Conference Schedule

	November 5th, 2017
15:00 | 17:00	**Registration** *Lobby*

	November 6st, 2017
09:00 | 16:00	**Registration** *Registration Desk* on the M3F (In front of the elevator)
09:30 | 09:50	**Opening** *BANQUET HALL* on the M3F
09:50 | 10:40	**Keynote Speech (I): On Entrepreneurship at the Industry 4.0 Era** **by Prof. JrJung Lyu** *BANQUET HALL* on the M3F
10:40 | 11:00	**Coffee Break** *BANQUET HALL* on the M3F
11:00 | 11:50	**Keynote Speech (II): Principles and Practice of Connectivity and Convergence** **by Dr Shoumen Palit Austin Datta** *BANQUET HALL* on the M3F
12:00 | 14:00	**Lunch** *BANQUET HALL* on the M3F
14:00 | 15:20	**Session A01** **Smart Vehicular Technology** Balsam Room on the 7th Floor
15:20 | 15:40	**Coffee Break** *BANQUET HALL* on the M3F
15:40 | 17:00	**Session A03** **Smart Wireless Access Technology** Balsam Room on the 7th Floor
17:30	**Reception Dinner** *Champs Elysees* on 5F

November 7nd, 2017		
08:30 | 16:00	**Registration** *The corridor* on the 7F	
09:00 | 10:20	**Session B01** **Applied Mathematics and It Applications** Balsam Room on the 7th Floor	**Session B02** **Intelligent Railway Technology (I)** Phoenix Room on the 7th Floor
10:20 | 10:40	**Coffee Break** Golden Dragon Hall – II on the 7th Floor	
10:40 | 12:00	**Session B03** **Innovative Intelligent Computation Technology (I)** Balsam Room on the 7th Floor	**Session B04** **Intelligent Railway Technology (II)** Phoenix Room on the 7th Floor
12:00 | 14:00	**Lunch** Golden Dragon Hall – II on the 7th Floor	
14:00 | 15:20	**Session B05** **Innovative Intelligent Computation Technology (II)** Balsam Room on the 7th Floor	
15:20 | 15:40	**Coffee Break** Golden Dragon Hall – II on the 7th Floor	
15:40 | 17:00	**Session B07** **Innovative Electrical Technology (I)** Balsam Room on the 7th Floor	
17:30	**Banquet** Golden Dragon Hall – I on the 7th Floor	

November 8rd, 2017	
08:40 | 11:00	**Registration** *The corridor* on the 7F
09:00 | 10:00	**Session C01** **Innovative Electrical Technology (II)** Balsam Room on the 7th Floor
10:00 | 10:20	**Coffee Break** Golden Phoenix Room– II on the 7th Floor
10:20 | 11:05	**Session C02** **Smart Technologies and Applications** Balsam Room on the 7th Floor
11:30	**Lunch** *Champs Elysees* on 5F

Session A01: Smart Vehicular Technology

Session Chairs:
Prof. Shi-Huang Chen, Shu-Te University

Paper No.: VTCA-2017-IS0501
Paper Title: Easy *i* -Move: Structured Image Recognition Solution for Auto Guided Vehicles
Author(s): Yen-Hui Kuo, Shu-Hui Lin, and Eric Hsiao-Kuang Wu

Paper No.: VTCA-2017-IS0402
Paper Title: Evaluating Multi-dimensional Abilities of Bus Drivers
Author(s): Ting-An Kuo, Chiuhsiang Joe Lin, and Po-Hsiang Liu

Paper No.: VTCA-2017-IS0201
Paper Title: Predicting the Travel Time in Using Recurrent Neural Networks: A Case Study of Fuzhou
Author(s): Luming Li and Xinhua Jiang

Paper No.: VTCA-2017-IS0214
Paper Title: Driving Behavior Motivation Model Research Based on Vehicle Trajectory Data
Author(s): Yun Chen, Xinhua Jiang, Lyuchao Liao, Fumin Zou, and Meirun Zhang

Paper No.: VTCA-2017-IS0215
Paper Title: A Ranging Algorithm for Mobile Vehicles Based on Kalman Filter
Author(s): Junmin Wang, Fumin Zou, Maolin Zhang, Lyuchao Liao, and Yaxue Pang

Paper No.: VTCA-2017-IS0502
Paper Title: The Evaluation of the Video Codec Performances on the Driving Recorder with Different Vehicle Speeds
Author(s): Shi-Huang Chen, Zhi-Quan Huang, Wen-Kai Liu, and Jui-Yang Tsai

Session A03: Smart Wireless Access Technology

Session Chairs:
Prof. Tang-Hsien Chang, Fujian University of Technology

Paper No.: VTCA-2017-0015
Paper Title: An Implementation of Relay Function based on LTE Technology for Multi-UAV Communication
Author(s): Weng-Chung Tsai, Nien-Ting Huang, Shih-Hsuan Lin, and Mao-Lun Chiang

Paper No.: VTCA-2017-0022
Paper Title: Tendency of Connected VIP and ITS Evolution
Author(s): Tang-Hsien Chang, Ying-Chih Lu, and Xiao-Ting Dai

Paper No.: VTCA-2017-IS0206
Paper Title: Join I/Q Imbalance Compensation and Channel Equalization Algorithm for STBC MIMO-OFDM Systems
Author(s): Chih-Feng Wu, Yi-Hung Lin, Muh-Tian Shiue, and Jeng-Shyang Pan

Paper No.: VTCA-2017-0080
Paper Title: A Constructive Problem-based Course Design for Internet Of Things
Author(s): Xiaohu Ma, Yeh-Jong Pan, Fang Chen, Xinyi Ding, and Shih-Pang Tseng

Session B01: Applied Mathematics and It Applications

Session Chairs:
Prof. Lin Xu, Fujian Normal University

Paper No.: VTCA-2017-IS0301
Paper Title: Time Domain Acoustic Scattering from Locally Perturbed Flat Substrates
Author(s): Bo Chen, Fuquan Zhang, Lin Xu, and Minghui Liu

Paper No.: VTCA-2017-0036
Paper Title: Adversarial Multiarmed Bandit Problems in Gradually Evolving Worlds
Author(s): Chia-Jung Lee, Yalei Yang, Sheng-Hui Meng, and Tien-Wen Sung

Paper No.: VTCA-2017-IS0302
Paper Title: A Video Coloring Method Based on CNN and Feature Point Tracking
Author(s): George Guan, Fuquan Zhang, Gangyi Ding, Meng Niu, and Lin Xu

Paper No.: VTCA-2017-IS0306
Paper Title: Opinion Target Extraction for the Chinese Formal Text Based on Dependency Relations
Author(s): Xiaoyan Yang, Ge Xu, Fuquan Zhang, Xiangwen Liao, and Lin Xu

Paper No.: VTCA-2017-IS0221
Paper Title: Power Supply Loss Riding Through Method for High-Voltage Great-Power Cascaded H-Bridge Multilevel Inverters
Author(s): Xinjian Cai, Tianjian Li, and Jiaxin Chen

Session B02: Intelligent Railway Technology (I)

Session Chairs:
Prof. Shaoquan Ni, Southwest Jiaotong University

Paper No.: VTCA-2017-0042
Paper Title: Railway Train Working Diagram Plan System
Author(s): Shaoquan Ni, Miaomiao Lyu, and Hongxia Lv

Paper No.: VTCA-2017-0046
Paper Title: Railway Passenger Service Mode on "Internet +"
Author(s): Tao Chen, Zhenning Zhou, Jieru Zhang, and Shaoquan Ni

Paper No.: VTCA-2017-0049
Paper Title: Design of High Speed Train Operation Plan Simulation System
Author(s): Dingjun Chen, Xinyi Lin, Hui Zhang, and Kaiteng Wu

Paper No.: VTCA-2017-0059
Paper Title: Service Quality Evaluation of Railway Freight Transportation Network Based on Bayes Theory
Author(s): Xuepeng Zhang, Shengdong Li, Xiucong Li, Xinyi Lin, and Xiaoyuan Lv

Session B03: Innovative Intelligent Computation Technology (I)

Session Chairs:
Prof. Fuquan Zhang, Minjiang Univeristy & Beijing Institute of Technology

Paper No.: VTCA-2017-0006
Paper Title: Design of Gear Reducer Based On FOA Optimization Algorithm
Author(s): Xiaojia Lin, Fuquan Zhang, and Lin Xu

Paper No.: VTCA-2017-IS0304
Paper Title: A Bidirectional Collaborative Filtering Recommender System Based on EM algorithm
Author(s): Yu Mao, Fuquan Zhang, Lin Xu, Dakui Zhang, and Hui Yang

Paper No.: VTCA-2017-0077
Paper Title: A Novel Hyrid GWO-FPA Algorithm for Optimization Applications
Author(s): Jeng-Shyang Pan, Thi-Kien Dao, Shu-Chuan Chu, and Trong-The Nguyen

Paper No.: VTCA-2017-0018
Paper Title: Transfer Knowledge Based Evolution of An External Population for Differential Evolution
Author(s): Zhenyu Meng, Jeng-Shyang Pan, and Xiaoqing Li

Session B04: Intelligent Railway Technology (II)

Session Chairs:
Prof. Shaoquan Ni, Southwest Jiaotong University

Paper No.: VTCA-2017-0064
Paper Title: Train Headway Calculation and Simulation System for High-speed Railway
Author(s): Guolong Gao, Jie Zhang, Wenjing Lai, and Yuchao Xin

Paper No.: VTCA-2017-0069
Paper Title: Train Scheduling for Heavy Haul Railway
Author(s): Pei Wang, Jie Zhang, Baoheng Feng, and Wengao Peng

Paper No.: VTCA-2017-0072
Paper Title: Research on Train Delay Diagnosis in Train Diagram Based on Big Data Technology
Author(s): Yong Zhang, Wenqing Li, Shaoquan Ni, and Xiaowei Liu

Session B05: Innovative Intelligent Computation Technology (II)

Session Chairs:
Prof. Lin Xu, Fujian Normal University

Paper No.: VTCA-2017-IS0208
Paper Title: Directional Shuffled Frog Leaping Algorithm
Author(s): Lingping Kong, Jeng-Shyang Pan, Shu-Chuan Chu, and John F. Roddick

Paper No.: VTCA-2017-IS0305
Paper Title: Review of Intelligent Computing Application
Author(s): Yiou Wang, Tianyuan Liu, Fuquan Zhang, Lin Xu, Gangyi Ding, Rui Xiong, and Fei Liu

Paper No.: VTCA-2017-IS0303
Paper Title: Seam Carving Algorithm Based on Saliency
Author(s): Wen Lin, Fuquan Zhang, Renbao Lian, Lin Xu, Xueyun Chen, and Linghong Kuang

Session B07: Innovative Electrical Technology (I)

Session Chairs:
Prof. Sheng-Hui Meng, Fujian University of Technology

Paper No.: VTCA-2017-IS0209

Paper Title: An Artificial Indoor Farm that Subverts Traditional Farming Patterns

Author(s): Deyao Lin, Sheng-Hui Meng, and Shuhua Lin

Paper No.: VTCA-2017-IS0222

Paper Title: Graphene Saturable Absorption and Applications in Fiber Laser

Author(s): Hancong Wang, Jinyang Lin, and Shihao Huang

Paper No.: VTCA-2017-IS0205

Paper Title: Adaptive Nonsmooth Attitude Tracking Control of Quadrotor UAV with Dynamic Uncertainties

Author(s): Dongwei He, Pei Gao, Lisang Liu, Xuecheng Jiang, and Jishi Zheng

Paper No.: VTCA-2017-IS0207

Paper Title: Design of the Classroom Intelligent Light Control System based on ARM9

Author(s): Xiuzhen Zhang and Lisang Liu

Paper No.: VTCA-2017-IS0401

Paper Title: The Integration of DFX Principles with TRIZ for Product Design - A Case Study of Electric Scooter

Author(s): Tien-Lun Liu, Yi-Chen Li, and Ji-Ze Xiao

Session C01: Innovative Electrical Technology (II)

Session Chairs:
Prof. Ying-Chung Chen, National Sun Yat-Sen University

Paper No.: VTCA-2017-IS0211
Paper Title: On Linear Precoding of Unitary Space-Time Modulation for Spatial-Temporal Correlated Flat Fading Channel
Author(s): Caihong Yu, Kejun Jia, and Zheng Yang

Paper No.: VTCA-2017-IS0210
Paper Title: Design for Intelligent Control System of Curtain Based on Arduino
Author(s): Sheng-Hui Meng, An-Chi Huang, Chia-Jung Lee, Tian-Jiun Huang, and Jian-Nan Dal

Paper No.: VTCA-2017-0032
Paper Title: Simulation and Modeling of a Solidly Mounted Resonator
Author(s): Sheng-Hui Meng, An-Chi Huang, and Ying-Chung Chen

Session C02: Smart Technologies and Applications (Post Session)

Paper No.: VTCA-2017-IS0203
Paper Title: Application of Double-hidden Layer BP Neural Network in Transformer Fault Alarm
Author(s): Xin Su, Xinhua Jiang, Shunmiao Zhang, and Yao He

Paper No.: VTCA-2017-IS0212
Paper Title: Designing a Lightweight Cipher Algorithm Based on Chaos Theory and LoRaWAN
Author(s): Chunlei Fan and Qun Ding

Paper No.: VTCA-2017-IS0213
Paper Title: Prediction of Hourly Power Consumption for a Central Air-conditioning System Based on Different Machine Learning Methods
Author(s): Siqi Gao, Fumin Zou, Xinhua Jiang, Lyuchao Liao, and Yun Chen

Paper No.: VTCA-2017-IS0216
Paper Title: Research on Ships Collision Avoidance Based on Chaotic Particle Swarm Optimization
Author(s): Lisang Liu, Dongwei He, Ying Ma, Tianjian Li and Jianxing Li

Paper No.: VTCA-2017-IS0217
Paper Title: Research on the Complexity of Binary Chaotic Sequences
Author(s): Chunyuan Liu, Qun Ding, and Wei Xu

Paper No.: VTCA-2017-IS0218
Paper Title: Chaotic Sequence Generator Based on m Sequence Perturbation
Author(s): Chuanfu Wang and Qun Ding

Paper No.: VTCA-2017-IS0219
Paper Title: Electromagnetic Compatibility Analysis of PIND Equipment for Rocket Engine Attached Pipes
Author(s): Guotao Wang, Qun Ding, Leizhen Gao, Qiang Wang, and Liang Guo

Paper No.: VTCA-2017-IS0220
Paper Title: Research on Multiple Classifiers Combination Method for Remote Sensing Images
Author(s): Aiping Jiang, Shengjie Xiao, Longyun Wei, and Yanlin Zhu

Paper No.: VTCA-2017-IS0202
Paper Title: Compact Evolutionary Algorithm Based Ontology Meta-matching
Author(s): Xingsi Xue and Shijian Liu

Paper No.: VTCA-2017-IS0204
Paper Title: Research on Detection Algorithm of Roadway Intersection Rule Detection Based on Big Data
Author(s): Meirun Zhang, Fumin Zou, Yanling Deng, Xinhua Jiang, Lvchao Liao, and Yun Chen