

The 24th International Conference on Automation and Computing (ICAC'18) (Parallel Session index)

10:45 - 12:15 07/09/2018

Parallel Sessions (A-1, A-2, A-3, A-4, A-5, A-6)

Time	A-1 Control Applications 1 Venue: L101 Chair: Jiacun Wang, Wen-Hua Chen	A-2 Information System 1 Venue: L201 Chair: Hongji Yang, Xisong Chen	A-3 Manufacturing System 1 Venue: L202 Chair: Erfu Yang, Yuchun Xu	A-4 Computer Vision and Computer Graphics 1 Venue: L301 Chair: Peng Yang, Jie Zhang	A-5 Condition Monitoring and Systems 1 Venue: L302 Chair: Gui Yun Tian, Xiandong Ma	A-6 Network Application and Security 1 Venue: L303 Chair: Yi Cao, Xuewu Dai
10:45 - 11:00	A-1.1 #2 <i>Qichun Zhang, Liang Hu, John Gow</i> Output Feedback Stabilization for Dynamic MIMO Semi-linear Stochastic Systems with Output Randomness Attenuation	A-2.1 #8 <i>Ahmed Al-Zurfi, Farid Meziane and Rob Aspin</i> Automated Glioma Grading based on an Efficient Ensemble Design of a Multiple Classifier System using Deep Iteration Neural Networks Matrix	A-3.1 #47 <i>Nico Sun, Erfu Yang, Jonathan Corney, Yi Chen and Zeli Ma</i> A review of high-level robot functionality for elderly care	A-4.1 #4 <i>Asaad F. Qasim, Farid Meziane, Rob Aspin</i> A Reversible and Imperceptible Watermarking Scheme for MR Images Authentication	A-5.1 #3 <i>Moner Alsader and Al Savvaris</i> Integrated Power Management for Energy Harvesters in Aircraft	A-6.1 #81 <i>Fehda Malik, Munam Ali Shah, Hasan Ali Khattak</i> Intelligent Transport System: An Important Aspect of Emergency Management in Smart Cities
11:00 - 11:15	A-1.2 #57 <i>Xiaoke Su, Hong Yue</i> Cost Minimization Control for Smart Electric Vehicle Car Parks	A-2.2 #18 <i>Raid Alzubi, Naeem Ramzan, Hadeel Alzoubi, Stamos Katsigiannis</i> SNPs-based Hypertension Disease Detection via Machine Learning Techniques	A-3.2 #88 <i>Haojie Chen, Ruoxin Wang, Jian Zhang, Rong Li, Lei Jiang, Shengfeng Qin</i> Research on Reinforcement Learning to Solve Batch Dynamic Job Shop Scheduling Problem with Machine Breakdown	A-4.2 #84 <i>Quan Qi, Qingde Li, Qingqi HONG</i> Skeleton Marching: A High-performance Parallel Vascular Geometry Reconstruction Technique	A-5.2 #96 <i>Xiaoli Tang, Zainab Mones, Xianghong Wang, Fengshou Gu, Andrew D. Ball</i> A Review on Energy Harvesting Supplying Wireless Sensor Nodes for Machine Condition Monitoring	A-6.2 #52 <i>Muhammad Farhan Ali, Munam Ali Shah</i> Adaptive Transmission Power – Geographical and Energy Aware Routing Algorithm for Wireless Sensor Networks
11:15 - 11:30	A-1.3 #6 <i>Alaa Al-Ibadi, Samia Nefti-Meziani, Steve Davis, Theo Theodoridis</i> Design of Two Segments Continuum Robot Arm Based on Pneumatic Muscle Actuator (PMA)	A-2.3 #27 <i>Omair Ahmad Khan, Munam Ali Shah, M Salman, Abdul Hannan, M. Haris, Tayyab khan, Nouman Ejaz</i> NDN Based Communication for Fragmented Network: The Case of Smart Metropolitan (MAN)	A-3.3 #151 <i>Pengfei Fan, Xichun Luo</i> Scanning Probe Lithography (SPL) Nanofabrication Approach	A-4.3 #43 <i>Sahib Khan, Muneeza Wahid, Tawab Khan, Nasir Ahmad, Muhammad Haseeb Zafar</i> Column Level Image Authentication Technique using Hidden Digital Signatures	A-5.3 109 <i>U Khan, P Lazaridis, H Mohamed, D Upton, K. Mistry, B Saeed, P Mather, R C Atkinson, C Tachtatzis, I A Glover</i> Received Signal Strength Intensity Based Localization of Partial Discharge in High Voltage Systems	A-6.3 #71 <i>Yan Zong, Kexin Luo, Xuewu Dai, Zhiwei Gao</i> Implementation of Timestamped Pulse-Coupled Oscillators in IEEE 802.15.4 Networks
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Lunch (Buttery, level 4, Merz Court)

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Photo Session

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14:15 - 14:30	P1-1.4 #59 <i>Yaqi Ren, Hao Sun, Yin Tang, Shuopeng Wang</i> Vision Based Object Grasping of Robotic Manipulator	P1-2.4 #65 <i>Wajeaha Hamid, Munam Ali Shah</i> AWS Support in Open Source Mano Monitoring Module	P1-3.4 #86 <i>Waqar Ali, Tanveer Ahmad, Zobia Rehman, Anwar Ur Rehman, Munam Ali Shah, Ansar Abbas, Ghulam Dustgeer</i> A Novel Framework for Plagiarism Detection: A Case Study for Urdu Language	P1-4.4 #119 <i>Muhammad M. Ali, Alison Griffiths, Mohammad S. Hasan</i> Study of Brain Signal Extraction, Processing and Implementation	P1-5.4 #93 <i>Zainab Mones, Dong Zhen, Ibrahim Alqatawneh, Qiang Zeng, Fengshou Gu, Andrew D. Ball</i> Fault Diagnosis of Planetary Gearboxes via Processing the On-Rotor MEMS Accelerometer Signals	P1-6.4 #105 <i>Rida Rashid, Munam Ali Shah</i> EK-Healthcare: Effectiveness of IoT in the Medical Field with Enhanced Features
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Coffee Break (Buttery, level 4, Merz Court) and poster viewing (L302, L303)

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15:45 - 16:00	P2-1.2 #154 <i>Ilyas Lahlouh, Ahmed Elakkary, Nacer Sefiani</i> State Feedback controller in a closed poultry house system	P2-2.2 #183 <i>Wenli Ji, Minsi Chen, Julie Davies, Zhijie Xu, Bin Wang, Kang Sun</i> The Development of a RFID-based Smart Pipeline Tracking and Information Management System	P2-3.2 #112 <i>Samir Alabied, Usama Haba, Alsadak Daraz, Fengshou Gui, Andrew D. Ball</i> Empirical Mode Decomposition of Motor Current Signatures for Centrifugal Pump Diagnostics	P2-4.2 #140 <i>Pir Masoom Shah, Adnan zeb, Uferah Shafi, Syed Farhan Alam Zaidi, Munam Ali shah</i> Detection of Parkinson Disease in Brain MRI using Convolutional Neural Network	P2-5.2 #131 <i>Emilios Leonidas, Yuchun Xu</i> The Development of an Automatic Inspection System Used for the Maintenance of Rail Tunnels	P2-6.2 #142 <i>Elias Eze, Joy Eze, Sijing Zhang, Enjie Liu</i> Spectrum Requirement for Efficient Wireless Communication over Vehicular Networks
16:00 - 16:15	P2-1.3 #182 <i>Peng Yang, Jianjun Sun, Jie Wang, Gaowei Zhang, Yan Zhang, Lingling Chen, Tuo Wang</i> Sliding Mode Control for Wearable Exoskeleton based on Disturbance Observer	P2-2.3 #158 <i>Umer Asghar Chattha, Rida Rashid, Hafiz Muhammad Zubair Makki, Munam Ali Shah</i> A Systematic literature Review of Software Quality Assurance Implications	P2-3.3 #121 <i>Alsadak Daraz, Samir Alabied, Ann Smith, Fengshou Gu, Andrew D. Ball</i> Detection and Diagnosis of Centrifugal Pump Bearing Faults Based on the Envelope Analysis of Airborne Sound Signals	P2-4.3 #169 <i>Shuopeng Wang, Peng Yang, Hao Sun, Mai Liu</i> Fingerprint-based Sound Source Localization Using Iterative Interpolation Method	P2-5.3 #138 <i>Robin Appadoo, Yuandong Xu, Fengshou Gu, Andrew D. Ball</i> Performance Monitoring and Fault Diagnosis of Vacuum Pumps based on Airborne Sounds	P2-6.3 #143 <i>Shehu Jabaka Muhammad, Sijing Zhang, Vladimir Dyo</i> Timely and Efficient Multihop Broadcast Scheme for Reliable Inter-Vehicular Communication
16:15 - 16:30	P2-1.4 #201 <i>Yaser Alothman, Dongbing Gu</i> Using Constrained NMPC to Control a Cable-Suspended Payload With Two Quadrotors	P2-2.4 #196 <i>Xiaochun Zhang, Qing Duan, Hongji Yang</i> Scale Detection Based on Maximum Entropy Principle	P2-3.4 #133 <i>Bing Wang, Junyou Sun, Wenzhe Wang, Zhengfang Xu, Tao Tian, Yiyi Wang, Jiao Wei</i> Real Time Detection of Traffic Signal Running State and Remote Alarm for Fault Information at Road Intersection	P2-4.4 #188 <i>Kun Liu, Haowei Yan, Kai Meng</i> A new iteration tensor voting algorithm for crack defect detection on multi-crystal solar cells	P2-5.4 #160 <i>Zijian Guo, Hao Ye, Wei Dong, Xiang Yan, Yindong Ji</i> A Fault Detection Method for Railway Point Machine Operations Based On Stacked Autoencoders	P2-6.4 #144 <i>Maham Qayyum, Wajeaha Hamid, Munam Ali Shah</i> Performance Analysis of Snort using Network Function Virtualization
16:30 - 16:45	P2-1.5 #44 <i>Mifeng Ren, Qichun Zhang, Jianhua Zhang</i> A Survey of the Probability Density Function Control for Stochastic Dynamic Systems	P2-2.5 #198 <i>Bushra Zaheer Abbasi, Shahid Hussain, Shaista Bibi, Munam Ali Shah</i> Impact of Membership and Non-membership Features on Classification Decision: An Empirical Study for Appraisal of Feature Selection Methods	P2-3.5 #204 <i>Yueqi Wu, Xiandong Ma</i> Kullback-Leibler divergence based wind turbine fault detection	P2-4.5 #26 <i>Khalil Khan, Ikram Syed, Muhammad Sarwar Khan, Muhammad Ehsan Mazhar, Irfan Uddin, Nasir Ahmad</i> FPL—An End-to-End Face Parts Labeling Framework	P2-5.5 #203 <i>Junzhen Zhu, Zijun Wang, Guiyun Tian</i> Comparative Study of Eddy Current Pulsed and Long Pulse Optical Thermography for Defect Detection in Aluminium Plate	P2-6.5 #108 <i>Umair Amin, Munam Ali Shah</i> A Novel Authentication and Security Protocol for Wireless Adhoc Networks
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Closing and prize giving ceremony (L101)

18:00 - 20:00 07/09/2018

Conference Banquet

Poster session venue: L302, L303

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Performance Evaluation of String Based Malware Detection Methods

Poster 2, #13

Fangmin Cheng, Suihuai Yu, Jianjie Chu and Jiashuang Fan

Research on Manufacturing Resources Optimal Allocation Strategy of 3D Printing Cloud Service Platform

Poster 3, #15

Weichen Yang, Shihong Miao, Yaowang Li, Binxin Yin, Junyao Liu

A Source-Load Coordination Scheduling Strategy Based on PSO algorithm and Parallel Computing

Poster 4, #19

Pengyu Qiao, Dan Niu, Jie Wang, Xiaojun Wang, Xisong Chen, Xiangyu Wang

Design and Implementation of Micromirror Drive Control System for MEMS Based NIR Spectrometer

Poster 5, #21

Lichen Zhang

Designing Smart Cyber Physical Systems Using ModelicamI

Poster 6, #22

Lichen Zhang

Modelling Cloud Based Cyber Physical Systems Based on AADL

Poster 7, #23

Lichen Zhang, Dandan Lai, Bingqing Xu, Chunyao Liu

Scheduling Algorithms for Cloud Based Cyber-Physical Systems Specification

Poster 8, #24

Lichen Zhang

Spatio-Temporal Specification for Mobile Cyber Physical System

Poster 9, #25

Zhang Xiang, Xu Xiaojun, Pan Cunyun

Performance Improving of a Multidimensional Suspension System

Poster 10, #31

Kai Zhou, Fei Long

Sentiment Analysis of Text Based on CNN and Bi-directional LSTM Model

Poster 11, #32

Chao Tang, Rustam Stolkin, Chunling Hu, Huosheng Hu, Xiaofeng Wang, Zhou Le

Selective Ensemble Learning based Human Action Recognition Using Fusing Visual Features

Poster 12, #38

Chunling Hu, Gang Lv, Xiaofeng Wang

A Bucket-Tree Based Algorithm for Automated Reasoning

Poster 13, #39

Dan Niu, Zhenguo Kuang, Xisong Chen, Shuang Wei, Jun Yang, Xiangyu Wang

Optimizing Pump Scheduling for Water Supply through Improved Multiple Population Genetic Algorithm

Poster 14, #41

Ningli Wang, Hao Feng

Torque ripple and its minimization method of switched reluctance motor

Poster 15, #50

Hafsa Iqbal, Shoab Ahmad Khan

Selective Mapping: Implementation of PAPR Reduction Technique in OFDM on SDR Platform

Poster 16, #51

Wenhua Li, Lei Wang, Long Wang, Jiafan Jing

A model based on eye movement data and artificial neural network for product styling evaluation

Poster 17, #60

Tao Liang, Gaiwen Yang, Yulan Dong, Siqi Qian, Yan Xu

Predicting Temperatures of Wind Turbine Gearbox by a Variable-Weight Combined Model

Poster 18, #61

Zhonglin Mo, Jianhong Ma

DocNet: A document embedding approach based on neural networks

Poster 19, #62

Tao Liang, Siqi Qian, Yingjuan Zhang, Gaiwen Yang, Huan Shi

Condition monitoring of wind turbine based on parameter optimization of genetic algorithm

Poster 20, #90

Ha Anh Minh Tran, Ha Quang Tinh Ngo, Thanh Phuong Nguyen, Hung Nguyen

Develop of AGV Platform to Support the Arrangement of Cargo in Storehouse

Poster 21, #98

Shadi M. Saleh, Sinan A. Khwandah, Wolfram Hardt, Marcus Hilbrich, Pavlos I. Lazaridis

Estimating the 2D Static Map Based on Moving Stereo Camera

Poster 22, #114

Kai Liu, Jie Zhang

Optimization of Echo State Networks by Covariance Matrix Adaption Evolutionary Strategy

Poster 23, #116

Sinan A. Khwandah, John P. Cosmas, Zaharias D. Zaharis, Pavlos I. Lazaridis, Ian A. Glover, Shadi M. Saleh

Interference Management Scheme for Co-channel Femtocells

Poster 24, #120

Jepth Thekemuriyil Philip, Omar H. Rashed, Ahmed Onsy, Martin Roy Varley

Development of a Driverless Personal Mobility Pod

Poster 25, #127

Huiming Yao, Cristian Ulianov, Feng Liu

Joint Self-learning and Fuzzy Clustering Algorithm for Early Warning Detection of Railway Running Gear Defects

Poster 26, #150

Yiming Tian, Xitai Wang, Peng Yang, Jie Wang, Jie Zhang

A Single Accelerometer-based Robust Human Activity Recognition via Wavelet Features and Ensemble Feature Selection

Poster 27, #170

Haiyong Chen, Jiali Liu, Shuang Wang, Kun Liu, Peng Yang

Robust dislocation defects region segmentation for polysilicon wafer image

Poster 28, #171

Haiyong Chen, Xiaofang Zhang, Jiali Liu, Huifang Zhao, Peng Yang

Robust Visual Detection for Vague Scratches defect in inhomogeneous surface

Poster 29, #174

Peng Zhang, Guohua Zhang, Wei Dong, Xinya Sun, Xingquan Ji

Fault Diagnosis of High-Speed Railway Turnout Based on Convolutional Neural Network

Poster 30, #178

Lianbing Li, Yazun Zhu, Linglong Wang, Donghua Yue, Duo Li

Indirect remaining useful life prognostics for lithium-ion batteries

Poster 31, #179

Zhaoming Lei, Fan Zhao, Wenzhe Liao, Pengcheng Wang

An Improved Glowworm Swarm Optimization for Vehicle Scheduling in the Iron and Steel Plant Logistics

Poster 32, #180

Zhaoming Lei, Pengcheng Wang, Wenzhe Liao, Fan Zhao

An Intelligence Scheduling Algorithm for Multicrane in the Steel Product Warehouse

Poster 33, #181

Kun Liu, Kai Meng, Haowei Yan, Haiyong Chen, Peng Yang

A self-reference scheme based on structure-texture decomposition for crack defect detection with electroluminescence images

Poster 34, #190

Lingling Chen, Zekun Yang, Cun Zhang, Jie Wang, Yaying Li

Periodic Locomotion-model Recognition Based on Electromyography of Thigh Stump

Poster 35, #191

Zhijun Li, Yanan Wang, Baihui Cui

An Improved Adaptive Harmonic Detection Algorithm

Poster 36, #192

Zhijun Li, Xiao Li, Baihui Cui

Cloud Neural Algorithm based Load Frequency Control in Interconnected Power System

Poster 37, #195

Xiangfeng Shen, Zhihua Xiong, Jie Zhang

Point-to-Point Iterative Learning Control with Piecewise Constant Inputs

Poster 38, #199

Xude Dong, Yuanping Xu, Zhijie Xu, Jian Huang, Jun Lu, Chaolong Zhang, Li Lu

A Static Hand Gesture Recognition Model based on the Improved Centroid Watershed Algorithm and a Dual-Channel CNN

Poster 39, #7

Peng Zheng, Jingwei Gao, Ruichen Wang, Jianguo Dong, Jincheng Diao

Review on the Research of Regenerative Shock Absorber

Poster 40, #12

W. P. Huneke, M. Krok

Parameter matrix delta-inverse in design of structurally stable pole-free perfect control for state-space systems