

Monday, March 26th – Workshop Day

Time	Room B			Room C		
09:30– 11:15	JCC Joint Cloud Workshop Session I Session Chair: Yijie Wang					
	Workshop Introduction		Donggang Cao			
	JCC-01	Transaction-aware SSD Cache Allocation for the Virtualization Environment	Zhen Tang			
	JCC-02	TZ-KMS: A Secure Key Management Service for Joint Cloud Computing with ARM TrustZone	Shiyu Lou			
	JCC-03	Secure and Efficient In-Hypervisor Memory Introspection Using Nested Virtualization	Weiwen Tang			
11:15 – 11:30	Coffee Break					
11:30 – 13:00	JCC Joint Cloud Workshop Session II Session Chair: Tianyu Wo			Big Data Security Workshop I Session Chair: Euijin Choo		
	JCC-04	DwarfGC: A Space-efficient and Crash-consistent Garbage Collector in NVM for Cloud Computing	Heting Li	BDS-06	Parallelizing Deep Packet Inspection on GPU	Meera Ramesh and Hyeran Jeon.
	JCC-05	Cuckoo Migration: Self Migration on JointCloud Using New Hardware Features	Ruifeng Liu	BDS-02	A Lightweight and Transparent Compensation Mechanism for Fog-Cloud Storage Framework	Donghyun Kim, Euiseong Ko , Junggab Son, Yeojin Kim and Jungtaek Seo.
	JCC-06	PoPF: a consensus algorithm for JCLedger	Peichang Shi	BDS-03	Efficiently Validating Aggregated IoT Data Integrity	Nesrine Kaâniche, Eunjin Jung and Ashish Gehani
13:00– 14:00	Lunch break (Conference)					
14:00 – 16:00	JCC Joint Cloud Workshop Session III Session Chair: Haibo Mi			Big Data Security Workshop II Session Chair: Younghee Park		
	JCC-07	A Scalable Internet-of-Vehicles Service	Mingming Zhang	BDS-04	Securing GPR data for Use in Smart	Hector Suarez , Li Yang

		over Joint Clouds			Cities	and Dalei Wu
	JCC-08	IoT Service Based on JointCloud Blockchain: The Case Study of Smart Travelling	Weili Chen	BDS-05	Analyzing Opinion Spammers' Network Behavior in Online Review Systems	Euijin Choo
	JCC-09	What makes a great Mobile App? A quantitative study using a new mobile crawler	Zexun Jiang	BDS-01	Log-Based Cloud Monitoring System for OpenStack	Vaibhav Agrawal, Devanjal Kotia, Kamelia Moshirian and Mihui Kim
	JCC-10	HCFS2: A File Storage Service with Weak Consistency in the Hybrid Cloud	Jie Sun	BDS-07	Classification of Attack Types for Intrusion Detection Systems using Machine Learning Algorithm	Kinam Park , Youngrok Song and Yun-Gyung Cheong
16:00 – 16:15	Coffee break					
16:15– 18:00	JCC Joint Cloud Workshop Session IV Session Chair: Peichang Shi			Big Data Security Workshop III Session Chair: Mihui Kim		
	JCC-11	A Case of Automatically Deploying and Scaling Out Distributed Systems on the Cloud from Scratch	Yehong Zong	BDS-08	Applying Artificial Immune System for Intrusion Detection	Daniel Hooks, Xiaohong Yuan , Kaushik Roy, Albert Esterline and Joaquin Hernandez
	JCC-12	Comparing Container-based Microservices and Workspace as a Service: Which One to Choose?	Junming Ma	BDS-09	Picture PassDoodle: Usability Study	David Schwab , Lama Alharbi, Oliver Nichols and Li Yang
	JCC-13	A Cluster Feature based Approach for QoS Prediction in Web Service Recommendation	Haibao Mi	<i>Workshop Closing</i>		
	Workshop Closing					
19:30 – 21:00	<i>Bamberg@Night Walk (on demand)</i>					

Tuesday, March 27th									
Time	Room A			Room B			Room C		
09:00– 09:30	Room A: Opening Session								
09:30 – 10:30	Room A: SOSE Invited Talk: Prof. Dr. Holger Giese (Hasso Plattner Institute, Potsdam, Germany): How Models lead from Software Evolution to Self-Adaptive Software and Runtime Models.								
10:30 – 10:45	Coffee Break								
10:45 – 12:15	Big Data Session I			Mobile Cloud Session I			SOSE Session I		
	12	A Mining and Visualizing System for Large-scale Chinese Technical Standards	Chenwei Lu, Deqing Wang, Xin Liu and Keqin Gan	17	Profiling Energy Efficiency of Mobile Crowdsensing Data Collection Frameworks for Smart City Applications	Mattia Tomasoni, Andrea Capponi, et al.	SF-05	Evaluation of Server Push Technologies for Scalable Client-Server Communication	Elton F. de S. Soares, Raphael Melo Thiago, Leonardo Guerreiro Azevedo, Maximilien de Bayser et al.
	32	Key-value Pairs Allocation Strategy for Kinetic Drives	Hebatalla Eldakiky and David Du	12	Next Generation Telecommunications Computing Architecture (NexTCA)	Tai-Hua Hsiao, Chilung Wang and Peng-Kai Hsu.	SF-04	Overcoming Security Challenges in Microservice Architectures	Tetiana Yarygina and Anya Helene Bagge
	10	Potential Malicious Insiders Detection Based on a Comprehensive Security Psychological Model	Guang Yang, Lijun Cai, Aimin Yu and Dan Meng (Video presentation)				SF-06	An Approach for Extracting the Architecture of Microservice-Based Software Systems	Benjamin Mayer
12:15 – 13:15	Lunch break (Conference)								
13:15– 15:15	Big Data Session II			Mobile Cloud Session II			SOSE Visionary Track I		
	30	A Generalized Service Infrastructure for Data Analytics	Jan Frenzel, Yedhu Sastri, Christoph Lehmann, Taras Lazariv, René Jäkel and Wolfgang E. Nagel	15	Elastic Provisioning of Internet of Things Services using Fog Computing: an Experience Report	Alessandro Zanni, Ulf Jennehag, et al.	VT-11	MQTT-Driven Node Discovery for Integrated IoT-Fog Settings Revisited: The Impact of Advertiser Dynamicity	Riccardo Venanzi, Burak Kantarci Luca Foschini, Paolo Bellavista Senior

	45	Scheduling Big Data Workflows in the Cloud under Deadline Constraints	Mahdi Ebrahimi , Aravind Mohan and Shiyong Lu	21	Towards Intelligent Edge Storage Management: Determining and Predicting Mobile File Popularity	Ali Elgazar , Mohammad Aazam, Khaled Harras and Abderrahman Mtibaa.	VT-10	Service-Oriented IoT Modeling and its Deviation from Software Services	I-Ling Yen , Farokh Bastani, Wei Zhu, San-Yih
	16	Performance Characterization of Spark Workloads on Shared NUMA Systems	Shuja-Ur-Rehman Baig , Marcelo Amaral, Jordà Polo and David Carrera	10	An Efficient Dynamic Offloading Approach based on Optimization Technique for Mobile Edge Computing	Kai Guo , Mingcong Yang, Yongbing Zhang and Yusheng Ji.	VT-06	Testing IoT Systems	Jeff Voas , Rick Kuhn, Phil Laplante
	64	Performance Comparison of a SDN Network between Cloud-Based and Locally Hosted SDN Controllers	Muhammad Younas and Kashinath Basu				VT-09	Quality Assurance Problems and Challenges for AI Systems and Unstructured Big Data	Jerry Gao , Shengqiang Lu, Penchen Zhang
15:15 – 15:30									
Coffee break									
15:30 – 17:30	Big Data Session III			Mobile Cloud Session III			SOSE Session II		
	61	Seismic Data Classification using Machine Learning	Wenrui Li and Jerry Gao	34	Design and Implementation of an OpenFlow-based TCP SYN Flood Mitigation	Ryosuke Nagai, Wataru Kurihara, Shun Higuchi and Toshio Hirotsu .	SO-1	Semantic Integration of System Specifications to Support Different System Engineering Disciplines	Alexander Rauh , Stefan Queins and Wolfgang Golubski
	31	Twitter Usage Across Industry: A Spatiotemporal Analysis	Neha Gupta , Henry Crosby, David Purser, Stephen Jarvis and Weisi Guo	11	Comparing Network Performance of Mobile VoIP Solutions	Rafael Dantas , Chris Exton and Andrew Le Gear.	SO-3	Comparing Imperative and Declarative Process Models with Flow Dependencies	Michaela Baumann
58	Scientific Users' Interest Detection and Collaborators Recommendation	Guanyao Du, Yuchun Liu and Jianjun Yu	18	On the deployment of an open-source, 5G-aware evaluation testbed	Luis Tomas Bolivar, Christos Tselios , et al.	SO-4	Supporting Coordination in Crowdsourced Software Testing Services	Manar Alsayyari and Sultan Alyahya	

	51	A Framework for Analyzing Big Social Data and Modelling Emotions in Social Media	Isidoros Perikos and Ioannis Hatzilygeroudis (Video presentation)						
18:30 – 19:45	Reception (Conference)								
20:00 – 21:30	Bamberg@Night Walk								

Wednesday, March 28th									
Time	Room A			Room B			Room C		
09:00 – 10:00	Room A: Mobile Cloud Invited Talk: Prof. Dr. Cristian Borcea (New Jersey Institute of Technology, Newark, USA): Distributed Mobile Cloud Computing with Avatars								
10:00 – 10:15	Coffee Break								
10:15 – 12:15	Big Data Session IV			Mobile Cloud Session IV			SOSE Session III		
	26	From Photos to Travel Itinerary: A Tourism Recommender System for Smart Tourism Destination	Mickaël Figueredo , José Lucas Ribeiro, Nélio Cacho, Antônio Thomé, Andrea Cacho, Frederico Lopes and Valéria Araújo	29	User Preference Recommendation on Mobile Car Parking Application	Benjawan Srisura , Charoenkeith Wan et al.	SF-1	VTDL: A Notation for Data Stream Processing Applications	Christoph Hochreiner , Stefan Schulte , Schahram Dustdar, et al.
	20	HTARF: A Hybrid Tourist Attraction Recommendation Framework for Trip Scheduling	Yuanfeng Gong , Yushun Fan, Bing Bai, Junqi Zhang, Zhenfeng Gao and Xing Wu	26	Device-Specific Linux Kernel Optimization for Android Smartphones	Pengfei Yuan, Yao Guo , Xiangqun Chen and Hong Mei.	SF-2	A data distribution service for cloud and containerized storage based on information dispersal	Miguel Ángel Santiago Durán , José Luis González Compeán and Victor J. Sosa-Sosa
	23	ASSR: An Adjustable Scenic Spot Rating System Based on Travel Note Mining	Xiaowen Mei , Yushun Fan, Junqi Zhang, Bing Bai and Zhenfeng Gao	14	Runtime Computation of Optimal Offloading Scheduling	Andrea Morichetta , Barbara Re and Francesco Tiezzi.	SF-3	A Hybrid Approach for Predicting Aging-Related Failures of Software Systems	Jingwei Li , Yong Qi and Lin Cai
	63	Visual analysis of sensor logs in smart spaces: Activities vs.	Francesco Leotta , Massimo Mecella and Daniele Sora	13	Experimental Study of Video Fusion for Multi-View Video	Jie Wang, Shuquan Yang , Weizhan Zhang,	SF-7	An Ensemble Signature-based Approach for Performance Diagnosis in Big Data Platform	Hong Kou

		situations			Streaming in Mobile Media Cloud	Junquan Liu, Xie Kong and Qinghua Zheng.			
12:15 – 13:15	Lunch break (Conference)								
13:15 – 15:15	Big Data Session V			Mobile Cloud Session V			Big Data Session VI		
	59	A Relationship Between Fines and Violent Crimes	Samuel Smith , Kedar Gangopadhyay, Simranjyot Singh Gill and Suzanne McIntosh	24	Collaborative Offloading for Distributed Mobile-Cloud Apps	Hillol Debnath, Cristian Borcea et al.	46	Back to the Bazaar: deconstructing the Data Mall	Massimo Marchiori
	1	An Evacuation Management framework based on urban data & personalized mobility information	Alexandros Zamichos, Traianos Theodorou, Anastasios Drosou and Dimitrios Tzovaras	19	A Generalized Nash Game for Mobile Edge Computation Offloading	Daniel Nowak , Tobias Mahn, et al.	38	Smart City Data Storage Optimization in the Cloud	Aseel Alkhelaiwi and Dan Grigoras
	42	Macroscopic Patterns in Sparse Location Data: Identifying Mobility Prototypes	Bianca Katharina Lüders and Peter Ruppel	31	CU Flipped Smart Application: A Learning Tool for 21st Century Learners	Jintavee Khlaisang	8	A Home Rehabilitation Comprehensive Care System for Patients with COPD Based on Comprehensive Care Pathway	Guanzhong Yang, Chuifeng Kong and Qinpeng Xu
	33	Smart City architecture for data ingestion and analytics: processes and solutions	Paolo Nesi , Pierfrancesco Bellini, Michela Paolucci and Imad Zaza				29	NDN Log Analysis using Big Data Techniques: NFD Performance Assessment	Junior Dongo , Charif Mahmoudi and Fabrice Mourlin
15:15 – 15:30	Coffee break								
15:30 – 17:30	Big Data Session VII			Mobile Cloud Session VI (Poster)			SOSE Visionary Track II		
	48	Micro-blog Friend-Recommendation Based on Topic Analysis And	Jidi Wang , Shengxiang Gao, Li-Ren Wang and Zhengtao Yu	33	SNS Agency Robot for Elderly People Realizing Rich Media	Toru Kobayashi , Koushin	VT-08	Detecting present events to predict future: Detection and evolution of events on Twitter	Muhammad Ali Yousuf, Lu Liu , Mohsen Farid;

		Circle Found			Communication	Kuriyama et al.			
	53	A Fast and Accurate Retina Image Verification Method based on Structure Similarity	Xiaohui Yuan , Tian Chen, Wencheng Wang and Lichuan Gu.	35	F2C-Aware: Enabling discovery in Wi-Fi-powered Fog-to-Cloud (F2C) systems	Zeineb Rejiba , Xavi Masip-Bruin, et al.	VT-02	Adaptive Policy Evaluation Framework for Flexible Service Provision	Sato, Hiroyuki Tanimoto, Shigeaki Kobayashi, Toru Kanai
	14	The Secure Vehicle-to-Vehicle and Vehicle-to-Group Communication Mechanisms in Smart City	Hua Yi Lin , Meng-Yen Hsieh and Kuan-Ching Li				VT-01	Intelligent Resource Scheduling at Scale: a Machine Learning Perspective	Renyu Yang
	15	Single Neuron PID Control of Agricultural Robot Steering System Based on Online Identification	Jiao Jun, Chen Jing, Qiao Yan, Wang Wenzhou, Wang Chao and Gu Lichuan				VT-07	Blockchain Applications to Financial Systems	W. T. Tsai
17:30 – 18:15	<i>Room A: Planning Session for 2019 Conferences</i>								
19:00 – 22:00	<i>Conference Dinner</i>								

Thursday, March 29th									
Time	Room A			Room B			Room C		
09:00 – 10:00	Room A: Big Data Services Invited Talk: Prof. Dr. Wei-Tek Tsai (Beihang University, Beijing, China/Arizona State University, Phoenix, USA): TBA								
10:00 – 10:15	Coffee Break								
10:15 – 12:15	Big Data Session VIII			Big Data Session IX			SOSE Visionary Track III		
	5	From data points to ampacity forecasting: Gated Recurrent Unit networks	Nicholas Popovic , Gabriela Molinar and Wilhelm Stork	44	Reducing data stream complexity by applying Count-Min algorithm and discretization procedure	Sabina Šišović, Marija Brkic Bakaric and Maja Matetic	VT-03	Traffic Differentiation on Internet of Things	Thiago Garrett , Schahram Dustdar , Luis C. E. Bona, Elias P. et al.
	18	Authoritative Prediction of Website Based on Deep Learning	Haihua Yang and Yangde Feng	28	A novel Split-merge-evolve k clustering algorithm	Mingxue Wang, Vincent Huang and Anne-Marie Cristina Bosneag	VT-05	If Docker is the answer, what is the question? — A case for software engineering paradigm shift toward service agent organization	Hong Zhu , Ian Bayley
	13	A Novel Method of Overrun Risk Measurement and Assessment using Large Scale QAR Data	Hao Lv, Jianjun Yu and Tongyu Zhu	62	Knee/Elbow estimation based on first derivative threshold	Mário Antunes , Diogo Gomes and Rui Aguiar	VT-04	Opportunities and Challenges Towards Cognitive IT Service Management in Real World	Fan Jing Meng , Jingming Xu, Xiao Zhang, Lin Yang1, Yuan Wang, Xiaoxi Liu, et al.
			57	Word Network Topic Model Based on Word2Vector	Mingyi Jiang , Rui Liu and Fei Wang				
12:15 – 13:15	Lunch break (Conference)								
13:15 – 13:30	Closing Session – End of Conference								