

14:00-15:30, 15 September 2017, Friday, Cooperative Sensing for Smart Mobility, Room 311, Wenhao Hall, Chair: Joaquim Castro Ferrira				
Type	Title		Speaker	Shown? (Yes/No)
Keynote	Distributed Intelligence for Big Smart City Data Processing		Dr. Wei Wang, Xi'an Jiaotong Liverpool University	
14:00-15:30, 15 September 2017, Friday, Smart Energy Systems, Room 203, Wenhao Hall, Chair: Weiqi Hua, co-Chair: Ahsan Shahid				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570381732	Full paper	<i>Cloud-based Parallel Implementation of an Intelligent Classification Algorithm for Fault Detection and Diagnosis of HVAC Systems</i>	Long Chang; Hong Wang; Lingfeng Wang	
1570373597	Full paper	<i>Aerial image analysis based on improved adaptive clustering for photovoltaic modules inspection</i>	Duo Zhang; Fengjie Wu; Xiaoxia Li; Xuejing Luo; Jixue Wang; Zhebo Chen; Qiang Yang; Wenjun Yan	
1570377280	Full paper	<i>Power Management, Control and Protection in Micro-grids - A Review</i>	Ahsan Shahid	
1570377428	Full paper	<i>Optimal Design of an Island Microgrid with Considering Scheduling Optimization</i>	Meixian Huang; Lijun Fu; Yan Zhang; Xueping Gao	
1570377508	Full paper	<i>Unit Commitment in Achieving Low Carbon Smart Grid Environment with Virtual Power Plant</i>	Weiqi Hua; Dan Li; Hongjian Sun; Peter Matthews	
14:00-15:30, 15 September 2017, Friday, Smart Transportation, Room 205, Wenhao Hall, Chair: Shun-Yin Pang, Co-Chair: Luke Abberley				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570366209	Full paper	<i>TRADER: Traffic Light Phases Aware Driving for Reduced Traffic Congestion in Smart Cities</i>	Cullen Rhodes; Soufiene Djahel	
1570373563	Full paper	<i>Modelling Road Congestion using Ontologies for Big Data Analytics in Smart Cities</i>	Luke Abberley; Nicholas Gould; Keeley Crockett; Jianquan Cheng	
1570381877	Full paper	<i>Auditor Work Dispatching Algorithm Practicing for iParking System</i>	Tang- Hsien Chang; Shun-Yin Pang; Ying Chih Lu	
1570388023	Full paper	<i>Evaluating Citywide Bus Service Reliability Using Noisy GPS Data</i>	Shen Wang; Brian Mac Namee	
1570372500	Full paper	<i>RIMAC Project: Building a low cost camera network for feeding an Open Urban Routing Information System</i>	Luis Camacho; Jose Luis Calderon Choy	
14:00-15:30, 15 September 2017, Friday, Artificial Intelligence for Smart City, Room 107, Wenhao Hall, Chair: Yangyang Li				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373106	Short paper	<i>Investigation of Horizontal Crossover and Stability-based Adaptive Inertia Weight Strategies for CLPSO</i>	Xiang Yu; Zepeng Li; Genhua Chen; Lei Wang	

1570377713	Short paper	<i>Character-level Neural Networks for Short Text Classification</i>	Jingxue Liu; Fanrong Meng; Yong Zhou; Bing Liu	
1570380767	Full paper	<i>Quantum Inspired High Dimensional Hyper-Parameter Optimization of Machine Learning Model</i>	Yangyang Li; Gao Lu; Linhao Zhou; Licheng Jiao	
1570380822	Full paper	<i>An effective approach to crowd counting with CNN-based Statistical features</i>	Shunqiang Liu; Sulan Zhai; Chenglong Li; Jin Tang	
1570381329	Full paper	<i>Monte Carlo-based Adaptive Controller for Building Energy Efficiency</i>	Shuang Ge; Baochuan Fu; Zhengtian Wu; Yaqi Wu	
15:45-17:15, 15 September 2017, Friday, Cooperative Sensing for Smart Mobility, Room 311, Wenhao Hall, Chair: Diogo Gomes, co-Chair: Muhammad Alam				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570386302	Full paper	<i>Adaptive Location-Based CSI Feedback Compression for MU-MIMO Networks</i>	Jian Fang; Lei Wang; Zhenquan Qin; Jialin Liu; Bingxian Lu	
1570392991	Full paper	<i>PASMO: an open living lab for cooperative ITS and smart regions</i>	Joaquim Ferreira; José Fonseca; Diogo Gomes; João Paulo Barraca; Bruno Fernandes; João Rufino; João Almeida; Rui L Aguiar	
1570393010	Full paper	<i>Vehicular dataset for road assessment conditions</i>	Mário Antunes; Diogo Gomes; João Paulo Barraca; Rui L Aguiar	
1570393185	Full paper	<i>Monitoring V2X Applications using DevOps and Docker</i>	João Rufino; Muhammad Alam; Joaquim Ferreira	
1570393186	Full paper	<i>Acoustic Smart Sensors based integrated system for Smart homes</i>	Hugo Fernandes; Muhammad Alam; Joaquim Ferreira; José Fonseca	
15:45-17:15, 15 September 2017, Friday, Artificial Intelligence for Smart City, Room 205, Wenhao Hall, Chair: Manuel Avalos				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570390642	Short paper	<i>A Fall Detection Algorithm Based on Channel State Information</i>	Keming Tang; Hao Yang	
1570385095	Short paper	<i>How Digital Identity on Blockchain can contribute in a smart city environment</i>	Rogelio Rivera Gutierrez; Victor M. Larios; Jose G Robledo; Manuel Avalos	
1570388781	Short paper	<i>Structured discriminative concept factorization for data representation</i>	Zhenqiu Shu; Xiao-Jun Wu; Cong Hu; Jicheng Wang	
1570390097	Full paper	<i>Lie Group Impression For Deep Learning</i>	Mengduo Yang; Fanzhang Li	
1570373382	Full paper	<i>Design and Implementation of a New Smart Home Control System Based on Internet of Things</i>	Xiaobo Mao; Keqiang Li; Zhiqiang Zhang; Jing Liang	
15:45-17:15, 15 September 2017, Friday, Smart Environment, Room 107, Wenhao Hall, Chair: Baochuan Fu, co-Chair: Nelio Cacho				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570377792	Full paper	<i>Design & Implementation of Energy Efficient Illumination Control Device</i>	Mandeep Singh; Abhinandan Aggarwal	

1570378001	Full paper	<i>A Data Integration Approach for Smart Cities: The Case of Natal</i>	Arthur Souza; Jorge Pereira; Juliana Oliveira; Cláudio Trindade; Everton Cavalcante; Nelio Cacho; Thais Batista; Frederico Lopes	
1570380200	Short paper	<i>A Decision Model for Measuring Resource Efficiency in Network System</i>	Ci Chen; Yanxia Hu	
1570381549	Full paper	<i>Towards an Architecture for Smart Garbage Collection in Urban Settings</i>	Miguel Ramalho; Rosaldo Rossetti; Nelio Cacho	
1570388544	Full paper	<i>Average-consensus-based Distributed Lighting Control in Open Offices</i>	Zhenping Chen; Baochuan Fu; Zhengtian Wu	
9:45-11:15, 16 September 2017, Saturday, Smart Energy Systems, Room 107, Wenhao Hall, Chair: Lingfeng Wang, co-Chair: Huimaio Chen				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570377754	Full paper	<i>Advanced Techniques for Control of Smart Grids</i>	Hafiz Muhammad Ali Zeeshan; Maimoona Naeem; Fatima Nisar	
1570373495	Full paper	<i>Aerial image recognition and matching for inspection of large-scale photovoltaic farms</i>	Fengjie Wu; Duo Zhang; Xiaoxia Li; Xuejing Luo; Jixue Wang; Zhebo Chen; Qiang Yang; Wenjun Yan	
1570377790	Full paper	<i>An Optimized Demand Response Strategy for Electric Water Heaters and the Associated Impact on Power System Operational Reliability</i>	Qian Wu; Lingfeng Wang; Bin Li	
1570377902	Full paper	<i>Coordination of PEV Charging across Multiple Stations in Distribution Networks Using Aggregate PEV Charging Load Model</i>	Huimiao Chen; Ziyang Guo; Yu Xin; Yide Zhao; Yinghao Jia	
1570378444	Short paper	<i>Data Analysis on Building Load Profiles: a Stepping Stone to Future Campus</i>	Long Wang; Yong Ding; Till Riedel; Andrei Miclaus; Michael Beigl	
9:45-11:15, 16 September 2017, Saturday, Smart Transportation, Room 311, Wenhao Hall, Chair: Liang Wang, co-Chair: Yeshwanth				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373211	Full paper	<i>A Fair Assignment of Drivers to Parking Lots</i>	Nicole Taheri; Jia Yuan Yu; Robert Shorten	
1570373364	Short paper	<i>Time-to-Contact Control for Safety and Reliability of Self-driving Cars</i>	Liang Wang; Berthold Horn	
1570373553	Full paper	<i>Electric Vehicle Charging and Discharging Scheduling Considering Reserve Call-Up Services</i>	Bing Han; Shaofeng Lu; Fei Xue; Lin Jiang	
1570373610	Full paper	<i>Estimation of Intersection Traffic Density on Decentralized Architectures with Deep Networks</i>	Chandan Yeshwanth; Arun Sooraj P S; Vinay Sudhakaran; Varsha Raveendran	
1570373715	Full paper	<i>Label Propagation for Mode Detection from Smartphone Data</i>	Mohsen Rezaie; Zachary Pattersoon; Jia Yuan Yu; Ali Yazdizadeh	
9:45-11:15, 16 September 2017, Saturday, Pattern Recognition for Smart City, Room 203, Wenhao Hall, Chair: Wei Song				

Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373589	Full paper	<i>Multimodal medical volumetric image fusion based on multi-feature in 3-D shearlet transform</i>	Xinxing Xi; Xiaoqing Luo; Zhancheng Zhang; Qingjun You; Xiao-Jun Wu	
1570378485	Full paper	<i>Flame Detection Based on GBDT Feature for Building</i>	XiaoYu Zhu; YunYang Yan; YiAn Liu; ShangBing Gao	
1570388521	Full paper	<i>Motif Matrix Inference for Rotated Image Indexing and Retrieval</i>	Wei Song	
1570389733	Abstract paper	<i>Shape From Focus Using Statistics Methods</i>	Liqiang Guo	
1570396013	Abstract paper	<i>No-Reference Quality Assessment for Multiply Distorted Images based on Deep Learning</i>	Qingbing Sang; Lixiu Wu	
15:30-17:00, 16 September 2017, Saturday, Low-power wireless networks and sensors for smart cities, Room 203, Wenhao Hall, Chair: Harald Schrom, co-Chair: Kwok Kit Tong				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373534	Full paper	<i>A System for personalized health care with ECG and EEG signals for analysis</i>	Kwok Kit Tong; Kwong Sak Leung; Yee Leung	
1570373577	Full paper	<i>LASSO: A Device-to-Device Group Monitoring Service for Smart Cities</i>	Matteo Saloni; Christine Julien; Amy L Murphy; Gian Pietro Picco	
1570373998	Short paper	<i>Building Automation by an Intelligent Embedded Infrastructure</i>	Harald Schrom; Jonas Schwartz; Stephan Diekmann	
1570374054	Short paper	<i>Power Wireless Private Network in Energy IoT: Challenges, Opportunities and Solutions</i>	Lei Wei; Weiwei Miao; Chengling Jiang; Bo Guo; Wei Li; Jihui Han; Rui Liu; Jun Zou	
1570380895	Full paper	<i>Uplink Interference Management in Power Wireless Private Network</i>	Weiwei Miao; Lei Wei; Xiangdong Chen; Chengling Jiang; Lishan Bao; Rui Liu; Lei Wang; Jun Zou	
15:30-17:00, 16 September 2017, Saturday, Smart Transportation, Room 311, Wenhao Hall, Chair: Ta-Yin Hu, co-Chair: Ruimin Ke				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373740	Full paper	<i>Effect of Street Geometry on the Vehicular Traffic Throughput and its Impact on Smart Cities Mapping Design</i>	Eliecer Peña-Ancavil; Felipe Tejada-Estay; Claudio Estevez; Aleksejs Zacepins; Vitalijs Komasilovs	
1570376816	Full paper	<i>Traffic Sign Detection Based on Voting Scheme and Link Distribution Model</i>	Dan Xu; Hualong Yu; Bin Qin; Shang Gao	
1570377035	Full paper	<i>Efficient Journey Planning and Congestion Prediction Through Deep Learning</i>	Muhammad Shalihin Othman; Sye Loong Keoh; Gary S Tan	
1570377410	Full paper	<i>Smart Mobility: Evaluation of Demand-Responsive Transit Systems in Chiayi City</i>	Ta-Yin Hu; Tsai-Yun Liao; Guan-Chun Zheng	
1570377540	Full paper	<i>Roadway Surveillance Video Camera Calibration Using Standard Shipping Container</i>	Ruimin Ke; Zewen Pan; Ziyuan Pu; Yinhai Wang	
15:30-17:00, 16 September 2017, Saturday, Pattern Recognition for Smart City, Room 107, Wenhao Hall, Chair: Hai-Che Ting, co-Chair: Xunguang Ju				

Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570373434	Full paper	<i>Traffic Pattern Modeling, Trajectory Classification and Vehicle Tracking within Urban Intersections</i>	Jia-Shung Wang; Cheng-En Wu; Wen-Yen Yang; Hai-Che Ting	
1570389775	Full paper	<i>Discovery Model and Classification Prediction of Dust Pollution at Different Altitudes Based on LS-SVM and BP Algorithm</i>	Xunguang Ju; XiaoGen Shao; Rong Bao; Feng Liu; PuTao Li	
1570389796	Full paper	<i>Moving Object Tracking Method Based on Improved Lucas-Kanade Sparse Optical Flow Algorithm</i>	Dan Li; Jiang Dai-hong; Rong Bao; Jin-ping Sun; Zhao Wen-jing; Wang Chao	
1570390087	Full paper	<i>Focused-Region Segmentation for Light field Images Based on PCNN</i>	Qiang Gao; Lei Han; Jie Shen; Huibin Wang; Lizhong Xu	
1570390092	Short paper	<i>Deep Learning Algorithm with Visual Impression</i>	Funan He; Mengduo Yang; Fanzhang Li	
9:45-11:15, 17 September 2017, Sunday, Artificial Intelligence for Smart City, Room 107, Wenhao Hall, Chair: Nelio Cacho				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570381546	Full paper	<i>Characterizing Geo-located Tweets in Brazilian Megacities</i>	João Pereira; Arian Pasquali; Pedro Saleiro; Rosaldo Rossetti; Nelio Cacho	
1570390626	Full paper	<i>An Indoor Human Motion Detection Algorithm Based on Channel State Information</i>	Keming Tang	
1570391371	Abstract paper	<i>A real-time people counting approach from the monitors video based on YOLO</i>	Peiming Ren; Wei Fang	
1570393880	Abstract paper	<i>A GPS Data based Distributed K-means for Cabstand Location Selection</i>	Tianjia He; Wei Gui; Bo Zhang; Ke Lu	
1570394389	Abstract paper	<i>Stereoscopic Image Quality Assessment via Convolutional Neural Networks</i>	Qingbing Sang; Tingting Gu	
9:45-11:15, 17 September 2017, Sunday, Pattern Recognition for Smart City, Room 203, Wenhao Hall, Chair: Tianyang Xu				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570390100	Short paper	<i>Topological Deep Learning Algorithm with Visual Impression</i>	Mengduo Yang; Fanzhang Li	
1570390172	Short paper	<i>Fast Visual Object Tracking via Correlation Filter and Binary Descriptors</i>	Tianyang Xu; Xiaojun Wu; Fei Feng	
1570390324	Abstract paper	<i>Short-term Traffic Condition Prediction of Urban Road Network Based on Improved SVM</i>	He Yan; Dongjun Yu	
1570390559	Abstract paper	<i>Background Modeling from Surveillance Video via Transformed L1 Function</i>	Fanlong Zhang; Minghua Wan; Guowei Yang; Zhangjing Yang	
9:45-11:15, 17 September 2017, Sunday, Smart Transportation, Room 313, Wenhao Hall, Chair: Koji Hasebe, co-Chair: Kai Fung Chu				

Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570377722	Full paper	<i>Dynamic Lane Reversal Routing and Scheduling for Connected Autonomous Vehicles</i>	Kai Fung Chu; Albert Y.S. Lam; Victor O. K. Li	
1570378015	Full paper	<i>Traffic Management for Last-Mile Public Transportation Systems Using Autonomous Vehicles</i>	Koji Hasebe; Kazuhiko Kato; Hirotake Abe; Ryutaro Akiya; Masayuki Kawamoto	
1570378021	Full paper	<i>Vehicle Travel Data Based Evaluation of Achievable PEV Penetration Rate from Distribution Network Capacity Perspective</i>	Huimiao Chen; Yu Xin; Ziyang Guo; Yide Zhao; Yinghao Jia	
1570370093	Full paper	<i>Traffic signal segmentation algorithm based on two-dimensional clustering of traffic volume and vector angles</i>	Hao Wang; Dong Chen	
1570370681	Full paper	<i>Analysis of traffic flow under the influence of urban road traffic accident</i>	Jie Lv; Yanyan Huang	
1570394825	Short paper	<i>Bus Signal Priority Based on SCOOT</i>	Bo Zhang; Qing Wang; Fen Liu; Lu Kang	
11:30-13:00, 17 September 2017, Sunday, Health and Well-being, Room 203, Wenhao Hall, Chair: Rocio Maciel, co-Chair: Gonzalo R. Ceballos				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570381302	Short paper	<i>Knowledge, Attitude, and Practice about Internet of Things for Healthcare</i>	Li Liu; Agusti Solanas; Weiping Chen; Ailing He	
1570381390	Full paper	<i>The research on the correlation between fingerprint and disease based on QRSFU model</i>	Chong Ma; Shanshan Li; Li Liu; Chengjie Tan; Hao Cheng; Ping Zhu	
1570384428	Short paper	<i>Smart Genetics for Smarter Health - An innovation proposal to improve wellness and health care in the cities of the future</i>	Gonzalo R. Ceballos; Federico von Son; Victor M. Larios; Heriberto Rivera; Jorge Ascencio; Raul Beltran; Rocio Maciel; Nidia Beltran-Hernandez	
1570390602	Abstract paper	<i>Physical activity recognition of elderly people and people with Parkinson's (PwP) during standard mobility tests using wearable sensors</i>	Fatemeh Tahavori; Emma Stack; Veena Agarwal; Malcolm Burnett; Amir Hoseini Tabatabaei; Harwin William; Ann Ashburn	
1570393878	Full paper	<i>Artificial Intelligence based Smart Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment</i>	Ammarah Farooq; Syed Muhammad Anwar; Awais Muhammad; Majdi Alnowami	
11:30-13:00, 17 September 2017, Sunday, Smart Government, Room 313, Wenhao Hall, Chair: Mario Arauz, co-Chair: Manuel Avalos				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570377798	Full paper	<i>A Predictive Policing Application to Support Patrol Planning in Smart Cities</i>	Adelson Araújo, Jr.; Nelio Cacho; Antônio Thomé; Allan Medeiros; Julio Borges	
1570377876	Full paper	<i>Towards Civic Engagement in Smart Public Safety</i>	Bruno Moreira; Nelio Cacho; Frederico Lopes; Everton Cavalcante	
1570384835	Full paper	<i>Hackathons, Semesterathons and Summerathons as vehicles to Develop Smart City local talent that via their innovations promote synergy between: Industry, Academia, Government and Citizens</i>	Manuel Avalos; Victor M. Larios; Pablo Salazar; Rocio Maciel	

1570385468	Short paper	<i>Tackling corruption in urban development through open data and citizen empowerment: the case of "Visor Urbano" in Guadalajara</i>	Mario Arauz; Yunive Moreno; Raúl Nanclares; Vanessa Perez; Victor M. Larios	
1570385880	Full paper	<i>Improving transport optimization to Smart City's Competitiveness</i>	Alberto Ochoa-Zezzatti; Victor M. Larios; Rocio Maciel; Olga Mora	
11:30-13:00, 17 September 2017, Sunday, Big data and Open Data, Room 107, Wenhao Hall, Chair: Yoshifumi Nishida, co-Chair: Jing You				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570377205	Full paper	<i>Smart Transfer of Social Problem into Industry by Linking Living Data Center with Social Function Library</i>	Yoshifumi Nishida; Koji Kitamura; Mikiko Oono; Tatsuhiro Yamanaka	
1570381672	Full paper	<i>Stock Market Prediction Using Neural Networks through News on Online Social Networks</i>	Weiling Chen; Yan Zhang; Chai Kiat Yeo; Chiew Tong Lau; Bu Sung Lee	
1570388755	Abstract paper	<i>Trustworthiness Judgment Based on Collaborative Recommendation and Uncertainty Analysis in an Open Network Environment</i>	Jing You; Jinglun Shangguan; Yuqiang Sun; Yin Hai Wang	
1570381547	Full paper	<i>Growing Smart Cities on an Open Data-Centric Cyber-Physical Platform</i>	José Pinto; João Pedro Dias; Rosaldo Rossetti; Nelio Cacho	
14:30-16:00, 17 September 2017, Sunday, Pattern Recognition for SC, Room 107, Wenhao Hall, Chair: Yun-Hao Yuan, co-Chair: Qing Zhang				
Paper ID	Type	Title	Authors	Shown? (Yes/No)
1570390631	Short paper	<i>A Novel Projection Twin Support Vection Machine for Pattern Recognition</i>	Xiaopeng Hua; Sen Xu; Jun Gao	
1570390635	Abstract paper	<i>Similar background image co-segmentation with co-saliency</i>	Qing Zhang; Shengrong Gong	
1570390913	Full paper	<i>Object tracking with kernel correlation filters based on mean shift</i>	Fei Feng; Xiaojun Wu; Tianyang Xu	
1570392325	Short paper	<i>Flower Classification using Fusion Descriptor and SVM</i>	Wei Liu; Yunbo Rao; Baijiang Fan; Jiali Song; Qifei Wang	
1570393876	Full paper	<i>Brain Computer Interface Based Robotic Arm control</i>	Muhammad Latif; Laiba Naeem; Tehmina Hafeez; Aasim Raheel; Sanay Muhammad Saeed; Awais Muhammad; Majdi Alnowami; Syed Muhammad Anwar	
1570396015	Full paper	<i>Symmetric Deflation Based Multiview Canonical Correlation Learning Algorithm</i>	Yun-Hao Yuan; Yun Li; Chaofeng Li; Bin Li; Jipeng Qiang; Wei Fang; Xiaojun Wu; Quansen Sun	