

2013 IET/IEEE International Conference on Smart and Sustainable City

The Conference at a Glance

Sunday, August 18, 2013

14:00-17:30 Registration

Monday, August 19, 2013

08:30-09:00 Opening Ceremony

09:00-09:10 Group Photo

09:10-09:50 Keynote Speech 1

Smart Cities – Pathways to Sustainable Futures

Stuart White, University of Technology, Sydney (UTS), Australia

09:50-10:30 Keynote Speech 2

A Statistical Inference for Some Problems in Network Analysis

Ji Zhu, University of Michigan, USA

10:30-10:45 Coffee Break

10:45-11:25 Keynote Speech 3

A Self-Calibrated and Scalable Camera Networks for Consistent Tracking and Activity Recognition of Humans

Jenq-Neng Hwang, University of WA, Seattle, USA

11:25-12:05 Keynote Speech 4

Internet of Things and Smart City

Huadong Ma, Beijing University of Posts and Telecommunications (BUPT), China

12:10-13:30 Lunch

13:30-15:30 Oral Session (20 papers in 2 rooms)

13:30-17:30 Poster session (16 papers)

M-L1 Modeling and Simulation of Complex City (Paper#: 10)

M-L2 Cloud Computing and Big Data (Paper#: 10)

M-P1 Applications for Smart City (Papers#:4)

Sensing and Internet of Things (Paper #: 12)

15:30-15:45 Coffee break

15:45-17:45 Oral Session (20 papers in 2 rooms)

M-L3 Applications for Smart City (Papers#:10)

M-L4 Social Network Analysis and Data Mining (Papers#:10)

18:30-20:30 Night Banquet

Tuesday, August 20, 2013

09:00-09:40 Keynote Speech 5

Introducing Coordination between Agents: One of the Sources of Urban Sustainability?

Arnaud Banos, Complex System Institute of Paris Ile-de-France (ISC-PIF)

09:40-10:20 Keynote Speech 6

A Hong Kong - One of the Safest Cities and Most Stable Society in the World

Ir Jolly Wong, Hong Kong Police Force, Information Systems Wing, China

10:20-10:35 Coffee Break

10:35-11:15 Keynote Speech 7

Cloud Computing and Wireless Sensor/Actor Networks for Smart City

Doan Hoang, University of Technology, Sydney (UTS), Australia

12:00-13:30 Lunch

13:30-15:30 Oral Session (20 papers in 2 rooms)

13:30-17:30 Poster Session (16 papers)

- T-L1 Cloud Computing and Big Data (Papers#:10)
- T-L2 Modeling and Simulation of Complex City (Papers#:10)
- T-P1 Cloud Computing and Big Data (Papers#:3)
Modeling and Simulation of Complex City (Paper #: 2)
Social Network Analysis and Data Mining (Papers#:11)

15:30-15:45 Coffee Break

15:45-17:45 Oral Session (20 papers in 2 rooms)

- T-L3 Applications for Smart City (Papers#:10)
- T-L4 Sensing and Internet of Things (Papers#:10)

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M-L1 Chairs: Stuart White, B. Beckers 13:30-15:30(12 min/paper) Shangshan Hall August 19, 2013, Monday

M-L1.1	Multi-scale Design Using a Holonic Approach H. Issa, E. Ostrosi, F. Pfaender, M. Lenczner, R. Habib, M.Z. Tzen
M-L1.2	Comparison of Solar Irradiation Models in an Urban Context with Shanghai Climate L. Merino, T. Vermeulen and B. Beckers
M-L1.3	Rumor Spreading Model on Social Networks with Consideration of Remembering Mechanism Jiajia Wang, Laijun Zhao, Rongbing Huang, Yucheng Chen
M-L1.4	A Study of Sustainable Design Method about Mobile Phone Products based on the Core of Using Yu Dongjiu, Yang Wenlong
M-L1.5	Section-Agent-Based Simulation and Analysis of Urban Ring Road Traffic Stream Fangzhou Li, Xinqi Zheng, Dongsheng Hong
M-L1.6	The Effect of Mass Media Factor on Promoting Solar Energy Diffusion in Residential Consumer Market Y.Y. Guo, J.Y. Yin
M-L1.7	Batch Modeling of 3D City based on Esri Cityengine Xiaoxia Hu, Xuefeng Liu, Zhenming He, Jiahua Zhang
M-L1.8	Application of Delmia on the Simulation for Integrated Prefabricated House Shaojun Ding, Zhaoyi Deng, Wenhua Zhu, Qing Yang
M-L1.9	Modeling and Application of Digital Garden City based on Gis Zhiyuan Yuan, Xinqi Zheng, Chunlu Xue
M-L1.10	Research on the Reconstruction of City Building with Three Dimension Laser Xuqian Zhang, Wenhua Zhu, Xiang Feng, Fabien Pfaender

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M-L2 Chairs: Doan Hoang, Xiangyang Wang 13:30-15:30(12 min/paper) Haina Hall August 19, 2013, Monday

M-L2.1	An Efficient Scheme for Log Integrity Check in Security Monitoring System Ruoqing Zhang, Zhiwei Chen, Zehui Li, Yatao Yang, Zichen Li
M-L2.2	A Cloud Platform for Flow-based Analysis of Large-scale Network Traffic Wenzhao Liao, Zhiren Fu
M-L2.3	Distortion Optimized and Energy-Efficient Dynamic Video Scheduling in Virtualized Data Centers Kangning Zhu, Junni Zou, Qiong Wu
M-L2.4	A Dynamic Data Allocation Method with Improved Load-Balancing for Cloud Storage System Hong Tao, Wu Yating, Cao Bingyao, Yan ke, and Yu Fei
M-L2.5	Design and Implementation of Multi-Fpga High-Speed Access to Raid Yue Zheng, Junjie Zhang, Ke Yan, Yufei Song, Jiaqi Li
M-L2.6	A Noval Efficient Mac Protocol for Full-OFDMA PON System Bingyao Cao, Min Wang
M-L2.7	EIHJoin: An Hash Join With Building Index in Bucket in Column Store Data Warehouse Dateng Hao, Li Sun
M-L2.8	A Self-Adaptive Mechanism for Resource Monitoring in Cloud Computing Kai Lin, Weiqin Tong, Xiaodong Liu and Liping Zhang
M-L2.9	The Research of Knowledge Discovery in Database based on Application Data Pool Song Tan, Minjie Bian, Chunsheng Xu, Huahu Xu, Jue Gao
M-L2.10	Conference Mixer System based on VOIP Yiyuan Zhou, Wanggen Wan, Libing Lu, Xiaoqing Yu

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M-P1 Chairs: Ximin Zhang, Xiang Feng 13:30-17:30 Center Hall August 19, 2013, Monday

M-P1.1	Design of Embedded Voice Communication System Xuzhi Wang, Wenzhen Zhang, Xiangfei Li
M-P1.2	Real-Time 3D Graphics for Mobile Devices on Reconfigurable Hardware Xiangfei Li, Xuzhi Wang, Rong Sun
M-P1.3	Parallel Microscopic Traffic Simulation on the Basis of Road Network-Based Cellular Automata Yingying Yuan, Wanggen Wan, Ranran Chang
M-P1.4	The High-speed Optical OFDM Transmitter based on FPGA Lihui Yu, Min Wang, Junfei Feng, Xue Jiang, Yingchun Li
M-P1.5	3D Model Encoding based on Visual Perception Junli Chen, Shasha Xing, Haishan Han
M-P1.6	Face Recognition based on Skin Segmentation and Improved SOA Xi Tian, Tianchi Zhao, Meng Tian
M-P1.7	Target Positioning of Multiple Cameras for Dense Crowd based on Line-Of-Sight Constraint Qiuyu Zhu, Bo Chen
M-P1.8	Techniques of Optimizing Low Bit Rate Sinusoidal Transform Coding Haishan Han, Junli Chen, Shasha Xing, Kai Liu
M-P1.9	The Optimization of G.729A Coding Algorithm Yiyuan Zhou, Wanggen Wan, Ran Liu, Xiaoqing Yu
M-P1.10	Filtering Outliers Using Statistical Analysis on Neighbors Distances Yanlu Yin, Wanggen Wan, Ran Liu

M-P1.11	3D Sound Rendering for Virtual Environments with Octree Junwei He, Mengyao Zhu and Chengcun Gu
M-P1.12	Digital Video Channel Performance Analysis based on Eye Map Jifei Li, Peimin Yan, Xiaolong Liu, Jiumei Zhang
M-P1.13	Medical Image Enhancement based on NSCT Feng Zhou, Xiuli Ma, Yang Li, Xiaojun Zhou
M-P1.14	A Robust Pitch Tracking Method in Noisy Environment Haishan Han, Junli Chen, Shasha Xing, Kai Liu
M-P1.15	Analysis and Synthesis of Emotional Speech Ranran Chang, Xiaoqing Yu, Yingying Yuan
M-P1.16	Design of Converting Low-Rate Speech Codec between AMBE and G.729 Longfei Li, Qunfeng Huang, Wanggen Wan

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M-L3 Chairs: Arnaud Banos, W. K. Lee 15:45-17:45(12 min/paper) Shangshan Hall August 19, 2013, Monday

M-L3.1	How Reliable is Smartness? And How Smart is Reliability? W. K. Lee
M-L3.2	Toward a Trust Evaluation Model for Shanghai E-Commerce Public Service Platform Beijun Shen, Shixiong Zhao, Xin Shen, Rongbin Chen
M-L3.3	Experimental Simulation of RSOA-based OFDM-PON Transmission System Junfang Shang, Yingxiong Song, Yingchun Li, Lu Rao, Rujian Lin
M-L3.4	The Research and Implementation of Express Management System based on Campus Card Youke Liu, Chunsheng Xu, Huahu Xu, Lei Wang
M-L3.5	Internet of Knowledge: As an Infrastructure for Smart and Sustainable Marine Economy Bian Yan-shan, Wu Ling-da, Qu Tian-yu, Zhang Yi
M-L3.6	An Evaluation Method of Urban Renewal: A Case Study in Jinan, Shandong Chunlu Xue, Xinqi Zheng, Lusha Yuan, Bing Geng
M-L3.7	Classification of Mild Cognitive Impairment and Normal by Pattern Recognition of Eeg Lemple-Ziv Complexity and Alpha Power Jun Yang, Ling Wei, Jiangqiang Zhao, Yingjie Li
M-L3.8	A Weighted Mean Temperature Model Analysis on Retrieval of GPS Precipitable Water Vapor of Sahnghai Xie Yanan, Zhao Hailan, Zhang Rui, Yu Chunyan
M-L3.9	Mcilhagga Edge Detector-Based Anisotropic Diffusion for Speckle Reduction of Ultrasound Images Qi Zhang, Lijing Yang, Shuai Chen
M-L3.10	A Polarization Multiplexed Optical Coherent Modulation and Demodulation Method Research based on VPI Simulation Lu Rao, Yingchun Li, Mingzhi Mao, Junfang Shang, Yuan Tao

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M-L4 Chairs: Doan Hoang, Prof. E. Soulier 15:45-17:45(12 min/paper) Haina Hall August 19, 2013, Monday

M-L4.1	Sustainable Practices Modelisation based on “Agencement” Theory and Simplecial Complex Tools. from the Intelligent Grids to Ecological Transition for Smart Cities Prof. E. Soulier, P. Calvez
M-L4.2	Mining Users’ Interest Graph in Social Networks with Topic based Tag Propagation Hongkui Tu, Xiaodong Wang
M-L4.3	A H-K Clustering Algorithm based on Ensemble Learning Ying He, Jian Wang, Liang-Xi Qin, Lin Mei, Yan-Feng Shang, Wen-Fei Wang
M-L4.4	Interactive Proof Fusion of Multi-Source Text Knowledge based on Internet Yang Liu, Lingyu Xu, Shaochun Wu, Fei Zhong, Xiong Lu
M-L4.5	A Retrieval Model based on Spatial Cognition Fei Zhong, Lingyu Xu, Jie Yu, Yang Liu
M-L4.6	Centrality Study and Empirical Analysis of Microblog Network Jing Lu, Xiaoqing Yu, Wanggen Wan, Huanhuan Liu, Wenhui Li
M-L4.7	3D Point Cloud Deformation based on Moving Least Squares and Control Curves Rui Wang, Ren Xiao, Shuqiong Chen, Linfeng Du
M-L4.8	Object Tracker using Sparse Prototypes and Annealed Particle Filter Ying Wang, Xiangyang Wang, Shishi Duan
M-L4.9	Tweets in the City: An Analysis of When, Where and What Do We Tweet in Paris Guillaume Bouchard, Nidhi Singh and Frédéric Roulland
M-L4.10	Audio Fingerprinting based on Salient Points for Audio Retrieval Jianhua Shi, Xiaoqing Yu, Huanhuan Liu, Wei Xiong

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T-L1 Chairs: Jenq-Neng Hwang, Fang Zhu 13:30-15:30(12 min/paper) Shangsha Hall August 20, 2013, Tuesday

T-L1.1	Rhizome: A Middle-Ware for Cloud Vision Computing Framework Fang Zhu, Hong Qiu, Zhi Yong Song
T-L1.2	An Overview of Open-source Virtualization Technology Ye Jiaojiao, Shang Yanmin
T-L1.3	Depth Research on the Technology of Email Detection Xiaowei Lu, Jian Chen, Bingyao Cao
T-L1.4	Research on a Low Conflict Flow Matching Hash Algorithm Ke Yan, Jian Chen, Bingyao Cao, Yue Zheng, Tao Hong
T-L1.5	Fpga based Implementation of Low-Latency Floating-Point Exponential Function Wenyan Yuan, Zhenliu Xu
T-L1.6	Formal Description of Virtual Resources Xiaodong Liu, Weiqin Tong and Kai Lin
T-L1.7	Adopting Graph Reduction to Synthesize Parallel Computation Models Shen Chao, Liu Xiaodong, Tong Weiqin, Zhi Xiaoli
T-L1.8	4D Feature of Point Cloud based on Robust Normal Estimation Liu Ran, Wan Wanggen, Lu Libing, Zhou Yiyuan, Zhang Ximin
T-L1.9	Association Rules Mining Algorithm based on Interest Measure and Its Application in Medical Audit Junli Chen, Kai Liu, Haishan Han, Shasha Xing
T-L1.10	The Simplification and Boundray Extraction of the Point Cloud based on Saliency Zhang Ximin, Yu Xiaoqing, Wan Wanggen, Zhao Xianlin, Zhou Xueli, Liu Ran

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T-L2 Chairs: Mengyao Zhu, B. Beckers 13:30-15:30(12 min/paper) Haina Hall August 20, 2013, Tuesday

T-L2.1	An Adaptive 3D Model for Solar Optimization at the Urban Scale Raphaël Nahon, Thibaut Vermeulen, Benoit Beckers
T-L2.2	Intensive Land Use Planning for Langfang based on GIS Chunyun Song, Xinqi Zheng, Di Zhang
T-L2.3	The Impact of Individual Differences on the Spreading of Epidemic Q. Wang, L.J. Zhao, R.B. Huang
T-L2.4	A Synchronization Position Control Method based on Dynamic Particle Swarm Optimization Algorithm in Electro-Hydraulic Servo System Linghong Lai
T-L2.5	Gender Differences in Microblogging Usage and Motivation Ying Qian, Shoujin Wang
T-L2.6	3D Virtual City Rendering and Real-Time Interaction based on UC-win/Road Xinyu Yan, Wanggen Wan, Juan Zhang
T-L2.7	Measuring User Influence and Message Propagation on Local Network Huanhuan Liu, Xiaoqing Yu, Jing Lu
T-L2.8	Visual Simulation of Weathering on Models Libing Lu, Wanggen Wan, Ran Liu, Yiyuan Zhou, Ximin Zhang
T-L2.9	GANN-based Prediction of Fresh Water Resources Cuiyun Gao, Linbo Jin, Wanggen Wan, Rui Wang
T-L2.10	Research of Building Model Reconstruction based on Adaptive Clustering ShashaXing, JunliChen, KaiLiu, HaifengYu

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T-P1 Chairs: Hongxue Wang, Jing Lu 13:30-17:30(12 min/paper) Center Hall August 20, 2013, Tuesday

T-P1.1	The Simplification of 3D Color Point Cloud based on Voxel Zhang Ximin, Yu Xiaoqing, Wan Wanggen, Ma Junxing, Lai Qingmin, Lu Libing
T-P1.2	The Model of User Personalized Recommendation based on Cloud Computing Yifan Jia, Taiyan Hao
T-P1.3	Cluster-Based Three-Dimensional Non-Uniform Mesh Simplification Algorithm Chao Yang, Xiaoqing Yu, Xuannan Ye
T-P1.4	Transportation Simulation in 3D Virtual City based on UC-win/Road Xinyu Yan, Wanggen Wan, Juan Zhang
T-P1.5	Simplification of Point Cloud Data based on Gaussian Curvature Kai Liu, Junli Chen, Shasha Xing, Haishan Han
T-P1.6	A New Method for Blending Two Parametric Curves on the Sphere Zhenghua Zhou, Wanggen Wan
T-P1.7	Research of Personnel Evacuation based on Lattice Gas Model Xuannan Ye, Wanggen Wan, Chao Yang
T-P1.8	Topology Analysis and Clustering for Localized Network in Sina Weibo Wenhui Li, Xuzhi Wang, Qiuyu Zhu
T-P1.9	Normal Estimation Algorithm for Point Cloud using Kd-tree Liu Ran, Wan Wanggen, Zhou Yiyuan, Lu Libing, Zhang Ximin
T-P1.10	The Design of Timetable in School System Libing Lu, Wanggen Wan, Yiyuan Zhou, Ran Liu, Ximin Zhang

T-P1.11	Simulation of Combined Head and Room Impulse Response based on Sound Ray Tracing in Frequency Domain Junwei He, Mengyao Zhu
T-P1.12	A New Image Fusion Method based on Compressed Sensing Linfeng Du, Rui Wang, Jiani Qin, Zongxin Yu
T-P1.13	Application of K-Means Clustering Algorithm in Sina Microblog Yupu Ding, Xiaoqing Yu, Jing Lu
T-P1.14	An Adaptive Threshold Algorithm based on Wavelet in Qrs Detection Yang Li, Xiuli Ma, Feng Zhou
T-P1.15	An Improved Audio Fingerprinting Algorithm with Robust and Efficient Wei Xiong, Xiaoqing Yu, Jianhua Shi
T-P1.16	Identifying TOP-N Opinion Leaders on Local Social Network Huanhuan Liu, Xiaoqing Yu, Jing Lu

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T-L3 Chairs: Jenq-Neng Hwang, Muhammad Khalil Afzal 15:45-17:45(12 min/paper) Shangshan Hall August 20, 2013, Tuesday

T-L3.1	Link Quality Aware Local Repair in AODV-based Ad-Hoc Networks Muhammad Khalil Afzal, Hyun-Ho Shin, Byung-Seo Kim, and Sung Won Kim
T-L3.2	PMT: A Procedure Migration Tool from Oracle to PostgreSQL Mengying Zhang
T-L3.3	Sampling Clock Synchronization with Pid Controller for Optical OFDM Systems Junchao Chen, Yingchun Li, Yuan Tao, Mingzhi Mao, Xi Chen
T-L3.4	A Simple Sampling Clock Synchronization Method for Filter-Based OFDM-FDMA Systems Yuan Tao, Yingchun Li, Mingzhi Mao, Junchao Chen, Lu Rao, Xi Chen
T-L3.5	A Blind Digital Image Watermarking Algorithm based on DCT Chunhua Li, Zhiying Qin
T-L3.6	Mobile Learning for Professional Situations in Smart City Chuantao Yin, Bingxue Zhang, Wenge Rong, Bertrand David, Zhang Xiong
T-L3.7	The Research and Realize of Point Cloud Registration based on Target Balls Xiaoqing Yu, Liang Liu, Ran Liu, Libing Lu
T-L3.8	Design and Implementation of Video-Based Detection System for Wharf Ship Qiuyu Zhu, Yilong Jiang, Bo Chen
T-L3.9	Music Retrieval System Using Chroma Feature and Notes Detection Wei Xiong, Xiaoqing Yu, Jianhua Shi
T-L3.10	Sequence Slices Enhancement of Peripheral Nerve based on Surfacelet Transform Feng Zhou, Xiuli Ma, Xiaojun Zhou, Xia Chen

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T-L4 Chairs: Mengyao Zhu, Amna Almarwani 15:45-17:45(12 min/paper) Haina Hall August 20, 2013, Tuesday

T-L4.1	Door Wave Home Automation System Amna Almarwani, Lulwah Alqarni, Hanadi Hakami, Zenon Chaczko, Min Xu
T-L4.2	The Light-Weighting Realization of Video Structured Description on Android-Based Terminals Zhiguo Yan, Zekun Liu, Hongzhou Zhang, Jian Wang, Xuan Cai, Chun Pan, Di Wu, Fang Yang
T-L4.3	A Rule-Based Instantaneous Denoising Method for Impulsive Noise Removal in Range Images Jian Wang, Zhen-qiang Yao, Wen-fei Wang, Lin Mei
T-L4.4	Detection of Volcanic Ash Cloud based on Split Window Brightness Temperature Difference Method Di Shen, Chengfan Li, Jingyuan Yin, Jiangshan Dong
T-L4.5	Vehicle Logo Recognition based on Deep Learning Architecture in Video Surveillance for Intelligent Traffic System Chun Pan, Zhiguo Yan, Xiaoming Xu, Mingxia Sun, Jie Shao, Di Wu
T-L4.6	Novel Wavelength-Reuse WDM-PON Architecture with Double Cover Area and High Network Capacity Yan Gong, Chaoqin Gan, Chenwei Wu, Xuejiao Ma
T-L4.7	A Novel Liquid Level Monitoring Sensor System using a Fiber Bragg Grating Lingtao Meng, Yunqi Liu, Tingyun Wang
T-L4.8	An Improved Reed-Solomon Coding based on Channel-Assisted Power Loading Algorithm Rsoa-Based Imdd OFDM Transmission System Junfei Feng, Yingxiong Song, Lihui Yu, Qianwu Zhang, Yingchun Li
T-L4.9	Analysis of BER Performance in DDO-OFDM Mingzhi Mao, Rujian Lin, Junchao Chen, Min Wang, Yuan Tao, Lu Rao
T-L4.10	Face Orientation Detection in Video Stream based on Harr-Like Feature and LQV Classifier for Civil Video Surveillance Zhiguo Yan ^{1,2} , Fang Yang ³ , Jian Wang ^{2*} , Yongjie Shi ² , Chao Li ³ , Mingxia Sun