

# Room D1

	Paper No	Paper Title	Authors
<b>June 10</b> <b>08:30-10:00</b>	346	Research on Short-Circuit Discharge Behavior of Capacitive Circuits Based on Safety Spark Test Apparatus	Shulin Liu and Yongxiu Zhao
	142	Design and Implementation of Motion Control System for Insertion Devices at Taiwan Photo Source	Chun-Yi Wu, Chih-Yu Liao, Jenny Chen, Yung-Sen Cheng and Kuo-Tung Hsu
	191	Control System Based on PLC for Winding Machine	Wei Mo, Mei Wang, Jzau-Sheng Lin, Hongyang Zan, and Guangqing Sun
	241	The Research of Photovoltaic MPPT Controller Based on DSPF2812	Gai-Li Yue and Hongwei He
	309	A Kind of Hybrid Method for Fault Recognition	Fu Zhouxing, Jingyi Du, Mei Wang, Qin Xuebin, Ningbo Xu and Hsiung-Cheng Lin
	319	Key Techniques in Smart Substation	Peiqi Fu, Baoji Yun, Zhouxing Fu, Lei Sun, Chunyue Wang, and Ruoya Zhang
	115	Classification Using an Efficient Neuro-Fuzzy Classifier Based on Adaptive Fuzzy Reasoning Method	Cheng-Jian Lin and Chun-Cheng Peng

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127	Using Adaboost Method for Face Detection and Pedestrian-flow Evaluation of Digital Signage	Shye-Chorng Kuo, Cheng-Jian Lin and Chun-Cheng Peng
169	Three-dimensional Breast-tumor Model Reconstruction using Multispectral Contour Detection Method	Sheng-Chih Yang and Cheng-Yan Wang
177	A Study of Digital Image Enlargement and Enhancement	Hsueh-Yi Lin and Rong-Nan Lin
180	Eight-Scale Image Contrast Enhancement Based On Adaptive Inverse Hyperbolic Tangent Algorithm	Cheng-Yi Yu, Hsueh-Yi Lin, and Rong-Nan Lin
187	Combining Event-related Energy with Competitive Clustering Nets to Classify EEG Signals	Chi-Yuan Lin and Wei-Fan Chiang
197	A Particle Swarm Optimization for Special Cutting Plan Scheduling Problem	Shih-Tang Lo, Der-Fang Shiau and Tung-Ju Wu
424	An Image Clustering Technology for Preserving the Consistent Color of Contour	Sheng-Chih Yang, Xi-Ru Liu and Shih-Yen Huang
469	VQ Image Compression Steganography Based on Section-based Informed Embedding	Chi-Yuan Lin, Shu-Cing Wu and Jyun-Jie Wang

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470	Remove Strong Light and Atomized Algorithms for Digital Image	Cheng-Yi Yu, Hsueh-Yi Lin and Shih-Yun Chen
128	Research on Oxygen Saturation Images of Iris Tissue	Chih-Hsiung Shen and Shi-Ching Ke
363	A Novel Approach by Applying Image Authentication Technique on a Digital Document	Jau-Ji Shen and Ken-Tzu Liu
371	Leading Medicine With Barcode	Yu-Bin Su, Wen-Yuan Chen, and Hsueh-Yun Huang
388	An Iris Segmentation Scheme Using Delogne-Kåsa Circle Fitting Based on Orientation Matching Transform	Chen-Chung Liu, Pei-Chung Chung, Chia-Ming Lyu, Jui Liu and Shyr-Shen Yu
420	Sub-pixel Edge Detection of LED Probes Based on Canny Edge Detection and Iterative Curve Fitting	Nai-Quei Chen, Jheng-Jyun Wang, Li-An Yu and Chung-Yen Su
471	Ammonia Detection Scheme in Breeding Pond	Wen-Yuan Chen, Rong-Hung Sun, and Yuan-Shan Chen
135	Research and Application of Bird Species Identification Algorithm Based on Image Features	Li Jian, Zhang Lei, and Yan Baoping
396	Synchronization of Uncertain Perturbed Chaotic Neural Network Using Tracking Differential Observer	Chao Zhang, Jing Wang, Qiang Guo, Li Zhao, and Lele Fan

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June 10 10:30-12:00	Paper No	Paper Title	Authors
	250	Flower Image Retrieval Based on Saliency Map	Xuelong Hu, Huining Wu, Yuhui Zhang, and Lei Sun
	348	Brainwaves Analysis of Relaxation Emotion	Fu-Chien Kao, Yun-Kai Lin, Chih-Chia Chen, and Chih-Hsun Huang
	108	Rotation-invariant Texture Image Retrieval Based on Complementary Features	Xuelong Hu, Gang Wang, Huining Wu, and Huimin Lu
	107	The cyclodipeptides compounds from <i>Pinellia ternate</i> (Thunb.) Breit	Ying Xu, Yubin Ji, Zheng Xiang, Jian Wu, and Ning Chen
	161	Super-resolution reconstruction base on A new image registration	Xie Qi and Chen Wei-Yi
	126	An Improved Algorithm of Photonic Crystal Fibers' Defect Mode Based on the Plane-wave Expansion and Supercell Method	Zhu Yuguang, Fang Yuntuan and Zhuang Yanbin
	96	An Improved Vector-Control System of PMSM Based on Fuzzy Logic Controller	Risha Na and Xudong Wang

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112	Research on the Integration of Deep Web Query Interfaces	Yongjun Liu
132	An Ontology Evolution Method Based on Folksonomy	Shufeng Wang, Yanbin Zhuang, Zhixi Hu, and Xianju Fei
198	An Improved Max-Min Task-Scheduling Algorithm for Elastic Cloud	Xiaofang Li, Yingchi Mao, Xianjian Xiao, and Yanbin Zhuang
199	A Enhanced Protocol for LEACH Based Wireless Sensor Networks	Yanhong Sun and Ming Tang
10	The Importance of the Analysis of Leisure-Related SSCI Journals	Luo She-Juang, Mao Ko-Min, Yen Chang-Hua, and Lee De-Chih
78	Real Time Non-rigid Surface Detection Based on Binary Robust Independent Elementary Features	Chio-Tan Kuo, Ling-Yu Tsai, Geng-Cheng Lin, Yu-Ren Dian and Chuin-Mu Wang
80	A Study on the Application of Fuzzy Information Seeded Region Growing in Brain MRI Tissue segmentation	Chuin-Mu Wang, Pei-Chi Kuo, Geng-Cheng Lin and Da-Peng Yang
137	Heuristics Based Particle Swarm Optimization for Solving Vehicle Routing Problems	Ruey-Maw Chen and You-An Chen
159	An Efficient Particle Swarm Optimizer with Application to Man-Day Project Scheduling Problems	Frode Eika Sandnes and Ruey-Maw Chen

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202	Implementation and Performance Analysis of the Archive System for the Taiwan Photon Source Project	Yung-Sen Cheng, Chih-Yu Liao, Jenny Chen and Kuo-Tung Hsu
225	Implementation of Mobile DICOM Image Retrieval Application with QR-Code Authentication	Yi-Ying Chang, Huai-Bin Zhong and Min-Liang Wang
352	Using Neural Networks with Differential Evolution Learning for Face Recognition	Shih Yen Huang and Cheng-Jian Lin
410	Study for Distributed Video Coding Architectures	Ted Chih-Wei Lei and Fan-Shuo Tseng
182	A USB Dongle Antenna for Multiband Applications	Wen-Shan Chen, Wei-Jyun Chen, Chin-Kai Yang and Li-Yu Yeh
269	Formal Verification of Wireless Sensor Key Exchange Protocol using AVISPA	Mohamed Kasraoui, Adnane Cabani and Houcine Chafouk
372	Attitude Balancing and Tracking Control of Electric Unicycles	Pang-Chia Chen, Hung-Wei Lin, Chih-Huang Chiang and Kuan-Yu Hou
383	Robust stability for discrete-time uncertain genetic regulatory networks with infinite-distributed delays	Chien-Yu Lu, Yung-Chia Hsiao, Chien-Hung Liu, Chang-Hung Hsu, Koan-Yuh Chang and Shan-Jen Cheng
385	High Frequency Characteristics of Magnetostriction on Vibration and Noise for Single-Phase Transformer dependence of Magnetic Circuit Method	Chang-Hung Hsu, Chien-Hung Liu, Yung-Chia Hsiao, Weng-Ming Chu, Chien-Yu Lu and Shan-Jen Cheng

## Room D3

	Paper No	Paper Title	Authors
<b>June 10</b> <b>13:30-15:00</b>	320	Research on Micro-area Sheet Resistance by Mapping Technique Method with Inclined Square Four Point Probe	Xinfu Liu, Zhihui Zhu, Runli Zhang, Nan Jiang and Huan Guo
	333	Harmful gases Wireless Network Monitoring System Design	Jian Fang and Wei Li
	335	Walking robot gait planning and system design	Shunting Su, Shunting Su and Jian Fang
	343	An inverted pendulum fuzzy controller design and simulation	Luo Hongyu and Fang Jian
	344	Inverted pendulum RBF neural network PID controller design	Yu Jing and Fang Jian
	353	The Testing System of Microarea Sheet Resistance Based on Labview with Inclined Square Four Point Probes	Zhihui Zhu
	466	Tracking of mobile robot expert PID controller design and simulation	Zhongbao Luo and Wei Li

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21	Influence of working pressure on structural and optoelectronic properties of Al-doped ZnO thin films	Chien-Hsun Chu, Hung-Wei Wu and Jow-Lay Huang
121	InP Schottky Barrier MOSFET with TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> as Gate Oxides	Ming-Kwei Lee and Chih-Feng Yen
281	Effects of Excimer Laser Annealing on Low-Temperature Solution Based Indium-Zinc-Oxide Thin Film Transistor Fabrication	Chao-Nan Chen and Jung-Jie Huang
418	Annealing Effect of Sol-gel TiO <sub>2</sub> Thin Film on pH-EGFET Sensor	Pin-Chuan Yao, Ming-Chih Lee and Jung-Lung Chiang
425	The Growth and Analyses of CuInSe <sub>2</sub> Absorption Layer for a CIS Thin Film Solar Cell	King-Leung Wong, Hung-En Chen and Wen-Lih Chen
22	Comments on Time-Varying Harmonic and Interharmonic Estimation Methods	Cheng-I Chen and Yeong-Chin Chen
47	Discussions on Covariance Matrix of Kalman Filter for Power System Harmonic Analysis	Cheng-I Chen and Yeong-Chin Chen
50	Development of Educational Platform for Experiments of Electric Machines	Yuan-Chieh Chin



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52	Estimation of Voltage Variation Events with Adaptive Linear Filtering	Cheng-I Chen, Chieh-Yin Cheng and Yeong-Chin Chen
58	Implementation of Power Measurement System with Fourier Series and Zero-Crossing Algorithm	Yeong-Chin Chen and Jian-Kai Lan
33	A Novel Scheme for the Fovea Localization on Retinal Images	Chun-Yuan Yu, Chen-Chung Liu and Shyr-Shen Yu
196	Automatic Localization of the Optic Disc Based on Iterative Brightest Pixels Extraction	Chun-Yuan Yu and Shyr-Shen Yu
350	PE-based Watermarking Scheme for Color Images	Te-Jen Chang, Ping-Sheng Huang and I-Hui Pan
378	Employing RFID for an Equipment Management System via Wireless Sensor Network	Wen-Tsai Sung, Jui-Ho Chen and Hsi-Chun Wang
443	Iterative Morphology-based Segmentation of Breast Tumors in Ultrasound Images	Guan Lin Chen and Chia Yen Lee

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	Paper No	Paper Title	Authors
<b>June 10</b> <b>15:30-17:00</b>	313	The Fusion Method of Improvement Bayes for Soccer Robot Vision System	Yuanbin Hou, Yibin Zhang, Fei Xue, Maoquan Zheng, and Rong Fan
	314	The Data Processing System of Coal Slurry Pipeline Pressure Based On AMFL	Yuanbin Hou, Jiao Dang, Lu Wang, Xuecun Yang, and Xinzhao Wang
	316	Early Fire Detection for High Space Based on Video-image Processing	Wang Yuanbin and Ma Xianmin
	318	Research on DC Line Protection	Zhouxing Fu, Ruoya Zhang, Lingling Huang, Peiqi Fu and Nan Wang
	337	Doubly-fed Wind Turbine Mathematical Model and Simulation	Chunyue Wang, Fu Zhouxing, Wei Huang, Yifan Liu and Shihe Zhang
	404	The Characteristic of Organic Hole-Only Devices Based on Crosslinked Hole-Transport Layer	P.S. Rudati, D.C. Mueller, and K. Meerholz
	415	A Sub-1 V CMOS LDO Regulator with Multiple Protections Capabilities	Yu-Cherng Hung and Ding-Jyun Ceng

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416	Integration of High Efficiency PFM-Based Buck Converter for LEDs driving	Yu-Cherng Hung and Bo-Sheng Lian
147	Positioning and Navigation of Meal Delivery Robot Using Magnetic Sensors and RFID	Yan-An Lu and Guo-Shing Huang
18	Design of a Piezoelectric Speaker Driver Based on Fuzzy Theory and Taguchi Method	Po-Jen Cheng, Chin-Hsing Cheng and Sheng-Chie Lin
148	Modular Arithmetic Analyses for RSA Cryptosystem	Chia-Long Wu and Chen-Hao Hu
251	Power Remote Monitoring and Control Platform Development Using MiWi Wireless Networking Protocol	Chin-Pao Hung, Kai-Chih Chang, You-Cheng Lai, and Fu-Tsai Shieh
400	Design and Preliminary Test of A Palm Bio-Impedance Spectroscopy Measurement System for Biometric Authentication	Wen Zhang, Yuxiang Yang and Qiang Sun
454	Design and Implementation of a Three-dimensional Pedometer Accumulating Walking or Jogging Motions	Jia-Shing Sheu, Guo-Shing Huang, Wei-Cian Jheng and Chih-Hung Hsiao
110	Adaptive Network-Based Fuzzy Inference System for Arteriovenous Shunt Stenosis Screening in Long-Term Hemodialysis Treatment of Patients	Wei-Ling Chen, Yi-Chun Du, Chia-Hung Lin, Chung-Dann Kan, and Ming-Jui Wu

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214	Context-Aware Prompting System for Improving Physical Activity	Chung-Tse Liu, Steen J. Hsu and Chia-Tai Chan
248	Mobile Robot Localization by Tracking Built-in Encoders	Chih-Liang Chen, Song-Huei Huang and Jia-Hong Zhou
249	Motors Synchronization for Mobile Robots Using PID Control	Chih-Liang Chen, Yi-De Guo and Jun-Hao Zhang
254	Machine Protection System Design for the Taiwan Photon Source	Chih-Yu Liao, Chun-Yi Wu, Yung-Sen Cheng, Demi Lee, Kuo-Hwa Hu and Kuo-Tung Hsu
279	The Analysis of Z-shape Microstrip Antenna for Dual-band Operation	Tung-Hung Hsieh, Yi-Ming Cheng, Guan-Chi Wang and Pi-Wei Chen
289	A Compression Algorithm for ECG data using variable-length classified template sets	Xinchao Qu and Yue Zhang
387	Implementation of 3-D Optical CDMA Networks with Double Balanced Detection	Chih-Ta Yen and Chih-Ming Chen
192	The design of motor drive with speed control for an electric bicycle	Tze-Yee Ho, Wei-Chieh Chen, Chih-Hao Chiang, Wei-Chang Hung, and Mu-Song Chen
376	Feature Detection in Breast IR Image: An Adaptive non-maximal suppression model	Hao-Jen Wang and Chia-Yen Lee