_			rch 26 th – Worksho	p Day							
Time		Room 3	Room 8								
		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								
09:30– 11:15	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									
		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.					
11:30 – 13:00	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		I	Lunch break (C	onference)		1					
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										
		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						
16:15– 18:00	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		Workshop Closing	1						
		Workshop Closing										
19:30 – 21:00					y Welcome Hotel)							

				Tu	esday, March 27th						
Time		Room 6/7			Room 3			Room 8			
09:00- 09:30		Room 6/7 Opening Session Keynote 1: Prof. Dr. Holger Giese (Hasso Plattner Institute, Potsdam, Germany): How Models lead from Software Evolution to Self-Adaptive Software and Runtime Models. Session Chair: Guido Wirtz									
09:30 – 10:30	Runti										
10:30 – 10:45	Coffee Break										
		Big Data Session Session Chair: Jie X		Mobile Cloud Session I Session Chair: Toru Kobayashi				SOSE Session I Session Chair: Jerry Gao			
	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.		
10:45 – 12:15	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 (Coi	nference)					
		Big Data Session Session Chair: Younghe			Mobile Cloud Ses Session Chair: Cristia			SOSE Visionary To Session Chair: Fan Jing			
13:15– 15:15	30	A Generalized Service Infrastructure for Data Analytics	Jan Frenzel, Yedhu Sastri, Christoph Lehmann, Taras Lazariv, René Jäkel and Wolfgang E.	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		

			Nagel							
	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	
	6 4	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 Al Systems and Unstructured Big Data	Jerry Gao, Shengqang Lu, Penchen Zhang	
15:15 – 15:30		•			Coffee bre	ak	•	•	•	
		Big Data Session	III		Mobile Cloud Sess			SOSE Session		
		Session Chair: Xiaohui Y			Session Chair: Luca F		Session Chair: Jie Xu			
	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.	S0-1	Semantic Integration of System Specifications to Support Different System Engineering Disciplines	Alexander Rauh, Stefan Queins and Wolfgang Golubski	
15:30 – 17:30	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	Guanyao Du, Yuchun Liu and Jianjun Yu	18	On the deployment of an open-source, 5G- aware evaluation	Luis Tomas Bolivar, Christos	SO-4	Supporting Coordination in Crowdsourced Software Testing Services	Manar Alsayyari and Sultan Alyahya	

		Recommendation			testbed	Tselios, et al.			
	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				Rece	 ption (Conference, Pl	<u> </u> ückers Restaur	ant)		
20:00 – 21:30		Bamberg@Night Walk (Meeting Point: Lobby Welcome Hotel)							

				Wedne	sday, March 28th							
Time	ime Room 6/7				Room 3			Room 8				
09:00 -10:00	Roo	Room 6/7: Keynote 2: Prof. Dr. Cristian Borcea (New Jersey Institute of Technology, Newark, USA): Distributed Mobile Cloud Computing with Avatars Session Chair: Peter Ruppel										
10:00 – 10:15	Coffee Break											
10:15 – 12:15		Big Data Ses Session Chair: Muha			Mobile Cloud Se Session Chair: Hiro			SOSE Sessi Session Chair: Jör				
	26	From Photos to Travel Itinerary: A Tourism Recommender System for Smart Tourism Destination	Mickael 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			
I	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. situations	Francesco Leotta, Massimo Mecella and Daniele Sora	13	Experimental Study of Video Fusion for Multi-View Video Streaming in Mobile Media Cloud	Jie Wang, Shuquan Yang, Weizhan Zhang, Junquan Liu, Xie Kong and Qinghua Zheng.	SF-7	An Ensemble Signature- based Approach for Performance Diagnosis in Big Data Platform	Hong Kou
12:15 – 13:15					Lunch break (Con	<u> </u>	1		
13:15 – 15:15		Big Data Ses			Mobile Cloud Se			Big Data Sess	
:		Session Chair: Muha			Session Chair: Andre			Session Chair: Xiao	
	59	A Relationship Between	-	24	Collaborative	Hillol Debnath,	46	Back to the Bazaar:	Massimo Marchiori
		Fines and Violent	Gangopadhyay,		Offloading for	Cristian Borcea		destructuring the Data	
		Crimes	Simranjyot Singh Gill and Suzanne McIntosh		Distributed Mobile- Cloud Apps	et al.		Mall	
	1	An Evacuation	Alexandros Zamichos,	19	A Generalized Nash	Daniel Nowak,	38	Smart City Data Storage	Aseel Alkhelaiwi and
		Management	Traianos Theodorou,		Game for Mobile	Tobias Mahn, et		Optimization in the Cloud	Dan Grigoras
		framework based on	Anastasios Drosou and		Edge Computation	al.		'	
		urban data &	Dimitrios Tzovaras		Offloading				
		personalized mobility			0				
		information							
	42	Macroscopic Patterns	Bianca Katharina	31		Jintavee	8	A Home Rehabilitation	Guanzhong Yang,
		in Sparse Location	Lüders and Peter		Application: A	Khlaisang		Comprehensive Care	Chuifeng Kong and
		Data: Identifying	Ruppel		Learning Tool for			System for Patients with	Qinpeng Xu
		Mobility Prototypes			21st Century			COPD Based on	
					Learners			Comprehensive Care	
								Pathway	
	33	Smart City architecture	Paolo Nesi,				29	NDN Log Analysis using	Junior Dongo, Charif
		for data ingestion and	Pierfrancesco Bellini,					Big Data Techniques:	Mahmoudi and
		analytics: processes	Michela Paolucci and					NFD Performance	Fabrice Mourlin
		and solutions	Imad Zaza					Assessment	
15:15 – 15:30	Cof	fee break			<u> </u>				<u> </u>
15:30 – 17:30		Big Data Ses	sion VII	Мо	bile Cloud Session	VI (Poster)		SOSE Visionary	Track II

		Session Chair: St	efan Kolb		Session Chair: Peter	Ruppel	Session Chair: Hong Zhu			
	48	Micro-blog Friend- Recommendation Based on Topic Analysis And Circle Found	Jidi Wang, Shengxiang Gao, Li-Ren Wang and Zhengtao Yu	33	SNS Agency Robot for Elderly People Realizing Rich Media Communication	Toru Kobayashi, Koushin Kuriyama et al.	VT- 08	Detecting present events to predict future: Detection and evolution of events on Twitter	Muhammad Ali Yousuf, Lu Liu , Mohsen Farid;	
	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 Yangand and Jie Xu	
	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							
17:30 - 18:15		1	R	oom A: .	ı Planning Session fo	r 2019 Conferen	ces			
19:00 – 22:00					Conference Di	•				

				Thu	ırsday, March 29th							
Time	Room 6/7			Room 3			Room 8					
09:00 – 10:00	Ro	Room 6/7: Keynote 3 (planned): Prof. Dr. Wei-Tek Tsai (Beihang University, Beijing, China/Arizona State University, Phoenix, USA): TBA Session Chair: Xiahui Yuan										
10:00 – 10:15					Coffee Br							
10:15 – 12:15		Big Data Sessi Session Chair: Guid			Big Data Session Session Chair: t			SOSE Visionary Session Chair: Jörg				
	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		-L	1		Lunch break (Co	onference)	1					
13:15 – 13:30				С	losing Session – End	d of Conference						