ikoma, Nara, JAPAN), Ibrahima Niang (Cheikh Anta Diop University, Faculty of Science and Technology, Dakar 5005 Senegal), Youki Kadobayashi (Nara Institute of Science and Technology, Laboratory for Cyber Resilience, Ikoma, Nara, JAPAN)

A Reconfigurable Streaming Processor for Real-Time Low-Power Execution of Convolutional Neural Networks at the Edge (EDGE2018-8002)

Justin Sanchez (University of North Carolina at Charlotte, US), Nasim Soltani (University of North Carolina at Charlotte, US), Pratik Kulkarni (University of North Carolina at Charlotte, US), Ramachandra Chamarthi (University of North Carolina at Charlotte, US), Hamed Tabkhi (University of North Carolina at Charlotte, US)

Session 2: Edge Architecture and Data Streaming (06/29 Friday 8:15-9:15; Room 1)
20 minutes for each paper.

Boundless Application and Resource Based on Container Technology (EDGE2018-8003)

Zhenguang Yu (Beijing University of Posts and Telecommunications, CN), Jingyu Wang (Beijing University of Posts and Telecommunications, CN), Qi Qi (Beijing University of Posts and Telecommunications, CN), Jianxin Liao (Beijing University of Posts and Telecommunications, CN)

Modular framework for Data Prefetching and Replacement at the Edge (EDGE2018-8004)

Dusan Ramljak (Temple University, US), Deepak Abraham Tom (University of Florida, US), Doug Voigt (Hewlett Packard Enterprise, US), Krishna Kant (Temple University, US)

EDGE Applications Track

Session 1: Edge Scaling and Mobile Edge (06/29 Friday, 9:25-10:25; Room 1)
20 minutes for each paper.

Efficient Bare Metal Auto-Scaling for NFV in Edge Computing (EDGE2018-8005)

Xudong Pang (Beijing University of Posts and Telecommunications, CN), Jing Wang (Beijing University of Posts and Telecommunications, CN), Jingyu Wang (Beijing University of Posts and Telecommunications, CN), Qi Qi (Beijing University of Posts and Telecommunications, CN), Jie Xu (Beijing University of Posts and Telecommunications, CN), Zhenguang Yu (Beijing University of Posts and Telecommunications, CN)

Mobile Edge Offloading using Markov Decision Processes (EDGE2018-8006)

Khalid Alasmari (University of Toledo, US), Rob Green (Bowling Green State University, US), Mansoor Alam (University of Toledo, US)

A Face Recognition System Based on Cloud Computing and AI Edge for IOT (EDGE2018-8007)
Junjie Zeng (Kingdee, CN), Cheng Li (Kingdee, CN), Liang-jie Zhang (Kingdee, CN)

Session 2: Edge System (06/29 Friday, 13:00-14:00; Room 2)
20 minutes for each paper.

A Robust Retail POS System based on Blockchain and Edge Computing (EDGE2018-8008)
Bo Hu (Kingdee, CN), Hongfeng Xie (Kingdee, CN), Yutao Ma (Wuhan University, CN), Jian Wang (Wuhan University, CN), Liang-Jie Zhang (Kingdee, CN)

A Privacy Risk Aware Service Selection Approach for Service Composition (EDGE2018-8009)
Mingdong Tang (Guangdong University of Foreign Studies, CN), Jianguo Xie (Guangdong University of Foreign Studies, CN), Sumeng Zeng (Hunan University of Science and Technology, CN)

EDGE Short Paper Track

Session 1: Clouds and Services (06/29 Monday, 14:10-15:10; Room 2)
15 minutes for each paper.

A Chinese Text Correction and Intention Identification Method for Speech Interactive Scene (EDGE2018-8010)
Jin Che (Kingdee, CN), Huan Chen (Kingdee, CN), Jing Zeng (Tsinghua University, CN), Liang-Jie Zhang (Kingdee, CN)

FCN-biLSTM Based VAT Invoice Recognition and Processing (EDGE2018-8011)
Fei Jiang (Kingdee, CN), Huan Chen (Kingdee, CN), Liang-Jie Zhang (Kingdee, CN)

Research on Cross-chain Technology Based on Sidechain and Hash-locking (EDGE2018-8012)
Liping Deng (Kingdee, CN), Huan Chen (Kingdee, CN), Jing Zeng (Tsinghua University, CN), Liang-Jie Zhang (Kingdee, CN)

2018 International Conference on Blockchain (ICBC 2018)

ICBC Research Track

Session 1: Blockchain Research (06/26 Tuesday, 10:50-12:00; Room 5)

Using Ethereum Blockchain in Internet of Things Scenario: A Solution for Electric Vehicle Battery Refueling (ICBC2018-9001)

Haoli Sun (Fujitsu research & development center, CN), Song Hua (Fujitsu research & development center, CN), Ence Zhou (Fujitsu research & development center, CN), Bingfeng Pi (Fujitsu research & development center, CN), Jun Sun (Fujitsu research & development center, CN), Kazuhiro Yamashita (Fujitsu Laboratories, JP)

A Simulation Approach for Studying Behavior and Quality of Blockchain Networks (ICBC2018-9002)

Bozhi Wang (University of New South Wales, Australia), Shiping Chen (CSIRO Data61, UNSW, AU), Lina Yao (UNSW, AU), Bin Liu (CSIRO Data61, UNSW, AU), Xiwei Xu (CSIRO Data61, UNSW, AU), Liming Zhu (CSIRO Data61, AU)

A Design of Digital Rights Management Mechanism Based on Blockchain Technology (ICBC2018-9003)

Zehao Zhang (Tsinghua University, CN), Li Zhao (Tsinghua University, CN)

Session 2: Multi Chain (06/28 Thursday, 8:15-9:15; Room 1)

InfiniteChain: A Multi-chain Architecture with Distributed Auditing of Sidechains for Public Blockchains (ICBC2018-9004)

Gwan-Hwan Hwang (National Taiwan Normal University, TW), Po-Han Chen (TideTime Sun Limited, CN), Chun-Hao Lu (TideTime Sun Limited, CN), Chun Chiu (TideTime Sun Limited, CN), Hsuan-Cheng Lin (TideTime Sun Limited, CN), An-Jie Jheng (TideTime Sun Limited, CN)

A method to predict the performance and storage of executing contract for Ethereum consortium-blockchain (ICBC2018-9005)

Huijuan Zhang (Tongji University, CN), Chengxin Jin (Tongji University, CN), Hejie Cui (Tongji University, CN)

Smart Contract Programming Languages on Blockchains: An Empirical Evaluation of Usability and Security (ICBC2018-9006)

Reza M. Parizi (Kennesaw State University, US), Amritraj (Kennesaw State University, US), Ali Dehghantanha (University of Sheffield, UK)

Session 3: Smart Contracts (06/28 Thursday, 13:00-14:00; Room 1)

Applying Design Patterns in Smart Contracts: A Case Study on a Blockchain-based Traceability Application (ICBC2018-9007)

Yue Liu (College of Computer and Communication Engineering, China University of Petroleum (East China), China), Qinghua Lu (Data61, CSIRO, Sydney, Australia), Xiwei Xu (Data61, CSIRO, Sydney, Australia), Liming Zhu (Data61, CSIRO, Sydney, Australia), Haonan Yao (College of Computer and Communication Engineering, China University of Petroleum (East China), China)

AODV-based Routing for Payment Channel Networks (ICBC2018-9008)

Philipp Hoenisch (Data61, CSIRO, Australia), Ingo Weber (Data61, CSIRO, Australia)

ICBC Application and Industry Track

Session 1: Blockchain solutions (06/28 Thursday, 8:15-9:15; Room 2)

Faster Dual-Key Stealth Address for Blockchain-Based Internet of Things Systems (ICBC2018-9009)
Xinxin Fan (IoTeX)

Blockchain-based Solution for Proof of Delivery of Physical Assets (ICBC2018-9010)
Haya R. Hasan (Khalifa University of Science, Technology and Research Abu Dhabi, UAE), Khaled Salah (Khalifa University of Science, Technology and Research Abu Dhabi, UAE)

Towards Legally Enforceable Smart Contracts (ICBC2018-9011)
Dhiren Patel (Veermata Jijabai Technological Institute, Mumbai, India), Keivan Shah (Veermata Jijabai Technological Institute, Mumbai, India), Sanket Shanbhag (Veermata Jijabai Technological Institute, Mumbai, India), Vasu Mistry (National Institute of Technology, Surat, India)

Session 2: Business models and analyses (06/28 Thursday, 13:00-14:00; Room 2)

Border Control and Immigration on Blockchain (ICBC2018-9012)
Dhiren Patel (Veermata Jijabai Technological Institute, Mumbai, India), Balakarthikeyan Rajan (Veermata Jijabai Technological Institute, Mumbai, India), Vasu Mistry (National Institute of Technology, Surat, India)

RPchain: A Blockchain-based Academic Social Networking Service for Credible Reputation Building (ICBC2018-9013)
Dong Qin (Xi'an Jiaotong University, CN), Chenxu Wang (Xi'an Jiaotong University, CN), Yiming Jiang (Xi'an Jiaotong University, CN)

IPFS-Blockchain-based Authenticity of Online Publications (ICBC2018-9014)
Nishara Nizamuddin (Khalifa University of Science, Technology and Research Abu Dhabi, UAE), Haya R. Hasan (Khalifa University of Science, Technology and Research Abu Dhabi, UAE), Khaled Salah (Khalifa University of Science, Technology and Research Abu Dhabi, UAE)

Session 3: Blockchain framework and market (06/28 Thursday, 14:10=15:10; Room 1)

Blockchain Framework for Textile Supply Chain Management Improving Transparency, Traceability, and Quality (ICBC2018-9015)
Magdi Elmessiry (Textile Engineering Department, Faculty of Engineering, Alexandria University, Egypt), Adel ElMessiry (Garment Chain, Nashville, TN, USA)

Research on the Pricing Strategy of the CryptoCurrency Miner's Market (ICBC2018-9016)
Liping Deng (Kingdee International Software Group Company Limited, CN), Jin Che (Kingdee International Software Group Company Limited, CN), Huan Chen (Kingdee International Software Group Company Limited, CN), Liang-Jie Zhang (Kingdee International Software Group Company, CN)

ICBC Short Paper Track

Session 1: Fundamental Research (06/29 Friday, 14:10-15:20; Room 4)
15 minutes for each paper.

FBaaS: Functional Blockchain as a Service (ICBC2018-9017)
Huan Chen (Kingdee, CN), Liang-Jie Zhang (Kingdee, CN)
LedgerGuard: Improving Blockchain Ledger Dependability (ICBC2018-9018)
Qi Zhang (IBM Research, US), Petr Novotny (IBM Research, US), Salman Baset (IBM Research, US), Donna

Dillenberger (IBM Research, US), Artem Barger (IBM Research, Israel), Yacov Manevich (IBM Research, Israel)

Blockchain-Based Research Data Sharing Framework for Incentivizing the Data Owners (ICBC2018-9019)

Ajay Kumar Shrestha (University of Saskatchewan, Canada), Julita Vassileva (University of Saskatchewan, Canada)

A Novel Blockchain as a Service Paradigm (ICBC2018-9020)

Zhitao Wan (Ge Lian Corporation, CN), Minqing Cai (Shanghai University of Finance and Economics, CN), Jinqing Yang (Ge Lian Corporation, CN), Xianghua Lin (Ge Lian Corporation, CN)

Session 2: Application Researches (06/29 Friday, 14:10-15:20; Room 5)

15 minutes for each paper.

A Business-Oriented Schema for Blockchain Network Operation (ICBC2018-9021)

Sheng He (Kingdee & Research Institute of Web Information Tsinghua University, China), Chunxiao Xing (Research Institute of Web Information Tsinghua University, China), Liang-Jie Zhang (Kingdee Research of Kingdee International Software Group Company Limited., China)

Your Device and Your Power, My Bitcoin (ICBC2018-9022)

Song Li (NewSky Security Solutions Inc., US), Scott Wu (NewSky Security Solutions Inc., US)

Blockchain in Global Trade (ICBC2018-9023)

Jack Duan (Gliding Eagle, Inc., US), Milan Patel (IBM, US)

2018 World Congress on Services (SERVICES 2018)

SERVICES Research Track

Session 1: Cloud Services (06/29 Friday, 8:15-9:15; Room 2)
20 minutes for each paper.

A conceptual framework of security requirements in multi-cloud environment (SERVICES2018-0016)
Hamad Witti (Magellan Lab IAE, University Jean Moulin Lyon 3 France), Chirine Ghedira Guegan (University of Lyon, IAE CNRS, LIRIS, UMR5205 France), Elhadj Benkhelifa (Staffordshire University College Road, Stoke on Trent, UK)

ICSD: Integrated Cloud Services Dataset (SERVICES2018-0017)
Samar SH. Haytamy (Fayoum University, Egypt), Hesham A. Kholidy (Mississippi State University, US), Fatma A. Omara (Cairo University, Egypt)

SERVICES Applications Track

Session 1: Web Services (06/26 Tuesday, 14:40-15:50; Room 5)
20 minutes for each paper.

RSA Cryptosystem based on Early Word Based Montgomery Modular Multiplication (SERVICES2018-0018)
Rupali Verma (Punjab Engineering College, India), Maitreyee Dutta (NITTTR Chandigarh, India), Renu Vig (UIET Panjab University Chandigarh, India)

Pre-Patch: Find Hidden Threats in Open Software Based on Machine Learning Method (SERVICES2018-0019)
Mutian Yang (Institute of Software, Chinese Academy of Sciences, CN), Jingzheng Wu (Institute of Software, Chinese Academy of Sciences, CN), Shouling Ji (College of Computer Science and Technology, Zhejiang University, CN), Tianyue Luo (Institute of Software, Chinese Academy of Sciences, CN), Yanjun Wu (Institute of Software, Chinese Academy of Sciences, CN)

CVTron Web: A Versatile Framework for Online Computer Vision Services (SERVICES2018-0020)
Yingying Chen (Shenzhen University, CN), Xiaozhe Yao (Shenzhen University, CN)

Session 2: Cloud and Related Services (06/29 Friday, 8:15-9:15; Room 3)

Using Join Operation in Relational Database to Composite Web Services (SERVICES2018-0021)
Xuan Yang (College of Informatics, Huazhong Agricultural University, CN), Jianxiao Liu (College of Informatics, Huazhong Agricultural University, CN)

Cloud Migration Tools: Overview and Comparison (SERVICES2018-0022)
Awatef Balobaid (Oakland University, US), Debatosh Debnath (Oakland University, US)

Index Recommendation Algorithm based on Louvain Algorithm with the Popularity of Keywords (SERVICES2018-0023)
Li Siyao (Beijing University of Posts and Telecommunications, CN), Lin Rongheng (Beijing University of Posts and

Telecommunications, CN), Zou Hua (Beijing University of Posts and Telecommunications, CN)

Session 3: Cloud Service Composition (06/29 Friday, 9:25-10:25; Room 3)
20 minutes for each paper.

Cloud Resource Allocation Based on Historical Records: An Analysis of Different Resource Estimation Functions (SERVICES2018-0024)

Qi Hu (Carleton University, Canada), Mohammad Aazam (Carleton University, Canada), Marc St-Hilaire (Carleton University, Canada)

An Evolutionary Multitasking Algorithm for Cloud Computing Service Composition (SERVICES2018-0025)

Liang Bao (XiDian University, CN), Yutao Qi (XiDian University, CN), Mengqing Shen (XiDian University, CN), Xiaoxuan Bu (XiDian University, CN), Jusheng Yu (XiDian University, CN), Qian Li (Xi'an Jiaotong University, CN), Ping Chen (XiDian University, CN)

SERVICES Short Paper Track

Session 1: Application Services (06/29 Friday, 10:50-12:00; Room 3)
15 minutes for each paper.

A Trust-based Prediction Approach for Recommendation System (SERVICES2018-0026)

Peng Wang (Nanjing University of Posts and Telecommunications, CN), Haiping Huang (Nanjing University of Posts and Telecommunications, CN), Jie Zhu (Nanjing University of Posts and Telecommunications, CN), Lingtao Qi (Nanjing University of Posts and Telecommunications, CN)

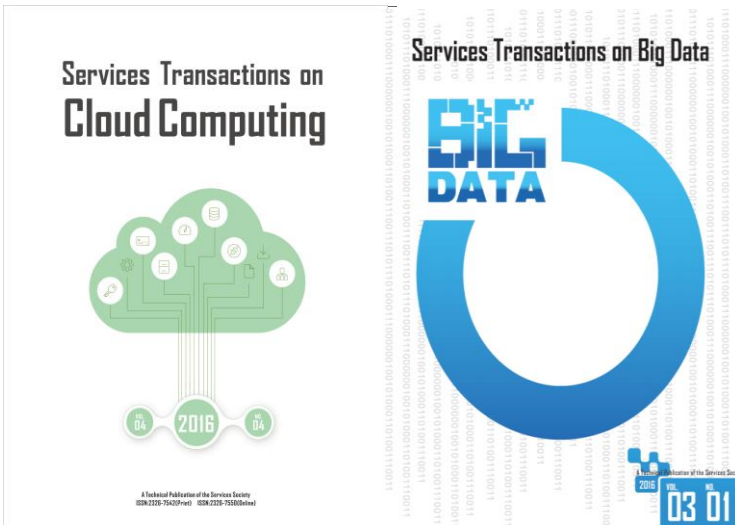**A Concurrent Recommender System Based On Social Network** (SERVICES2018-0027)

Rachael Chertok (Ramapo College of New Jersey, US), Nicholas Cockcroft (Ramapo College of New Jersey, US), Sourav Dutta (Ramapo College of New Jersey, US)

MP-RA: Towards a Model-driven and Pattern-based Risk Analysis of e-service Fraud (SERVICES2018-0028)

Ahmed Seid Yesuf (Goethe University Frankfurt, Germany)

Journals on Services Innovations

The *Services Transactions* series journals only consider extended papers of reputable conferences and invited articles from leading reserachers and practitioners in the field.

Services Transactions on Services Computing (STSC, ISSN 2330-4472)
http://www.hipore.com/stsc
The *Services Transactions on Services Computing (STSC)* covers state-of-the-art technologies and best practices of Services Computing, as well as emerging standards and research topics which would define the future of Services Computing.

Services Transactions on Cloud Computing (STCC, ISSN 2326-7550)
http://www.hipore.com/stcc
The *Services Transactions on Cloud Computing (STCC)* is a refereed, international publication featuring the latest research findings and industry solutions involving all aspects of cloud computing. STCC's major topics include but not limited to architecture, modeling, development, deployment, analytics, optimization, outsourcing, delivery model, consulting, and solutions of Cloud Computing.

Services Transactions on Big Data (STBD, ISSN 2326-442X)
http://www.hipore.com/stbd
The *Services Transactions on Big Data (STBD)* aims to provide the first Public Access publication channel for all authors working in the field of all aspects of Big Data. STBD's major topics include but not limited to architecture, modeling, development, deployment, analytics, optimization, outsourcing, delivery model, consulting, and solutions of big data.

Services Transactions on Blockchain (STBC, ISSN 2577-7238 Print, 2577-7246 Online)
http://www.hipore.com/stbc
The *Services Transactions on Blockchain (STBC)* aims to provide the first Public Access publication channel for all authors working in the field of all aspects of Blockchain. STBC's major topics include but not limited to enabling technologies, applications, and standards of blockchain.

International Journal of Web Services Research (JWSR)
http://www.igi-global.com/journal/international-journal-web-services-research/1079

International Journal of Business Process Integration and Management (IJBPIM)
http://www.inderscience.com/jhome.php?jcode=ijbpim

Services Society

The Services Society (S2) is a non-profit professional organization that has been created to promote worldwide research and technical collaboration in services innovations among academia and industrial professionals. Its members are volunteers from industry and academia with common interests. S2 is registered in the USA as a "501(c) organization", which means that it is an American tax-exempt nonprofit organization. S2 collaborates with other professional organizations to sponsor or co-sponsor conferences and to promote an effective services curriculum in colleges and universities. The S2 initiates and promotes a "Services University" program worldwide to bridge the gap between industrial needs and university instruction. The Services Society has formed 10 Special Interest Groups (SIGs) to support technology and domain specific professional activities.

The Services Society has been sponsoring various international conferences such as the International Conference on Web Services (ICWS), International Conference on Services Computing (SCC), World Congress on Services (SERVICES), International Conference on Cloud Computing (CLOUD), International Conference on AI and Mobile Services (MS), International Congress on Big Data (BigData Congress), International Conference on Internet of Things (ICIOT), International Conference on Cognitive Computiong (ICCC), International Conference on Edge Computing (EDGE) and International Conference on Blockchain (ICBC).

The Services Society is a technical sponsor of a series of international journals such as Services Transactions on Big Data (STBD, http://www.hipore.com/stbd), Services Transactions on Cloud Computing (STCC, http://www.hipore.com/stcc), Services Transactions on Services Computing (STSC, http://www.hipore.com/stsc), and Services Transactions on Blockchain (STBC, http://www.hipore.com/stbc).

S2 also offers volunteer services to support conferences and builds professional communities like special interest groups, local chapters, Services Society Young Scientist Forum (SSYSF). The SSYSFs have been proactive in helping organizing Services Conference Federation (SCF) satellite sessions and other professional activities.

In 2013, the *YouthLancer Foundation* was founded to proof read papers for professors or researchers whose native language is not English. As an organization composed entirely of volunteers, there is no charge for correcting papers.

The Services Society opens to everyone, 7/24!

Introduction of Big Data Certification

http://www.servicessociety.org/

Big Data includes but not limited to Data as A Service (DaaS), massive data, related technologies, and applications. Nowadays, professionals from academia and industry are exploring potential values of big data in various scenarios. New computing platforms such as Cloud Computing, Mobile Internet, and Social Networking are leveraged to create innovations around big data.

Services Society (S2) has been leading the platform of exchanging information and knowledge on the latest service-centric technologies and solutions. In order to address the shortage of Big Data professionals, Services Society led the creation of Body of Knowledge on Big Data (BoK-BD) in 2014.

Based on the first version of BoK-BD, Services Society launched International Certification Program for Big Data professionals (ICP4BD), which includes the following two certification categories.

>>*Category 1: Big Data for Job Positions*

1.1 Big Data Business Analyst (BDBA)
Key Skills: data warehouse, data minning, machine learning, data analysis algorithm, requirement-driven data modeling, data-driven business decision making

1.2 Big Data Engineer (BDE)
Key Skills: distributed system (e.g. Hadoop, Hive, Storm, Spark), scalable database programming, Web programming, mobile programming

1.3 Big Data Architect (BDA)
Key Skills: data warehouse design, cloud storage, computing architecture (e.g. SOA, Cloud), ETL architecture, distributed system architecture (e.g. Hadoop, Hive, Storm, Spark), system redesign, and independent product design.

Key Requirements for Category 1:
1). 5 years working experience in related areas;
2). Completed related scores (e.g. scores from selected MOCC courses, scores derived from published research journals);

>>*Category 2: Big Data for Professional Grade*

2.1 Certified Big Data Professional (CBDP)
With this certificate, you can serve as a chief architect, or data scientist in an organization.

Key Requirements for Category 2:
1). 5 years working experience;
2). Completed at least two certificates defined in Category 1;
3). Completed related scores (e.g. scores from selected MOCC courses, scores derived from published research journals);
4). 3 references from CBDP holders or at least 2 references from the program committee of ICWS, SCC, CLOUD, BigData Congress, SERVICES, S2 ICIOT, or editorial board members from the Services Transactions on Big Data, Services Transactions on Cloud Computing, Services Transactions on Services Computing, Services Transactions on Internet of Things, and Services Transactions on Blockchain.

Services Society
Special Interests Groups (SIGs)

The Services Sector has account for 79.5% of the GDP of United States in 2016. The world's most services-oriented economy, with services sectors accounting for more than 90% of GDP. To rapidly respond to the changing economy, the Technical Activities Board at the Services Society (http://ServicesSociety.org/) has launched a selection procedure among our worldwide Services Innovations Community volunteers to elect Chairs for the newly created Special Interest Groups (SIGs).

List of SIGs

Special Interest Group on Web Services (SIG-WS)
Special Interest Group on Services Computing (SIG-SC)
Special Interest Group on Services Industry (SIG-SI)
Special Interest Group on Big Data (SIG-BD)
Special Interest Group on Cloud Computing (SIG-CLOUD)
Special Interest Group on Artificial Intelligence (SIG-AI)
Special Interest Group on Edge Computing (SIG-EC)
Special Interest Group on Cognitive Computing (SIG-CC)
Special Interest Group on BlockChain (SIG-BC)
Special Interest Group on Internet of Things (SIG-IOT)

Services Confererence Federation

As the first event of Services Conference Federation (SCF), the 2003 International Conference on Web Services (ICWS 2003) was conceived in June 2003 in Las Vegas, USA. Meanwhile, the First International Conference on Web Services - Europe 2003 (ICWS-Europe'03) was held in Germany in Oct, 2003. ICWS-Europe'03 is an extended event of the 2003 International Conference on Web Services (ICWS 2003) in Europe. In 2004, ICWS-Europe was changed to the European Conference on Web Services (ECOWS), which was held at Erfurt, Germany.

To celebrate its 16-year-old birthday, ICWS 2018 will be held on June 25 - June 30, 2018, Seattle, USA. In the past 15 years, ICWS community has been expanded from Web engineering innovations to scientific research for the whole services industry. The service delivery platforms have been expanded to mobile platforms, Internet of Things, cloud computing, and edge computing. The services ecosystem is gradually enabled, value added, and intelligence embedded through enabling technologies such as big data, artificial intelligence, and cognitive computing. In the coming years, all the transactions with multiple parties involved will be transformed to blockchain.

Based on the technology trends and best practices in the field, the Services Conference Federation (SCF) has been used as a conference umbrella's code name for all services-related conferences. Today, we are very proud to announce that SCF 2018's 10 co-located theme topic conferences will all center around "services", while each focusing on exploring different themes (web-based services, cloud-based services, Big Data-based services, services innovation lifecycle, AI-driven ubiquitous services, blockchain driven trust service-ecosystems, industry-specific services and applications, and emerging service-oriented technologies). SCF 2018 will be held on June 25 - June 30, 2018, Seattle, USA.
====== Appendix 1: Member of SCF 2018 ======

Services Conference Federation (SCF) includes 10 service-oriented conferences: ICWS, CLOUD, SCC, BigData Congress, AIMS, SERVICES, ICIOT, EDGE, ICCC and ICBC.

[1] 2018 International Conference on Web Services (ICWS 2018, http://icws.org/2018) is the flagship theme-topic conference for Web-based services, featuring Web services modeling, development, publishing, discovery, composition, testing, adaptation, delivery, as well as the latest API standards.

[2] 2018 International Conference on Cloud Computing (CLOUD 2018, http://thecloudcomputing.org/2018) is the flagship theme-topic conference for modeling, developing, publishing, monitoring, managing, delivering XaaS (everything as a service) in the context of various types of cloud environments.

[3] 2018 International Congress on Big Data (BigData Congress 2018, http://bigdatacongress.org/2018) is the emerging theme-topic conference for quantitative analysis of impact on business insights from Big Data analytics.

[4] 2018 International Conference on Services Computing (SCC 2018, http://thescc.org/2018) is the flagship theme-topic conference for services innovation lifecycle that includes enterprise modeling, business consulting, solution creation, services orchestration, services optimization, services management, services marketing, business process integration and management.

[5] 2018 International Conference on AI & Mobile Services (AIMS 2018, http://ai1000.org/2018) is the emerging theme-topic conference for the science and technology of artificial intelligence, and the development, publication, discovery, orchestration, invocation, testing, delivery, and certification of AI-enabled services and mobile applications.

[6] 2018 World Congress on Services (SERVICES 2018, http://servicescongress.org/2018) puts its focus on emerging service-oriented technologies and the industry-specific services and solutions.

[7] 2018 International Conference on Cognitive Computing (ICCC 2018, http://thecognitivecomputing.org/2018) puts its focus on the Sensing Intelligence (SI) as a Service (SIaaS) that makes system listen, speak, see, smell, taste, understand, interact, and walk.

[8] 2018 International Conference on Internet of Things (ICIOT 2018, http://iciot.org/2018) puts its focus on the creation of Internet of Things technologies and development of IOT services.

[9] 2018 International Conference on Edge Computing (EDGE 2018, http://theedgecomputing.org/2018/) puts its focus on the state of the art and practice of edge computing including but not limited to localized resource sharing and connections with the cloud.

[10] 2018 International Conference on Blockchain (ICBC 2018, http://blockchain1000.org/2018/) concentrates on blockchain-based services and enabling technologies.

====== Highlights of SCF 2018 ======

-- Bigger Platform: The he 10 collocated conferences (SCF 2018) get sponsorship from the Services Society which is the largest not-for-profits organization (501 c(3)) dedicated for serving more than 30,000 worldwide researchers and practitioners. Bigger platform means bigger opportunities to all volunteers. Meanwhile, Springer provides sponsorship to best paper awards and other professional activities. All the 10 conference proceedings will be published by Springer and indexed in ISI Conference Proceedings Citation Index (included in Web of Science), Engineering Index EI (Compendex and Inspec databases), DBLP, Google Scholar, IO-Port, MathSciNet, Scopus, and ZBlMath.

-- Brighter Future: SCF launches the First International Conference on Blockchain (ICBC 2018) to build the fundamental infrastructure for enabling secure and trusted services ecosystems. It will also lead our community members to create their own brighter future.

-- Better Model: SCF 2018 leverages the invented Conference Blockchain Model (CBM) to innovate the organizing practices for all the 10 theme conferences. Senior researchers in the field are welcome to submit proposals to serve as CBM Ambassador for an individual conference to start better interactions during your leadership practices for organizing SCF 2018.

SCF 2018 Satellite Session
(June 1, 2018, Shenzhen, China)

The China Big Data Industry Summit organized by the Services Society is the earliest big data industry summit in China. Since 2013, it had been successfully held in Shenzhen China for five times, becoming one of the top technology and business events in the Internet big data field. Previous conferences attracted a large number of industry elites, authoritative experts in the field of Internet big data, and outstanding entrepreneurs to discuss and exchange Internet big data and related fields, to share the industry's latest trends, trends, and experiences, and had aroused strong reactions in the industry, becoming a platform for practitioners and entrepreneurs in big data related industries to interact and connect with each other.

The 2nd China Big Data Industry Summit

The 3rd China Big Data Industry Summit

The 4th China Big Data Industry Summit

The 5th China Big Data Industry Summit

The 6th China Big Data Industry Summit (2018) with the theme of "New Artificial Intelligence, Blockchain, and Cloud Computing (New ABC)" was successfully held on June 1 2018 in Shenzhen, China. This year, the event attatracted more than 600 attendees from all over the world. The event, organized by Shenzhen Global Experts Federation (GEF), serves as a satellite conference for SCF2018, aiming to provide a platform for resource exchging and learning for various industry practitioners and entrepreneurs working on the field of big data, and to share the latest technology and industry development trends, to learn from the successful experience of advanced companies, to connect quality resources, to leverage big data promoting the overall development of social technology, industry, and even the economy.

The 6th China Big Data Industry Summit, 2018

Conference Banquet

TBD

Conference Room Floor Plan

TBD