

| Monday, March 26 th – Workshop Day | | | | | | |
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| Time | Room 3 | | | Room 8 | | |
| 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 |

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| | | 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 | Workshop Closing | | |
| | Workshop Closing | | | | | |
| 19:30 – 21:00 | Bamberg@Night Walk (Meeting Point: Lobby Welcome Hotel) | | | | | |

| Tuesday, March 27th | | | | | | | | | |
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| Time | Room 6/7 | | | Room 3 | | | Room 8 | | |
| 09:00– 09:30 | Room 6/7 Opening Session | | | | | | | | |
| 09:30 – 10:30 | 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 (Room 6/7) | | | | | | | | |
| 10:30 – 10:45 | Coffee Break | | | | | | | | |
| 10:45 – 12:15 | Big Data Session I Session Chair: Jie Xu | | | 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. |
| | 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 Session Chair: Younghee Park | | | Mobile Cloud Session II Session Chair: Cristian Borcea | | | SOSE Visionary Track I Session Chair: Fan Jing Meng | | |
| | 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 |

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| | | | 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 |
| | 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 Session Chair: Xiaohui Yuan | | | Mobile Cloud Session III Session Chair: Luca Foschini | | | SOSE Session II 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 . | 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 | 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 |

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| | | 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 | Reception (Conference, Plückers Restaurant) | | | | | | | | |
| 20:00 – 21:30 | Bamberg@Night Walk (Meeting Point: Lobby Welcome Hotel) | | | | | | | | |

| Wednesday, March 28th | | | | | | | | | |
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| Time | Room 6/7 | | | Room 3 | | | Room 8 | | |
| | Keynote 2: Prof. Dr. Cristian Borcea (New Jersey Institute of Technology, Newark, USA): Distributed Mobile Cloud Computing with Avatars | | | | | | | | |
| 09:00 –10:00 | Session Chair: Peter Ruppel (Room 6/7) | | | | | | | | |
| 10:00 – 10:15 | Coffee Break | | | | | | | | |
| 10:15 – 12:15 | Big Data Session IV Session Chair: Muhammad Younas | | | Mobile Cloud Session IV Session Chair: Hiroyuki Sato | | | SOSE Session III Session Chair: Jörg Lenhard | | |
| | 26 | From Photos to Travel Itinerary: A Tourism Recommender System for Smart Tourism Destination | Mickael Figueredo, José Lucas Ribeiro, Nélío 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 |

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| | 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 (Conference) | | | | | | | | |
| 13:15 – 15:15 | Big Data Session V Session Chair: Muhammad Younas | | | Mobile Cloud Session V Session Chair: Andrea Capponi | | | Big Data Session VI Session Chair: Xiaohui Yuan | | |
| | 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 | Paolo Nesi, Pierfrancesco Bellini, Michela Paolucci and | | | | 29 | NDN Log Analysis using Big Data Techniques: | Junior Dongo , Charif Mahmoudi and Fabrice Mourlin |

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| | | analytics: processes and solutions | Imad Zaza | | | | | NFD Performance Assessment | |
| 15:15 – 15:30 | Coffee break | | | | | | | | |
| 15:30 – 17:30 | Big Data Session VII Session Chair: Xiaohui Yuan | | | Mobile Cloud Session VI (Poster) Session Chair: Peter Ruppel | | | SOSE Visionary Track II 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 | Room A: Planning Session for 2019 Conferences | | | | | | | | |
| 19:00 – 22:00 | Conference Dinner | | | | | | | | |

