

IEEE BigDataService 2017, URL: <http://big-dataservice.net/>

April 6, 5:00pm – 8:00pm Conference Registration in the Hotel Lobby.

IEEE BigDataService 2017 Conference Room: PENN I Date: (Friday) April 7, 2017

7:00am – 6:00pm	Registration	
7:30am – 8:30am	Breakfast	
8:30am - 9:15am	Opening Remarks (IEEE SOSE2017/IEEE MobileCloud 2017/IEEE BigDataService 2017) Taghi Khoshgoftaar, Jerry Gao, Simon Shim, Latifur Khan, and YiFeng Cheng	
9:15am – 10:00am	Keynote #1: Speaker: Professor Ling Liu, Georgia Institute of Technology Title: Internet of Things and Services Computing: A Marriage Made in Big Data	Session Chair: Latifur Khan (Room: PENN I and PENN II)
10:00am-10:30am	Break	
10:30am-12:00pm	Session 1: Intelligent Data Mining	
	Session Chair: Simon Shim (Room: PENN I)	
	Paper ID	Title
	(26)	Enhanced Over Sampling Techniques for Handling Imbalanced Big Data Set Classification
(24)	Improved Sentiment Classification by Multi-modal Fusion	Lige Gan, Richard Khoury and Rachid Benlamri
(28)	Towards Automatic Linkage of Knowledge Worker's Claims with Associated Evidence from Screenshots	Paul Jones
12:0pm-1:00pm	Lunch	
1:00pm-2:00pm	Keynote #2: Speaker: Professor Bin Yu, UC Berkeley Title: Mobile Cloud and Data, One Telekom Perspective	Session Chair: Jerry Gao (Room: PENN I and PENN II)
2:00 pm – 2:15pm	Break	
2:15pm-3:30pm	Session 2: Frameworks for big data processing	
	Session Chair YiFeng Zeng (Room: PENN I)	
	Paper ID	Title
	(34)	CaPaR: A Career Path Recommendation Framework
(46)	IRIS:A Goal-Oriented Big Data Analytics Framework Using Spark for Aligning with Business	Grace Park, Lawrence Chung, Liping Zhao and Sam Supakkul
(37)	When Rule Engine meets Big Data: Design and Implementation of a Distributed Rule Engine using	Jindou Zhang, Jinxing Yang and Jing Li
3:30m-4:00pm	Break	
4:00pm-6:00pm	Session 3: Big Data Processing and Mining	
	Session Chair: Magdalini Eirinaki (Room: PENN I)	
	Paper ID	Title
	(22)	Balanced Parallel Frequent Pattern Mining Over Massive Data Stream
	(38)	Data Allocation of Large-scale Key-Value Store System using Kinetic Drives
(48)	Scaling Collaborative Filtering to large-scale Bipartite Rating Graphs using Lenskit and Spark	Christos Sardianos, Iraklis Varlamis and Magdalini Eirinaki
(30)	Small Boxes Big Data: A Deep Learning Approach to Optimize Variable Sized Bin Packing	Feng Mao, Edgar Blanco and Anurag Gupta

6:30pm-8:00pm	<b>Reception</b>
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**IEEE BigDataService 2017 Conference Room: Executive, Date: (Friday) April 7, 2017**

10:30am-12:30pm	<b>Smart City Big Data Workshop Session 1: Smart City Big Data</b>		<b>Session Chair: Katerina Potika (Room: Executive)</b>
	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>
	(16)	Viral Marketing for Smart Cities: Influencers in Social Network Communities	Madhura Kaple, Ketki Kulkarni and Katerina Potika
	(7)	A Deep Learning Framework for Smart Street Cleaning	Chandni Balchandani, Rakshith Koravadi Hatwar, Parteek Makkar, Yanki Shah, Pooja Yelure and Magdalini Eirinaki
	(8)	Smart Dairies – Enablement of Smart City At Gross Root Level	Sharat Kedari, Anitha Ilapakurti, Santosh Kedari, Jayashankar Vuppalaoti and Ananth Ilapakurthy
	(1)	iDispenser - Big Data Enabled Intelligent Dispenser	Chandrasekar Vuppalapati, Anitha Ilapakurti, Santosh Kedari, Jayashankar Vuppalapati and Shrat Kedari
12:30pm–1:30pm	<b>Lunch</b>		
	<b>Session #4: Big Data Analysis</b>		<b>Session Chair: Jerry Gao</b>
2:15pm - 3:30pm	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>
	(16)	MD-Miner: Behavior-Based Tracking of Network Traffic for Malware-Control Domain Detection	Jia-Hao Sun, Tzung-Han Jeng, Chien-Chih Chen, Hsiu-Chuan Huang and Kuo-Sen Chou
	(15)	Impact of core charging station's cease operation in the entire charging station system: a case study in Shenzhen	<b>Lai Tu</b>
	(40)	On Building a Big Data Analysis System for California Drought	Pengcheng Zhang and Jerry Gao
3:30pm-4:00pm	<b>Break</b>		

**IEEE BigDataService 2017 Rooms: PENN I Date: (Saturday) April 8, 2017**

7:30am-6:00pm	<b>Registration</b>		
7:30am-8:30am	<b>Breakfast</b>		
8:30am-9:30am	<b>Keynote #3: Speaker: Dr. Roch H. Glitho Associate Professor and Canada Research Chair, Concordia University, Montreal, Canada Title: Augmenting Clouds with NFV and Fogs for Cost Efficient, Agile and QoE - Enabled IoT Applications and Services Provisioning</b>		<b>Session Chair: Hiroyuki Sato (Room: PENN I and PENN II)</b>
9:20am-9:30am	<b>Break</b>		
9:30am-11:00am	<b>Session 4: Data Analytics and Visualization (Room: PENN I)</b>		<b>Chair: Yifeng Cheng</b>
	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>
	(31)	Engineering Scalable Distributed Services for Real-Time Big Data Analytics	Sahar Jambi and Kenneth Anderson
	(7)	Answering How-to-Reach Query in Big Attributed Graph Databases	Kawai Yung
	(41)	Visualization Techniques for Electrical Grid Smart Metering Data: A Survey	Maria Stefan, Rasmus Løvenstein Olsen, Jose Gutierrez Lopez and Morten Henius Andreasen

11:00am-11:15am	<b>Break</b>		
11:15am-12:30am	<b>Session 5: Big Data Application</b>		<b>Chair: Simon Shim (Room: PENN I)</b>
	<b>Paper ID</b>	<b>Title</b>	<b>Authors</b>
	(42)	Aseel Alkhelaiwi and Dan Grigoras Data Reduction as a Service in Smart City Architecture	Aseel Alkhelaiwi and Dan Grigoras
	(32)	Wind Farm Operation And Maintenance Optimization Using Big Data	Jan Helsen, Peter Doro, Cédric Peeters, Eveline Ververs and Pieter Jan Jordaens
	(21)	Automated Medical Diagnosis from Clinical Data	VISHNU PENDYALA
12:30pm-1:30pm	<b>Lunch</b>		
1:30pm - 2:30pm	<b>Keynote #4: (Room: PENN I) Speaker: Kwei-Jay Lin, University of California, Irvine, USA Title: Building Smart Homes and Buildings using Service-Oriented Things</b>		<b>Session Chair: Omer Rana (Room: PENN I and PENN II)</b>
2:30pm- 4:00pm	<b>Break</b>		
	<b>Section : Big Data Framework, Technology, and Solutions</b>		<b>Chair: Taghi M. Khoshgoftaar (Room: PENN I)</b>
	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>
	(44)	Distributed Multi-Exemplar Affinity Propagation Based on MapReduce	Yu-Bo Yang
	(11)	Cognitive Navigation System for People with Special Needs	Akhila Kishore, Anhad Bhasin, Arun Balaji Sivasubramanian,
	(39)	Transparent Link: A Framework of Anonymizing MSA-Dataset based on Probabilistic Graphical Model	i-E Wang, Yameng Guo and Xianxian Li
4:00pm - 4:30pm	<b>Break</b>		
	<b>Section: Invited Paper Session I</b>		<b>Chair: Taghi Khoshgoftaar (Room: Executive)</b>
4:30pm - 6:30pm	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>
	(52)	An advanced Inventory Data Mining System for Business Intelligence	Qifeng Zhou and Tao Li
	(54)	A Review of Performance Evaluation on 2D Face Databases	Gabriel Castaneda and Taghi Khoshgoftaar
	(55)	Data-driven Water Quality Analysis and Prediction: A Survey	Gaganjot Kang, Jerry Zeyu Gao and Gang Xie
	(59)	PROV-TE: A Provenance-Driven Diagnostic Framework for Task Eviction in Data Centers	Abdulaziz Albatli, David McKee, Paul Townend, Lydia Lau and Jie Xu
7:00pm-8:30pm	<b>Banquet (Dinner)</b>		

**IEEE BigDataService 2017    Conference Room:    PENN I    Date: (Sunday) 9, 2017**

7:30am-6:00pm	<b>Registration</b>		
7:30am-8:30am	<b>Breakfast</b>		
8:30am-9:15am	<b>Keynote #5: Speaker: T Peter Ruppel, Technische University at Berlin, Germany Title: Mobile Cloud Computing and Operations</b>		<b>Session Chair: Cristian Borcea (Room: PENN I and PENN II)</b>
9:15am – 9:30m	<b>Break</b>		
9:30am-11:00am	<b>Big data Security and Service Workshop Session 1: Security Services for Smart City</b>		<b>Chair: Younghee Park (Room: PENN I)</b>
	<b>Paper ID</b>	<b>Paper Title</b>	<b>Authors</b>

	(23)	Smart City Service Acceleration on FPGAs	Youngsoo Kim, Marcus Garcia, Alan Chen, Nathan Wong, Shrikant Jadhav, and Clay S. Gloster
	(21)	Analyzing Movie Scripts as Unstructured Text	Seong-Ho Lee Hye-Yeon Yu, and Yun-Gyung Cheong
	(19)	Smart Illegal Dumping Detection	Akshay Dabholkar, Bhushan Muthiyani, Shilpa Srinivasan, Swetha Ravi and Hyeran Jeon
	(20)	Intelligent Learning Systems Design for Self-Defense Education	Hyeran Jeon, Kaikai Liu, Younghee Park, Jerry Gao, Gong Chen and Jim Kao
11:00am-11:15am	<b>Break</b>		
11:15am-12:30pm	<b>Big Data Security and Service Workshop Session 2: Big Data For Security</b>		<b>Session Chair: Youngsoo Kim (Room: PENN I)</b>
	Paper ID	Paper Title	Authors
	(17)	Big Data Cloud Deduplication based on Verifiable Hash Convergent Group Signcryption	Ei Mon Cho and Takeshi Koshiba
	(18)	DDoS Attack Mitigation in Internet of Things Using Software Defined Network	M. Ejaz Ahmed and Hyoungshick Kim
	(22)	Graph-theory Based Simplification Techniques for Efficient Biological Network Analysis	Euiseong Ko, Mingon Kang, Hyung Jae Chang and Donghyun Kim
12:30pm-1:30pm	<b>Lunch</b>		
1:30pm-2:30pm	<b>Keynote 6: Hamid Reza Motahari Neshad IBM Almaden Research Center, USA</b>		<b>Session Chair: W. K. Chan (Room: PENN I)</b>
2:30pm-2:45pm	<b>Break</b>		
2:45pm-4:00pm	<b>Big Data Quality Assurance Workshop Session 1: Big Data Quality Assurance and Validation</b>		<b>Session Chair: Hong Zhu (Room: PENN I)</b>
	Paper ID	Paper Title	Authors
	(5)	Big Data Validation Case Study	Chunli Xie, Jerry Gao and Chuanqi Tao
	(10)	A Practical Approach to Validation of Building's Sensor Data: A Commissioning Experience Report	Claudio Giovanni Mattera, Sanja Lazarova-Molnar, Hamid Reza Shaker and Bo Nørregaard Jørgensen.
	(14)	Evolution Slicing-based Change Impact Analysis	Wanzhi Wen, Jianping Chen, Jiaqi Yuan, and Xiaoyong Chen.
4:00pm-4:30pm	<b>Break</b>		
4:30pm-6:00pm	<b>Big Data Quality Assurance Workshop Session 2: Quality Assurance and Validation for Big Data-Based Applications</b>		<b>Session Chair: Chuanqi Tao (Room: PENN I)</b>
	Paper ID	Paper	Authors
	(4)	A Quality Evaluation Approach to Search Engines of Shopping Platforms	Hao Chen, Chuanqi Tao and Jerry Gao.
	(9)	A Viewpoint on Location-Based Mobile Apps Testing	Wajeh Addin Mohsen, Chuanqi Tao
	(13)	A survey on quality assurance techniques for big data applications	Pengcheng Zhang, Xuewu Zhou, Jerry Gao

**2017 International Summit on Smart City and Big Data, Date: (Monday) April 10, 2017  
In Conjunction with IEEE Joint Conferences – 2017 IEEE SOSE/MobileCloud/BigData Service  
Rooms: PENN I and PENN II**

*Program could be found at URL: <http://smart-city-conference.com/BDS2017/index.html>*