ICSOC 2018 Conference Program

Time	Monday, 12 Nov	Tuesday, 13 Nov	Wednesday, 14 Nov	Thursday, 15 Nov
8:00AM – 9:00AM	Registration	Registration	Registration	Registration
9:00AM – 10:30AM	Workshops Program/ PhD Symposium	Opening **Keynote 1** Schahram Dustdar *BALLROOM II*	**Keynote 2** Liming Zhu *BALLROOM II* Demo Flash Talks	Session 13. Social and Interactive Services *BALLROOM II* / Session 14. Services and Processes *Room SALON III* / Industry Forum *Room SALON IV*
10:30AM – 11:00AM		Group Photo + Coffee break	Coffee break	Coffee break
11:00AM – 12:30PM		Session 1. Recommendation I *BALLROOM II* / Session 2. Quality of Service *Room SALON III* / Session 3. Service Engineering I *Room SALON IV*	Session 9. Recommendation II *BALLROOM II* / Session 10. Service Applications *Room SALON III* / Session 11. Service Management II *Room SALON IV*	**Keynote 3** Jeff Zeng *BALLROOM II*
12:30PM – 2:00PM		Lunch	Lunch	Lunch
2:00PM – 3:30PM		Session 4. Edge + IoT Services I *BALLROOM II* / Session 5. Service Management I *Room SALON III* / Session 6. Service Engineering II *Room SALON IV*	Panel *BALLROOM II*	Session 15. Edge + IoT Services II *BALLROOM II* / Session 16. Service Analytics *Room SALON III*
3:30PM – 4:00PM		Coffee break	Coffee break	Closing
4:00PM – 5:30PM		Session 7. Service Trust and Security *BALLROOM II* / Session 8. Microservices *Room SALON III*	Demo Session *Room SALON III* / Session 12. Business Services and Processes *BALLROOM II*	
7:00PM – 9:30PM	**Welcome Reception**		**Gala Dinner**	

Tuesday November 13, 2018 Detailed Program

Tuesday 9:00AM – 10:30AM, BALLROOM II

The Opening Ceremony
Keynote 1: On Research Challenges in IoT Systems Engineering
Speaker: Schahram Dustdar, Professor of Computer Science, IEEE Fellow, ACM Distinguished Scientist, TU Wien, Austria
Session Chair: Prof. Michael Sheng, Macquarie University, Australia

Tuesday 10:30AM – 11:00AM, Group Photo + Coffee Break

Tuesday 11:00AM – 12:30PM

Session 1: Recommendation I, BALLROOM II

Expert Recommendation via Tensor Factorization with Regularizing Hierarchical Topical Relationships
Chaoran Huang, Lina Yao, Xianzhi Wang, Boualem Benatallah, Shuai Zhang, Manqing Dong

Software service recommendation base on Collaborative Filtering Neural Network model
Liang Chen, Angyu Zheng, Yinglan Feng, Fenfang Xie, Zibin Zheng

A Weighted Meta-graph based Approach for Mobile Application Recommendation on Heterogeneous Information Networks
Fenfang Xie, Liang Chen, Yongjian Ye, Yang Liu, Zibin Zheng, Xiaola Lin

(SHORT) Temporal-Sparsity aware Service Recommendation Method via Hybrid Collaborative Filtering Techniques
Shunmei Meng, Qianmu Li, Shiping Chen, Shui Yu, Wanchun Dou

Session 2: Quality of Service, Room SALON III

Constraint-based Model-driven Testing of Web Services for Behavior Conformance
Chang-ai Sun, Meng Li, Jingting Jia, Jun Han

QoS Optimization of Service Clouds Serving Pleasingly Parallel Jobs
Xiulin Li, Li Pan, Shijun Liu, Xiangxu Meng

Estimating the Performance of Cloud-Based Systems Using Benchmarking and Simulation in a Complementary Manner
Haan Johng, Doohwan Kim, Tom Hill, Lawrence Chung

(SHORT) Two-Phase Web Service QoS Prediction with Symmetric Restricted Boltzmann Machine
Lu Chen, Yuyu Yin, Yueshen Xu, Liang Chen, Jian Wan

Session 3: Service Engineering I, Room SALON IV

Constructing and Evaluating an Evolving Web-API Network for Service Discovery
Olayinka Adeleye, Jian Yu, Sira Yongchareon, Yanbo Han

Stigmergic Service Composition and Adaptation in Mobile Environments
Andrei Palade, Christian Cabrera, Gary White, Siobhán Clarke

State of the Practice in Service Identification for SOA Migration in Industry
Manel Abdellatif, Geoffrey Hecht, Hafedh Mili, Ghizlane El Boussaidi, Naouel Moha, Anas Shatnawi, Jean Privat, Yann-Gael Guéhéneuc

(SHORT) A Truthful Mechanism for Optimally Purchasing IaaS Instances and Scheduling Parallel Jobs in Service Clouds
Bingbing Zheng, Li Pan, Dong Yuan, Shijun Liu

Tuesday 12:30PM – 2:00PM, Lunch, BALLROOM I

Tuesday 2:00PM – 3:30PM

Session 4: Edge + IoT Services I, BALLROOM II

Latency-Aware Placement of Data Stream Analytics on Edge Computing
Alexandre da Silva Veith, Marcos Dias de Assuncao, Laurent Lefevre

Optimal Edge User Allocation in Edge Computing with Variable Sized Vector Bin Packing
Phu Lai, Qiang He, Mohamed Abdelrazek, Feifei Chen, John Hosking, John Grundy, Yun Yang

(SHORT) RA-FSD: A Rate-Adaptive Fog Service Delivery Platform
Tiehua Zhang, Jiong Jin, Yun Yang

(SHORT) A Service-based Declarative Approach for Capturing Events from Multiple Sensor Streams
Zhongmei Zhang

Session 5: Service Management I, Room SALON III

Hierarchical Recursive Resource Sharing for Containerized Scientific Workflows
Young Jin Kim, Young Choon Lee, Hyuck Han, Sooyong Kang

A Fuzzy-based Auto-scaler for Web Applications in Cloud Computing Environments
Bingfeng Liu, Rajkumar Buyya, Adel Nadjaran Toosi

Runtime Monitoring in Continuous Deployment by Differencing Execution Behaviour Models
Monika Gupta, Atri Mandal, Gargi Dasgupta, Alexander Serebrenik

(SHORT) Cost-Efficient and Robust Task Scheduling based on Reusing Computation in Clouds
Chavit Denninnart, Mohsen Amini Salehi, Adel Nadjaran Toosi, Xiangbo Li

Session 6: Service Engineering II, Room SALON IV

Convenience-based Periodic Composition of IoT Services
Bing Huang, Athman Bouguettaya, Azadeh Gharineiat

CrowdMashup: Recommending Crowdsourcing Teams for Mashup Development
Faisal Binzagr, Brahim Medjahed

A Variation Aware Composition model for Dynamic Web Service environments
Soumi Chattopadhyay, Ansuman Banerjee

(SHORT) A Model-Driven Framework for Automated Generation and Verification of Cloud Solutions from Requirements
Hamid R. Motahari Nezhad, Taiga Nakamura, Peifeng Yin, Adi Sosnovich, Karen Yorav

Tuesday 3:30PM – 4:00PM, Coffee Break

Tuesday 4:00PM – 5:30PM

Session 7: Service Trust and Security, BALLROOM II

Empowering Business-Level Blockchain Users with a Rules Framework for Smart Contracts
Tara Astigarraga, Xiaoyan Chen, Yaoliang Chen, Jingxiao Gu, Richard Hull, Limei Jiao, Yuliang Li, Petr Novotny

Context-Aware Trustworthy Service Evaluation and Recommendation in Social Internet of Things
Maryam Khani, Yan Wang, Mehmet A. Orgun, Feng Zhu

Cloudchain: a Blockchain-based Coopetition Differential Game Model for Cloud Computing
Mona Taghavi, Jamal Bentahar, Hadi Otrok, Kaveh Bakhtiyari

Session 8: Microservices, Room SALON III

Microscope: Pinpoint the Abnormal Services with Causal Graphs in Micro-service Environments
Jinjin Lin, Pengfei Chen, Zibin Zheng

Architecture-based Automated Updates of Distributed Microservices
Fabienne Boyer, Xavier Etchevers, Noel de Palma, Xinxiu Tao

Function-Splitting Heuristics for Discovery of Microservices in Enterprise Systems
Adambarage Anuruddha Chathuranga De Alwis, Alistair Barros, Artem P Polyvyanyy, Colin Fidge

Wednesday November 14, 2018 Detailed Program

Wednesday 9:00AM – 10:30AM, BALLROOM II
Keynote 2: Distributed Trust: How Data-Driven Applications, AI and Blockchain is Impacting Service Oriented Computing
Speaker: Liming Zhu, Research Director of Software and Computational Systems Research Program, Data61, CSIRO, Australia
Session Chair: Prof. Jian Yang, Macquarie University, Australia

Demo Flash Talks

Wednesday 11:00AM – 12:30PM

Session 9: Recommendation II, BALLROOM II

QoS-aware Web Service Recommendation with Reinforced Collaborative Filtering
Guobing Zou, Ming Jiang, Sen Niu, Hao Wu, Shengye Pang, Yanglan Gan

Unit of Work Recommendation for Generative Workflow
Jia Zhang, Maryam Pourreza

Mobile Crowdsourced Sensors Selection for Journey Services
Ahmed Ben Said, Abdelkarim Erradi, Azadeh Ghari Neiat, Athman Bouguettaya

(SHORT) RLRecommender: A representation-learning-based recommendation method for business process modeling
Huaqing Wang, Lijie Wen, Li Lin, Jianmin Wang

Session 10: Service Applications, Room SALON III

Healthcare Application Migration in Compliant Hybrid Clouds
Anca Sailer, Bo Yang, Siddharth Jain, Angel E. Tomala-Reyes, Manu Singh, Anirudh Ramnath

DAliM: Machine Learning Based Intelligent Lucky Money Determination for Large-Scale E-Commerce Businesses
Min Fu, Chi Man Wong, Hai Zhu, Yan Jun Huang, Yuan Ping Li, Xi Zheng, Jia Wu, Chi Man Vong, Jian Yang

A service-based approach for analytics in Industry 4.0
Philippe Lalanda, Denis Morand

(SHORT) eTOUR: A Two-Layer Framework for Tour Recommendation with Super-POIs
Chunwei Wang, Yuanning Gao, Xiaofeng Gao, Bin Yao, Guihai Chen

Session 11: Service Management II, Room SALON IV

QKnober: A Knob-based Fairness-Efficiency Scheduler for Cloud Computing with QoS Guarantee
Shanjiang Tang, Ce Yu, Chao Sun, Jian Xiao, Yinglong Li

Energy-Efficient and Quality of Experience-Aware Resource Provisioning For Massively Multiplayer Online Games In the Cloud
Yongqiang Gao, Lin Wang, Zhulong Xie, Wenhui Guo, Jiantao Zhou

A Cost-Effective Deadline-Constrained Scheduling Strategy for a Hyperparameter Optimization Workflow for Machine Learning Algorithms
Yan Yao, Jian Cao, Zitai Ma

(SHORT) Transparently Capturing Execution Path of Service/Job Request Processing
Yong Yang, Long Wang, Jing Gu, Ying Li

Wednesday 12:30PM – 2:00PM, Lunch, BALLROOM I

Wednesday 2:00PM – 3:30PM, BALLROOM II
Panel: IoT and Service: Friends or Foes?
Moderator: Prof. Jian Yang, *Macquarie University, Australia*

Wednesday 3:30PM – 4:00PM, Coffee Break

Wednesday 4:00PM – 5:30PM

Demo Session, Room SALON III

Improved Architectures/Deployments with Elmo
Arjan Lamers, Marko van Eekelen, Sung-Shik Jongmans

CEA: A Service for Cognitive Event Automation
Larisa Shwartz, Jinho Hwang, Hagen Volzer, Michael Nidd, Murilo Goncalves Aguiar, Marcos Vinicius Landivar, Paraiso Letusa Valero

BluePlan: A Service for Automated Migration Plan Construction using AI
Malik Jackson, John Rofrano, Jinho Hwang, Maja Vukovic

ELeCTRA: induced usage limitations calculation in RESTful APIs
Antonio Gamez-Diaz, Pablo Fernandez, Ana Ivanchikj, Cesare Pautasso, Antonio Ruiz-Cortes

Offering Artificial Intelligence Development Situation Analysis Service for Users
Xiujuan Xu, Yu Liu

TReAT: A Tool for Analyzing Relations between Tasks in a Process
Pengbo Xiu, Jian Yang, Weiliang Zhao

iCOP: IoT-enabled Policing Processes
Francesco Schiliro, Amin Beheshti, Samira Ghodratnama, Farhad Amouzgar, Boualem Benatallah, Jian Yang,
Quan Z. Sheng, Fabio Casati, Hamid Reza Motahari-Nezhad

iSheets: A Spreadsheet-based Machine Learning Development Platform for Data-driven Process Analytics
Farhad Amouzgar, Amin Beheshti, Samira Ghodratnama, Boualem Benatallah, Jian Yang, Quan Z. Sheng

SORCER: A Decentralised Continuous Integration Platform for Service-Oriented Software Systems
Jameel Almalki, Haifeng Shen

On Anomaly Detection and Root Cause Analysis of Microservice Systems
Zijie Guan, Jinjin Lin, Pengfei Chen

RESTalk Miner: Mining RESTful Conversations, Pattern Discovery and Matching
Ana Ivanchikj, Ilija Gjorgjiev, Cesare Pautasso

slay Engine for Large-Scale SLA Management
Shashank Rajamoni, Robert Engel, Bryant Chen, Heiko Ludwig, Alexander Keller

Paving the Way for Autonomous Cars in the City of Tomorrow: A Prototype for Mobile Devices Support at the
Edges of 5G Network
Fatma Raissi, Clovis Anicet Ouedraogo, Sami Yangui, Frederic Camps, Nejib Bel-Hadj Alouane,

Juno: An Intelligent Chat Service for IT Service Automation
Jin Xiao, Anup Kalia, Maja Vukovic

Session 12: Business Services and Processes, BALLROOM II

Prediction of Invoice Payment Status in Account Payable Business Process
Tarun Tater, Sampath Dechu, Senthil Mani, Chandresh Maurya

Explaining Non-Compliance of Business Process Models through Automated Planning
Fabrizio Maria Maggi, Andrea Marrella, Giuseppe Capezzuto, Abel Armas-Cervantes

A genetic algorithm for cost-aware business processes execution in the cloud
Guillaume Rosinosky, Samir Youcef, Charoy François

Wednesday 8:30PM, Gala Dinner

Thursday November 15, 2018 Detailed Program

Thursday 8:00AM – 9:00AM, Registration

Thursday 9:00AM – 10:30AM

Session 13: Social and Interactive Services, BALLROOM II

Crowdsourcing Task Scheduling in Mobile Social Networks
Jiahao Fan, Xinbo Zhou, Xiaofeng Gao, Guihai Chen

(SHORT) Cognitive system to achieve human-level accuracy in automated assignment of helpdesk email tickets
Atri Mandal, Nikhil Malhotra, Shivali Agarwal, Anupama Ray, Giriprasad Sridhara

(SHORT) Crowdsourcing Energy as a Service
Abdallah Lakhdari, Athman Bouguettaya, Azadeh Ghari Neiat

(SHORT) Social-Sensor Composition for Scene Analysis
Tooba Aamir, Athman Bouguettaya, Hai Dong

(SHORT) QITA: Quality Inference Based Task Assignment in Mobile Crowdsensing
Chenlin Liu, Xiaofeng Gao, Fan Wu, Guihai Chen

Session 14: Services and Processes, Room SALON III

High Performance Userspace Networking for Containerized Microservices
Xiaohui Luo, Fengyuan Ren

Supporting Architectural Decision Making on Quality Aspects of Microservice APIs
Uwe Zdun, Mirko Stocker, Olaf Zimmermann, Cesare Pautasso, Daniel Lübke

(SHORT) Adaptive Temporal Verification and Violation Handling for Time-Constrained Business Cloud Workflows
Haoyu Luo, Xiao Liu, Jin Liu, Yun Yang

(SHORT) Towards Creating Business Process Models from Images
Neelamadhav Gantayat, Giriprasad Sridhara, Anush Sankaran, Sampath Dechu, Senthil Mani, Gargi B Dasgupta

Industry Forum, Room SALON IV

Panel: Stable Data Intelligence Service in E-Commerce: Business Requirements and Applications
Moderator: Dr. Min Fu, Alibaba Group

<u>Panelists</u>:
- Wei Zhang, Data Service Department of Business Platform Unit, Alibaba Group
- Feijun Jiang, AI Lab, Alibaba Group
- Yue Wang, Alibaba Cloud
- Yichi Zhang, Data Service Department of Business Platform Unit, Alibaba Group

Thursday 10:30AM – 11:00AM, Coffee Break

Thursday 11:00AM – 12:30PM, BALLROOM II

Keynote 3: Deep Insight of End to End E-Commerce Business Management
Speaker: Jeff Zeng, Senior Staff Engineer, Alibaba Group
Session Chair: Prof. Jianwei Yin, Zhejiang University, China

Thursday 12:30PM – 2:00PM, Lunch, BALLROOM I

Thursday 2:00PM – 3:30PM

Session 15: Edge + IoT Services II, BALLROOM II

Response Time Aware Operator Placement for Complex Event Processing in Edge Computing
Xinchen Cai, Hongyu Kuang, Hao Hu, Wei Song, Jian Lv

Enacting Emergent Configurations in the IoT through Domain Objects
Fahed Alkhabbas, Martina De Sanctis, Romina Spalazzese, Antonio Bucchiarone, Paul Davidsson, Annapaola Marconi

(SHORT) Energy-Delay Co-optimization of Resource Allocation for Robotic Services in Cloudlet Infrastructure
Mahbuba Afrin, Jiong Jin, Ashfaqur Rahman

(SHORT) Services in IoT: A Service Planning Model based on Consumer Feedback
Christian Cabrera, Andrei Palade, Gary White, Siobhán Clarke

Session 16: Service Analytics, Room SALON III

Domain Knowledge Driven Key Term Extraction for IT Services
Prateeti Mohapatra, Yu Deng, Abhirut Gupta, Gargi Dasgupta, Amit Paradkar, Ruchi Mahindru, Daniela Rosu, Shu Tao, Pooja Aggarwal

(SHORT) An Adaptive Semi-Local Algorithm for Node Ranking in Large Complex Networks
Fanghua Ye, Chuan Chen, Jie Zhang, Jiajing Wu, Zibin Zheng

(SHORT) User Location Prediction in Mobile Crowdsourcing Services
Yun Jiang, Wei He, Lizhen Cui, Hua Lu

(SHORT) Leveraging Regression Algorithms for Predicting Process Performance using Goal Alignments
Karthikeyan Ponnalagu, Aditya Ghose, Hoa Dam

(SHORT) Using Machine Learning to Provide Differentiated Services in SDN-like Publish/Subscribe Systems for IoT
Yulong Shi, Yang Zhang, Hans-Arno Jacobsen, Bo Han, Mengxi Wei, Junliang Chen

Thursday 3:30PM, The Closing Ceremony

Workshops / PhD Symposium Program

Time	DDBS	ADMS	NLS4IoT	CIoTS	ASOCA & ISyCC	PhD Symposium
Room	Room SALON I		Room SALON II	Room SALON III	Room SALON IV	
9:00AM – 10:30AM	Session I		Session I	Session I	Session I	
10:30AM – 11:00AM	Coffee Break					
11:00AM – 12:30PM	Session II		Session II	Session II		
12:30PM – 2:00PM	Lunch					
2:00PM – 3:30PM		Session I	Session III	Session III		Session I
3:30PM – 4:00PM	Coffee Break					
4:00PM – 5:30PM		Session II		Session IV		Session II

Monday November 12, 2018 Detailed Program

DDBS: Data-Driven Business Services
Session I, Room SALON I

A data-driven optimization method for reallocating the free-floating bikes
Ming Liu, Xifen Xu

Study on Airport De-icing Schedule Problem Balancing Fairness and Efficiency
Qing Guo, Bing Li, Xuan Luo

Co-Design of Business and IT services - a Tool-Supported Approach
Blagovesta Pirelli, Natalia Nessler, Gorica Tapandjieva, Alain Wegmann

NLS4IoT: Networked Learning Systems for Secured IoT Services and Its Applications
Session I, Room SALON II

Study on a kind of Erbium Doped Fiber Amplifier
Fan Gao, Ye Lu, Chuanqi Li

Analysis and design of CMOS fully differential telescopic operational amplifier with common mode feedback
Zhongqiu Pang, Pinqun Jiang, Shuxiang Song, Mingcan Cen

Parallel Concatenate Network with Residual Structure for Image Recognition
Peng Li, Pinqun Jiang, Shangyou Zeng, Rui Fan

CIoTS: Context-Aware and IoT Services
Session I, Room SALON III

Augmented Reality in IoT
Gary White, Christian Cabrera, Andrei Palade, Siobhan Clarke

The Tentative Research of Hydrologic IoT Data Processing System Based on Apache Flink
Feng Ye, Zhijian Wang, Hu Cheng, Yong Chen

Runtime Service Composition Modification Supporting Situational Sensor Data Correlation
Chen Liu, Zhongmei Zhang, Shouli Zhang, Yanbo Han

ASOCA: Adaptive Service-Oriented and Cloud Applications &
ISyCC: IoT Systems for Context-aware Computing
Session I, Room SALON IV

Dynamic Task Allocation for Data-Intensive Workflows in Cloud Environment

Xiping Liu, Liyang Zheng, Junyu Chen, Lei Shang

A Data Dependency and Access Threshold Based Replication Strategy for Multi-Cloud Workflow Applications
Fei Xie, Jun Yan, Jun Shen

Support Context-Adaptation in the Constrained Application Protocol (CoAP)
Dong Yuji, Wan Kaiyu, Yue Yong, Huang Xin

Monday 10:30AM – 11:00AM, Coffee Break

Monday 11:00AM – 12:30AM

DDBS: Data-Driven Business Services
Session II, Room SALON I

Energy-aware and Location-constrained Virtual Network Embedding in Enterprise Network
Cong Xin, Zi Lingling, Shuang Kai

WeChat Red Envelops: Literature Review and Future Directions
Zerun Chen, Rui Gu

NLS4IoT: Networked Learning Systems for Secured IoT Services and Its Applications
Session II, Room SALON II
Application of System Call in Abnormal User Behavior Detection in Social Network
Shizhen Zhang, Frank Jiang, Min Qin

Multi-branch Aggregate Convolutional Neural Network for Image Classification
Rui Fan, Pinqun Jiang, Shangyou Zeng, Peng Li

Remote Sensing Image Deblurring Algorithm Based on WGAN
Haiying Xia, Chenxu Liu

CIoTS: Context-Aware and IoT Services
Session II, Room SALON III

A Service-based Approach to Situational Correlation and Analyses of Stream Sensor Data
Liu Yang, Yi Li, Zhongmei Zhang

A Cost-Effective Time-Constrained Multi-Workflow Scheduling Strategy in Fog Computing
Ruimiao Ding, Xuejun Li, Xiao Liu, Jia Xu

A Brief Survey on IoT Privacy: Taxonomy, Issues and Future Trends
Kinza Sarwar, Sira Yongchareon, Jian Yu

Monday 12:30PM – 2:00PM, Lunch, Room WEST LAKE II

ADMS: AI and Data Mining for Services
Session I, Room SALON I

Fast Nearest-Neighbor Classification using RNN in Domains with Large Number of Classes
Gautam Singh (IBM Research-India), Gargi Dasgupta (IBM Research-India), Yu Deng (IBM T.J. Watson Research Center)

TaxiC: A Taxi Route Recommendation Method based on Urban Traffic Charge Heat Map
Yijing Cheng (Xiamen University), Qifeng Zhou (Xiamen University), Yongxuan Lai (Xiamen University)

Event Log Reconstruction Using Autoencoders
Hoang Thi Cam Nguyen (Ulsan National Institute of Science and Technology), Marco Comuzzi (Ulsan National Institute of Science and Technology)

NLS4IoT: Networked Learning Systems for Secured IoT Services and Its Applications
Session III, Room SALON II

A new blockchain-based malware detection in Android platform
Fei Gao

Text Classification Research Based on Improved Word2vec and CNN
Mengyuan Gao, Tinghui Li

Retinal image registration based on bifurcation point and SURF
Haiying Xia, Danhua Chen

CIoTS: Context-Aware and IoT Services
Session III, Room SALON III

Real-time Estimation of Road Traffic Speeds from Cell-based Vehicle Trajectories
Xiaoxiao Sun, Dongjin Yu, Sai Liao, Wanqing Li, Chengbiao Zhou

A Data Cleaning Service on Massive Spatio-temporal Data in Highway Domain
Yanqing Xia, Xuefei Wang, Weilong Ding

Tracking a Person's Behaviour in a Smart House
Gavin Chand, Mustafa Ali, Bashar Barmada, Veronica Liesaputra, Guillermo Ramirez-Prado, Sira Yongchareon

PhD Symposium
Session I, Room SALON IV

Moderator: Prof. Zhongjie Wang, HIT, China

Service Negotiation in a Dynamic IoT Environment
Fan Li

Towards Energy and Time Efficient Resource Allocation in IoT-Fog-Cloud Environment
Huaiying Sun, Huiqun Yu, Guisheng Fan

AppNet:A Large-Scale Multi-layer Heterogeneous Complex App Network for Intelligent Program Search
Jianmao Xiao, Shizhan Chen, Zhiyong Feng, Jian Yang

Monday 3:30PM – 4:00PM, Coffee Break

Monday 4:00PM – 5:30PM

ADMS: AI and Data Mining for Services
Session II, Room SALON I

MLE: a General Multi-Layer Ensemble Framework for Group Recommendation
Xiaopeng Li, Bin Xia (Nanjing University of Posts and Telecommunications)

(SHORT) Does your accurate process predictive monitoring model give reliable predictions?
Marco Comuzzi (Ulsan National Institute of Science and Technology), Alfonso E. Marquez-Chamorro (Universidad de Sevilla), Manuel Resinas2 (Universidad de Sevilla)

CIoTS: Context-Aware and IoT Services
Session IV, Room SALON III

An Efficient in-Memory R-tree Construction Scheme for Spatio-temporal Data Stream
Liang Huai Yang

PhD Symposium
Session II, Room SALON IV

Moderator: Prof. Zhongjie Wang, HIT, China

A Goal-Driven Context-Aware Architecture for Distributing Cognitive Service Group
Siyuan Lu

Crossover Service Phenomenon Analysis based on Event Evolutionary Graph
Mingyi Liu