2016 International Conference on Applied System Innovation (ICASI 2016)

Okinawa, Japan
26-30 May 2016

IEEE Catalog Number: CFP16E74-POD
ISBN: 978-1-4673-9889-3

Copyright © 2016 by the Institute of Electrical and Electronics Engineers, Inc
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

******This publication is a representation of what appears in the IEEE Digital Libraries. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP16E74-POD
ISBN (Print-On-Demand): 978-1-4673-9889-3
ISBN (Online): 978-1-4673-9888-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

A STUDY ON THE LINEAR PIEZOELECTRIC MOTOR OF MODE SHAPE WITH PI TYPE BASE 1
Jwo Ming Jou

DR. WHAT-INFO II: A UNIVERSAL APPLICATION INTERFACES-SUPPORTED MULTI-AGENT SYSTEM WITH OPEN DATA OF TAIWAN GOVERNMENT 6
Sheng-Yuan Yang ; Chun-Liang Hsu

THE STUDY OF ERGONOMIC EVALUATION AND CRITICAL DESIGN FACTORS FOR ELECTRIC SCOOTER 10
Chih-Hung Hsu ; Bor-Shong Liu ; Sin-Long Jhuang ; Yi-Chen Li

ERGONOMIC EVALUATION OF NEW AMPOULE OPEN DESIGN 14
Ching-Wen Lien ; Bor-Shong Liu ; Yun-Ju Chen ; Chuan-Hui Yu

MIGRATING WEB APPLICATIONS TO CLOUDS WITH MICROSERVICE ARCHITECTURES 18
Jyhjong Lin ; Lendy Chaoyu Lin ; Shiche Huang

A LOW POWER SUPPLY CMOS BANDGAP REFERENCE VOLTAGE GENERATOR USED CURRENT DIFFERENTIAL AMPLIFIER AND DTMOST DIODE 22
Hung-Wei Chen ; Hsuan-Lun Kuo

THE KANSEI EVALUATION ON SPORTS UTILITY VEHICLE OF THE VISUAL ANGLE AND FORM FEATURE 24
Ting-Chun Tung ; Cheng-Hsun Hsieh ; Yu-Chen Huang

BLEND RECURRENT GEGENBAUER ORTHOGONAL POLYNOMIALS NEURAL NETWORK CONTROL OF A SYNRM SERVO-DRIVE CVT SYSTEM USING AMENDED ARTIFICIAL BEE COLONY OPTIMIZATION 28
Chih-Hong Lin ; Hong-Yen Hsu

SPEECH ENHANCEMENT USING SPECTRAL SUBTRACTION ALGORITHM WITH OVER-SUBTRACTION AND RESERVATION FACTORS ADAPTED BY HARMONIC PROPERTIES 32
Ching-Ta Lu ; Kun-Fu Tseng ; Yung-Yue Chen ; Ling-Ling Wang ; Chung-Lin Lei

EXPLORATION ON CONSTRUCTION OF SHOP WINDOW EAVFS KANSEI DESIGN MODE 36
Junzhu Zhang

ANIMATION TECHNOLOGY CONTENT OF THE GENDER FACTOR DIFFERENCES 40
Yu-Fu Chen ; Junzhu Zhang ; Chu-Jun Yang

HOW CAN WE SYSTEMATICALLY DEVELOP AN APP SOFTWARE? 43
Daniel Lin ; Hou-Yi Lin ; Te-King Chien ; Hon-Yu Ma

A BLOCK-ORIENTED C PROGRAMMING ENVIRONMENT 47
Tyng-Yeu Liang ; Hao-Ting Peng ; Hung-Fu Li

3D SCAN FOR SPECIAL URBAN EVENING OCCASION 51
Naai-Jung Shih ; Hwei-Chi Kuo ; Chin-Fong Chang

DEVELOPMENT AND EVALUATION OF A MOBILE AR ASSISTED LEARNING SYSTEM FOR ENGLISH LEARNING 55
Min-Chai Hsieh

A VISUAL STUDY OF CHARACTERS IN VIDEO GAMES — THE ROLE OF HALF-HUMAN IN GREEK MYTHOLOGY AS AN EXAMPLE 59
Wei-Hsin Teng ; Mei-Ting Lin ; Shu-Wei Guo ; Chung-Kan Chao

STUDY OF PANORAMIC PERSPECTIVE SPACE ON GLOBES 63
Yu-Wen Lu ; Ping-Hui Ho

A STUDY ON THE INFLUENCE OF TAIWAN'S TEMPLES WITH CHINESE AUSPICIOUS PATTERNS ON ROLE DESIGN 67
Ho Ping Hui ; Lu Yu Wen

RECOGNITION AND DECOMPOSITION OF BOSSES ON CAD MODELS FOR HEXAHEDRAL MESHES GENERATION IN CAE ANALYSIS 71
Jiing-Yih Lai ; Ming-Hsuan Wang ; Chia-Hsiang Hsu ; Yao-Chen Tsai

STUDY ON THE OPERATING RANGE FOR SYNGAS PRODUCTION BY OXIDATION DRY REFORMING OF BIOGAS 75
Cheng-Hsun Liao ; Rong-Fang Horng

MODELSIM/SIMULINK CO-SIMULATION OF A SENSORLESS CONTROL FOR PMSM DRIVES BASED ON I-F STARTUP AND EKF 79
Ying-Shieh Kung ; Risfendra

THE COMPARATIVE RESEARCH OF HEALING VIDEO GAMES BY APPLYING KINESIOLOGICAL TESTING AND ELECTROENCEPHALOGRAPHY 83
Dawei Lin
MODELING OF THROUGH-SILICON-VIA (TSV) RF CHARACTERIZATION USING A SIMPLIFIED RLC ELECTRICAL MODEL 87
Kun-Fu Tseng ; Ching-Ta Lu
THE INNOVATIVE DESIGN OF SCHOOLBAG FOR ELEMENTARY SCHOOL STUDENTS BY INTEGRATING FUNCTIONAL DEMAND-ORIENTED AND TRIZ 91
Chin-Jung Huang ; Fa-Ta Tsai
BUCKLING AND MECHANICAL PROPERTIES OF CR-NI STAINLESS STEELS 95
Kai-Peng Lin ; Te-Hua Fang ; Ivo Stachiv
THE STUDY OF ULTRAVIOLET PHOTOSENSORS WITH IZO NANOSHEETS 99
Sheng-Joue Young ; Jian-Cheng Shen ; Yi-Hsing Liu
TIME CONTEXT TRAVELING WITH HOLOGRAM PROJECTION A CASE STUDY OF TAINAN HISTORICAL MONUMENT 101
Huang Ya-Ling ; Yang I-Ying ; Hsu Fan
DRUG-ELUTING STENT WITH RHOMBIC-SHAPE RESERVOIRS FOR DRUG DELIVERY 105
Yen-Ting Wang ; Yi-Ping Wang ; Tzu-Yuan Lin ; Chien-Erh Lin ; Hao-Ming Hsiao
FINITE ELEMENT ANALYSIS OF THE THICKNESS FOR STAGGERED DYNAMIC COMPRESSION BONE PLATE TREATMENT OF FEMORAL SHAFT FRACTURE 109
Te-Ching Hsiao ; Shyh-Chour Huang
CONCEPTUAL DESIGN PROCEDURE OF CULTURAL INSTALLATION ART 113
Tseng-Pin Lee ; Elim Liu
MODULAR DESIGN OF A CYLINDRICAL CAM ASSEMBLY FOR SOLAR-PANEL CLEAN SYSTEM 117
Songhao Wang ; Syun-Cheng Lin ; Yu-Ching Yang
SURFACE VOLTAGES OF TRIBO-ELECTRIFICATION DURING DRY FRICTION PROCESS FOR THE TYPICAL FOUR POLYMER PAIRS 120
Yuh-Ping Chang ; Huann-Ming Chou ; Li-Ming Chu
IMPROVING SYSTEM PERFORMANCE BY EXTENDING INHERITANCE ANALYSIS AND DESIGN 124
Jyhjong Lin ; Lendy Chaoyu Lin ; Shiche Huang
AN INTERACTIVE IELTS VOCABULARY MEMORIZING METHOD BASED ON EBBINGHAUS CURVE 127
Tsung-Chih Hsiao ; Alyssa Cheung ; Gloria Jiang ; Xiaoguang Yu
THE DEVELOPMENT AND RESEARCH OF DIGITAL MARKETING IN THE CONTEMPORARY SOCIETY 131
Tsung-Chih Hsiao ; Carol Han ; Mixue Qi ; Xiaoguang Yu
MOTION DIFFERENCE HISTOGRAM FOR RECOGNIZING HUMAN ACTION IN VIDEO 135
Hong-Bo Zhang ; Yu Ma ; Feng Guo ; Miaohui Zhang ; Ying Lin
DISCUSSION ON THE SITUATION AND TREND OF APPLIED BASIC DESIGN AND ART — TAKE WINNERS OF "ASIA-PACIFIC CREATIVE AWARD IN MEMORIAL OF PROFESSOR ASAKURA NAOMI CONTEST" AS EXAMPLES 139
Hsun-Yi Tseng
THE EFFECTS OF ZINC OXIDE ON THE SINTERABILITY OF HYDROXYAPATITE 143
Teh Yee Ching ; Ramesh Singh ; Tan Chou Yong ; Yap Boon Kar
MUTUAL INFLUENCE OF DESIGN CONTEST TOPICS AND THEIR RESULTS-TAKE "ASIA-PACIFIC CREATIVE AWARD IN MEMORIAL OF PROFESSOR ASAKURA NAOMI CONTEST" AS EXAMPLE 147
Hsun-Yi Tseng
A INTELLIGENT GAMIFYING LEARNING RECOMMENDER SYSTEM INTEGRATED WITH LEARNING STYLES AND KELLY REPERTORY GRID TECHNOLOGY 151
Chung-Ho Su ; Kuo-Kuang Fan ; Po-Yuan Su
AN EMPIRICAL STUDY OF PRACTICABILITY, HEDONIC AND INTERACTIVE MEDIA FOR INTENTION TOWARD CULTURAL CREATIVE APP DESIGN 155
Chung-Ho Su ; Kuo-Kuang Fan ; Po-Yuan Su
DOA ESTIMATION BASED ON AN IMPROVED HYBRID PSOGSA APPROACH FOR CDMA SYSTEM 159
Jhih-Chung Chang ; Po-Ting Chen
PERIODIC EFFECTS ON THE SENSITIVITY OF LAMELLAR GRATING WAVEGUIDE SENSOR WITH TE-POLARIZATION 163
Hsiang-Jui Liu ; Jiann-Hwa Lue ; Ting-Jou Ding ; Yu-Sheng Su ; Chiu-Nan Su ; Meng Liu

MODIFIED PARTICLE SWARM OPTIMIZATION FOR SOLVING TRAVELING SALESMAN PROBLEM BASED ON A HADOOP MAPREDUCE FRAMEWORK 165
Jhih-Chung Chang

TEACHERS' AND STUDENTS' PERCEPTIONS TOWARD AUGMENTED REALITY MATERIALS 169
Min-Chai Hsieh

USING MODULAR NEURAL NETWORK TO SSVEP-BASED BCI 171
Yeou-Jiunn Chen ; Shih-Chung Chen ; Chung-Min Wu

DESIGN A BIO-SIGNAL AUTOMATIC MEASUREMENT ANALYSIS AND WARNING SYSTEM FOR THE LONG-TERM HEALTH CARE OF SEVERE DISABLED 174
Chung-Min Wu ; Shih-Chung Chen ; Yeou-Jiunn Chen

HEALTH INFORMATION DISPLAY FOR ELDERLY PEOPLE: INTERFACE ATTRIBUTES, USABILITY, AND EMOTIONAL REACTION 178
Yu-Min Fang ; Yung-Ping Chou ; Bo-Cheng Chu

ESD-RELIABILITY CHARACTERIZATIONS OF A 45-V P-CHANNEL LDMOS-SCR WITH THE DISCRETE-CATHODE END 182
Shen-Li Chen ; Yu-Ting Huang ; Yi-Cih Wu ; Jia-Ming Lin ; Chih-Hung Yang ; Chih-Ying Yen ; Kuei-Jyun Chen

IS THERE DIFFERENTIA BETWEEN TRADITIONAL AND CLOUD ERP ON IMPLEMENTATION ACTIVITY? 184
Te-King Chien ; Cing-Siang Syu ; Wen-Ling Lai ; Hung-Lun Chang

THE LATENT CLASS ANALYSIS IN TELEMEDICINE USER IN TAIWAN 188
Yi-Horng Lai

THE INFLUENCES OF FIREFIGHTERS' PERSONALITY TRAITS ON JOB BURNOUT: USING POST-TRAUMATIC STRESS DISORDER AS A MEDIATOR 191
Chung-Fah Huang ; Ho-Chi Lien ; Chi-Ming Wang

HOW GRAYSCALE INFLUENCES CONSUMERS' PERCEPTION OF PRODUCT PERSONALITY 195
Wei-Ken Hung ; Yu-Shan Athena Chen ; Lin-Lin Chen

AN EXPLORATORY FACTOR ANALYSIS FOR CAPABILITIES TRANSFORMATION FROM DESIGN FIRM TO OWN BRANDING 199
Fang-Chuan Lin ; Meng-Dar Shieh

BRINGING EFFECTIVENESS, EFFICIENCY AND TRANSPARENCY IN PROJECT MANAGEMENT THROUGH A ROBUST E-PROCUREMENT SYSTEM IN AFGHANISTAN 203
Abdul Sami Dai ; Samiullah Paracha

THE APPLICATION OF FIBONACCI SEQUENCE AND TAGUCHI METHOD FOR INVESTIGATING THE DESIGN PARAMETERS ON SPIRAL MICRO-CHANNEL 207
Cheng-Hsing Hsu ; Hung-Son Dang ; Thi-Anh-Tuyet Nguyen

AN APPROACH TO TRAFFIC FLOW DETECTION IMPROVEMENTS OF NON-CONTACT MICROWAVE RADAR DETECTORS 211
Tan-Jan Ho ; Meng-Ju Chung

PRODUCTION AND MARKETING DESIGN FOR THE SHUANGLONG TRIBE YIXIAN FARM 215
Li-Hsun Peng ; Yu-Hsuan Chang

HIERARCHICAL NEURAL NETWORK MODEL WITH INTRINSIC TIMING 219
Dushan Balisson ; Wim J. C. Melis

ELECTROMAGNETIC EFFECTS OF NON-IONIZING RADIATION ON A CELL NUCLEUS AND CELL ASSEMBLY 223
Bor-Wen Yang ; Yu-Syuan Lin ; De-Huang Jhuang

AN EXPERIMENTAL CURRICULUM DESIGN OF INFO-MOTION GRAPHIC 227
Chen Wei-Chin ; Teng Wei-Hsin ; Hsu Wen-Chun

BOUNDARY PROCESSING ON THE WATERMARK WITH HYBRID HALFTONE DOTS 231
Yen-Hsiang Kao ; Hsi-Chun Wang ; Tai-Kuang Yu

A GREY EVALUATION APPROACH TO MEASURE LOGISTICS COMPANIES' PERFORMANCE 235
Min-Chun Yu ; Chia-Nan Wang ; Nguyen-Nhu-Y Ho

THROUGH-WALL IMAGING FOR A TWO-DIMENSIONAL PERFECTLY CONDUCTING CYLINDER BASED ON ASYNCHRONOUS PARTICLE SWARM OPTIMIZATION 239
Wei Chien ; Tsai-Hua Kang ; Sung-Shiou Shen ; Jan-Ou Wu

THE STUDY FOR SELECTING THE CLOUD SERVICE CONSIGNMENT PERFORMANCE IN GROUP DECISION OF SHARED INVENTORY RESOURCE IN SMALL-SIZED ELECTRONIC INDUSTRY 243
Tsai-Hua Kang ; Wei Chien ; Sung-Shiou Shen

THE SCHEDULING AND PLACEMENT STRATEGIES FOR FPGA DYNAMIC RECONFIGURABLE SYSTEM 246
Jan-Ou Wu ; San-Fu Wang ; Yang-Hsin Fan ; Wei Chien
WHITE-LED 3-D INDOOR POSITIONING USING SUPER-RESOLUTION TECHNIQUE 248
Kelvin Kuang-Chi Lee ; Fu-Yuen Shih ; Shih-Hao Chang
THE INFLUENCE OF CONFORMITY ON THE USING OF ELECTRONIC MEDICAL RECORDS 252
Yi-Horng Lai
LOW INERTIA CENTRIFUGAL COMPRESSOR WHEELS: AERODYNAMIC AND MECHANICAL DESIGN 256
Tore Fischer ; Joerg R. Seume
FPGA-BASED SENSORLESS CONTROLLER FOR PMSM DRIVES USING SLIDING MODE OBSERVER AND PHASE LOCKED LOOP 260
Ying-Shieh Kung ; Risfendra ; Yi-De Lin ; Liang-Chiao Huang
THE ISSUE OF THE INDOOR AIR QUALITY ACT IN TAIWAN — TAKING THE DIAGNOSIS CASE OF HOME FOR THE DISABLED, BUREAU OF SOCIAL AFFAIRS IN KAOHSIUNG FOR EXAMPLE 264
Lin-Lin Huang ; Han-Cheng Juan ; Shin-Ku Lee
A SURVEY OF PERFORMANCE IMPROVEMENT BY GROUP-BASED AUTHENTICATION IN IOT 268
Wei-Tsung Su ; Wei-Ming Wong ; Wei-Cheng Chen
OPPORTUNITY IDENTIFICATION AND BUSINESS PERFORMANCE OF DESIGN STARTUPS IN THE FIRST YEAR OF ENTREPRENEURSHIP 272
Wei-Ken Hung ; Yu-Chieh Yeh ; Lin-Lin Chen
A DIGITALLY SELF-CALIBRATION METHOD WITH RECURSIVE DFT ALGORITHM FOR 12-BIT SAR ADC REALIZATION 276
Yi-Hsiang Juan ; Hong-Yi Huang ; Shuenn-Yuh Lee ; Shin-Chi Lai ; Wen-Ho Juang ; Ching-Hsing Luo
A STUDY ON PERFORMANCE OF THREE LEVELS QUALITY MANAGEMENT SYSTEM AND THE SATISFACTION OF IMPLEMENTING CONSTRUCTION QUALITY OF PUBLIC CONSTRUCTION IN TAIWAN 280
Hsin-Hung Lai ; Chien-Liang Lin ; Wei Lo
REDUCING DATA STORAGE REQUIREMENTS FOR MACHINE LEARNING ALGORITHMS USING PRINCIPLE COMPONENT ANALYSIS 284
Saritha Kinkiri ; Wim J. C. Melis
EXPLORING THE THERMAL EFFECT OF FAR-INFRARED THERAPY ON THE KINETICS OF BLOOD CELLS BY OPTICAL TWEEZERS 288
Bor-Wen Yang ; Po-Cheng Lm ; Chi-Tse Chao ; Yu-Sheng Chen
RECONFIGURATION AND PLANNING OF THE EXISTING SPACE IN THE YUNLIN HAND PUPPET THEATRE MUSEUM 292
Yu-Fang Shang ; Ya-Chiao Chang
DEVELOPING A MOBILE APP FOR GAME-BASED LEARNING IN MIDDLE SCHOOL MATHEMATICS COURSE 296
Rong-Chi Chang ; Ching-Yu Yang
WEB-BASED ONLINE COOPERATION TRAINING MATERIALS FOR VOCATIONAL HIGH SCHOOL'S PROJECT-BASED LEARNING COURSES 298
Liang-Bi Chen ; Tzu-Wei Wang ; Chi-Tsai Yeh ; Wan-Jung Chang ; Kathenne Shu-Min Li
THE FEASIBILITY STRATEGY TO ENHANCE RATE OF EMERGENCY RESCUE DISPATCH WITH OPTIMIZED WAY OF DRESSING 300
Chung-Wei Yeh ; Uzu-Kuei Hsu
WIRELESS GREEN ENERGY POWER TRANSMISSION SYSTEM BASED ON ASSEMBLY METHOD AND PIVOTING ANTENNA MODULE 304
Ming-Shen Jian ; Yi-Chi Fang ; Rui-Wei Tong ; Yu-Huei Lin
USING INFORMATION TECHNOLOGY TO EXPLORE BEHAVIORAL INTENTION OF UNDERGRADUATE STUDENTS LEARNING MARINE KNOWLEDGE 308
Simeng Dong ; Yu-Jen Pan ; Jui-Chung Kao ; Te-Cheng Yu
AN IMPROVED SKIN COLOR MODEL 312
Shyh-Kuang Ueng ; Che-Yu Chang
NEAR-INFRARED OPTICS BIO-SENSOR USED IN BODY-FAT MEASUREMENT 316
Jui-Lin Lai ; Rong-Sheng Lin ; Shin-Chia Tsai ; Shin-Yi Huang
THE ANALYSIS OF DEGRADATION CHARACTERISTICS OF BLDCM BASED ON WAVELET TRANSFORM 320
Wenhui Fan ; Xiaohong Wang ; Lizhi Wang ; Zhan Yu

USING VIDEO MAGNIFICATION APPROACH DIRECTLY TO EXTRACT HEART-BEAT 324
Jui-Lin Lai ; Shin-Chia Tsai ; Rong-Sheng Lin ; Shin-Yi Huang
A HYBRID SWARM ALGORITHM FOR NONLINEAR FUNCTION APPROXIMATION 328
Te-Jen Su ; Yi-Feng Chen ; Hong-Quan Vu ; Thanh-Hong Nguyen ; Fang-Tsung Liu
AESTHETICS OF CHINESE GARDEN ARCHITECTURE—USING THE LIN BEN YUAN FAMILY MANSION AND GARDEN IN BANQIAO, TAIWAN AS AN EXAMPLE 332
Shu-Ping Chiu ; Li-Wen Chuang
A PERSONAL COMPUTER COOLING SYSTEM BASED ON ADAPTIVE NEURO-FUZZY INFERENCE SYSTEMS 336
Jui-Chuan Cheng ; Te-Jen Su ; Chong-Guang Chen ; Chien-Yuan Pan
EXPLORING COLLABORATIVE INFORMATION EXCHANGE IN SOCIAL MEDIA 340
Li-Wen Chuang ; Shu-Ping Chiu
STUDY OF LOCAL CULTURE AND AQUATIC PRODUCT PACKAGING INTEGRATION IN SHUANGLONG TRIBE 344
Li-Hsun Peng ; Wan-Ju Hung
APPLYING TRIZ TO DEVELOP RADICAL INNOVATIONS FOR KNIFE SHEATHS 348
Chyun-Chau Lin ; Chun-Fu Chen
PEDESTRIAN, BIKE, MOTORCYCLE, AND VEHICLE CLASSIFICATION VIA DEEP LEARNING: DEEP BELIEF NETWORK AND SMALL TRAINING SET 352
Yen-Yi Wu ; Chun-Ming Tsai
DESIGN FACTOR FOR PUBLIC SMOKING FACILITY: A COMPARATIVE CASE STUDY OF TAIWAN AND JAPAN 356
Zheng Meng-Cong ; Chua Lay-Peng
APPLICATION OF BACK-PROPAGATION NEURAL NETWORK-BASED APPROACH TO ICON IMAGE DESIGN 360
Ting-Chun Tung ; Hung-Yuan Chen
A METHOD FOR WEB APPLICATION DATA MIGRATION BASED ON RESTFUL API: A CASE STUDY OF EZSCRUM 364
Chin-Yun Hsieh ; Hong-An Hsieh ; Yu Chin Cheng
SMART IOT SYSTEM DESIGN FOR AFTER-SALES MAINTENANCES OF 3-PHASE GENERATORS 368
Hsing-Feng Chen ; Yi-Kai Liao ; Bo-Lin Liou ; Zheng-Han He
EXPLORING THE MICROSCOPIC MECHANISM HOW ELECTROMAGNETIC RADIATION AFFECTS BLOOD COAGULATION PROCESS 371
Bor-Wen Yang ; Shih-Yuan Wang ; Ching-Huang Lin
COMMUNITY CRAFT DESIGN AS MAIN SOCIAL ENTERPRISES CONSTRUCTION MODEL — LIOUGUEI DISTRICT BOLIA REGION AS AN EXAMPLE 375
Hou Po-Lun ; Ho Ming-Chyuan
HIGHLY SENSITIVE MINIATURIZED REFRACTIVE INDEX SENSOR BASED ON POLARIZATION ROTATION IN OPTICAL WAVEGUIDE 379
Chih-Wei Hsu ; Jhen-Yu Chen ; Yung-Chen Cheng
SENSORLESS INTERIOR-PMSM CONTROL WITH ROTATIONAL INERTIA ADJUSTMENT 382
Yongle Mao ; Jiaqiang Yang ; Dejun Yin ; Yangsheng Chen
ESTIMATING THE STIFFNESS PARAMETERS OF A BUILDING BY USING TIME SERIES MODEL AND GRAM-SCHMIDT PROCESS IN MORLET WAVELET DOMAIN 386
Wei-Chih Su ; Chiung-Shiann Huang ; Ho-Cheng Lien
PRELIMINARY OF OPTICAL EXPRESSION ON DYANMIC FORM — TAKE ROTATIONAL MOTION AS THE EXEMPLE 390
Guang-Dah Chen ; Chih-Chao Chang
DETECTION DDOS ATTACKS BASED ON NEURAL-NETWORK USING APACHE SPARK 393
Chang-Jung Hsieh ; Ting-Yuan Chan
NONLINEAR BACKSTEPPING CONTROL WITH ADAPTIVE MODIFIED RECURRENT LAGUERRE ORTHOGONAL POLYNOMIAL NN UNCERTAINTY OBSERVER FOR A SYNRM SERVO-DRIVE SYSTEM 397
Chih-Hong Lin ; Pin-Rong Chen
DATA MINING BASED ON THE EMERGENCY MEDICAL DATABASE THE ASSOCIATION BETWEEN THE REASON OF CALLING AMBULANCE SERVICE AND THE MEDICAL HISTORY OF PATIENTS 401
Jhe-Nan Lin ; Wei-Zen Sun ; Huei-Ming Ma ; Meng-Han Yang
RELAXATION BASED MULTIPLE FRAME MATCHING OF AN URBAN BUILDING WITH STREET VIEW IMAGES 405
Bumseok Cho ; Yong Cheol Kim

ADDING VALUE BY SEMI-AUTOMATIC CRAFT WITH THAI SENSE OF QUALITY AND AESTHETICS: FOUNDATION OF PANDORA CHARMS 410
Ying-Hsun Chen ; Ming-Chyuan Ho ; Hsien-Chun Wu
HUMANIZING BUILDING WITH DIGITAL TECHNOLOGY: FRANK GEHRY'S ARCHITECTURAL EVOLUTION 414
Hsien-Chun Wu ; Ming-Chyuan Ho ; Ming-Mao Lai ; Ying-Hsun Chen
FEATURE POINT BASED TEXT DETECTION IN SIGNBOARD IMAGES 418
Chien-Cheng Lee ; Shang-Fei Shen
EXPLORING THE OPTIMAL STRUCTURE OF A CNC GRINDING MACHINE 422
Hui-Cun Shen ; Kun-Chieh Wang
THE APPLICATION OF KANSEI ENGINEERING AND SDM BASED CREATIVITY TO PRODUCT FORM DESIGN 426
Hui-Cun Shen ; Kun-Chieh Wang
STUDY ON THE UNIVERSALITY OF THE SERVICE DESIGN OF THE "FRIENDLY RESTAURANT APP" 430
Peng Li-Hsun ; Huang Zih-Teng
AN INTELLIGENT COMPUTATIONAL FINANCE MODEL FOR MICROSTRUCTURE-BASED TRADING SYSTEM 433
Chien-Feng Huang ; Hsu-Chih Li ; Bao-Rong Chang
THE PRACTICE OF CORPORATE VISUAL IDENTITY — A CASE STUDY OF YUNLIN GUKENG COFFEE ENTERPRISE CO., LTD 437
Li-Hsun Peng ; Chia-Chun Hung
A RESEARCH OF SEMIOTICS INTERRUPTION IN VISUAL COMMUNICATION BY GESTALT PRINCIPLES 441
Chu-Yu Christine Cheng ; Yang-Kun Ou
AUTOMATED CELL NUCLEI SEGMENTATION FROM MICROSCOPIC IMAGES OF CERVICAL SMEAR 444
Fang-Hsuan Cheng ; Nai-Ren Hsu
STUDY OF SELECTIVE LASER MELTING PROCESS FOR CUBIC MODELS WITH VARIOUS POROSITIES 448
C. T. Pan ; C. H. Lin ; Y. S. Huang ; S. Y. Chen ; T. L. Yang ; C. H. Ou ; L. Y. Chen ; J. C. Huang ; D. Y. Lin ; J. S. C. Jang ; H. K. Lin
NICKEL ELECTROFORMING WITH 355 NM UV LASER PROCESS APPLIED TO 4G SOLIDLY MOUNTED RESONATOR PACKAGING 452
C. T. Pan ; Y. T. Cheng ; Y. C. Chen ; W. C. Shih ; Y. C. Lin ; Z. H. Liu ; H. Z. Han
STRUCTURAL DESIGN OF HIGH EFFICIENT SYNCHRONOUS PERMANENT MAGNET BIKE DYNAMOTOR 456
C. T. Pan ; G. X. Lin ; S. Y. Wang ; C. K. Yen ; C. C. Chang ; A. Y. Yang ; Y. C. Lin ; Z. H. Liu ; Z. H. Hong
AN AUGMENTED REALITY MOBILE NAVIGATION SYSTEM SUPPORTING IBEACON ASSISTED LOCATION-AWARE SERVICE 460
Ching-Sheng Wang ; Wei-Tsung Su ; Yu-Cheng Guo
ADAPTIVE PROBLEM-SOLVING ORIENTED PROGRAMMING LEARNING SYSTEM 464
I-Ling Chung ; Chang-Min Chou ; Cheng-Yuan Chang ; Deng-Kai Li ; Chih-Peng Hsu
APPLYING NEURAL NETWORK ON IMAGE UP-SAMPLING TO PROMOTE THE EFFICIENCY OF TEXTURE MATCHING 467
I-Ling Chung ; Chiung-Wei Huang ; Chang-Min Chou
A STUDY ON TALENTS CULTIVATION AND COMMUNITY DEVELOPMENTIN PARTNERSHIP OF "GONG SHI" 469
Li-Hsun Peng ; Yi-Ting Chen
A TORQUE DISTRIBUTION APPROACH TO ELECTRONIC STABILITY CONTROL FOR IN-WHEEL MOTOR ELECTRIC VEHICLES 473
Yin Dejun ; Shan Danfeng ; Bo-Chiuan Chen
APPLY THE DEA TO ANALYSIS THE SUSTAINABILITY OF SHRINKING AREAS — CASE STUDIES OF SOUTHERN TAIWAN 477
Chen Hsiang-Leng ; Tsou Ko-Wan ; Kuo Hsing-Fu ; Hung Su-Yun
EVALUATION OF DEPTH PERCEPTION IN ELDER WITH PARKINSON'S DISEASE 481
Yang-Kun Ou ; Chin-Hsien Lin ; Chen-Wen Fang ; Yung-Ching Liu
EVALUATION OF CLOUD TESTING STRATEGIES BASED ON TASK DECOMPOSITION AND ALLOCATION FOR IMPROVING TEST EFFICIENCY 485
Chien-Hung Liu ; Shu-Ling Chen

RAPID DUAL-WAVELENGTH IMAGING ELLIPSOMETRIC SYSTEM WITH STROBOSCOPIC ILLUMINATION TECHNIQUE 489
Zhi-Wei Kuo ; Zeng-Yi Peng ; Jhe-Yi Jhou ; Chien-Yuan Han
RESILIENT DISTRIBUTED COMPUTING PLATFORMS FOR BIG DATA ANALYSIS USING SPARK AND HADOOP 493
Bao Rong Chang ; Hsiu-Fen Tsai ; Yo-Ai Wang ; Chien-Feng Huang
THE RESEARCH OF THE LAND-USE CHANGES PATTERN OF SHRINKING CITIES 497
Tsou Ko-Wan ; Hung Su-Yun ; Kuo Hsing-Fu ; Chen Hsiang-Leng ; Kuo Hsing-Fu
TRANSIENT STUDIES OF A 3D AERO-SHAPED TILTING-DISC VALVE IN PULSATILE FLOW 501
Uzu-Kuei Hsu ; Pong-Jeu Lu ; Chung-Wei Yeh
A REMOTE ANEMOMETER BASED ON HYBRID POWER SYSTEMS 505
Chun-Liang Yang ; Tzu-Young Chou ; Yi-Lin Hsieh ; San-Liang Lee
THE USER PREFERENCES FOR NEW ENERGY MOTORCYCLES IN TAIWAN 507
Tzu-Chang Lee ; Chien-Chih Huang ; Ming-Pin Lai
IMPLEMENT OF LOW COST MEMS ACCELEROMETERS FOR VIBRATION MONITORING OF MILLING PROCESS 511
Chih-Yung Huang ; Rong-Mao Lee ; Shang-Kuo Yang
FORMING ANALYSIS OF SHEET METAL TAPPING SCREW USING NUMERICAL METHOD 515
Yu-Tuan Chou ; Shao-Yi Hsia
STUDY OF RUINS OF ST. PAUL SHOPPING DISTRICT IMAGE PLANNING 519
Po-Hsun Wang ; Ya-Long Xing ; Jia-Yin He
THE E-COMMERCE REVOLUTION: ENSURING TRUST AND CONSUMER RIGHTS IN CHINA 523
Ming Cheung ; Cheng-Fu Yang
CONSTRUCTION AND APPLICATION OF FLIPPED INSTRUCTION MODEL 528
Ya-Chin Kang ; Chen-Yang Shih ; Li-Hsuan Chen
DISCUSS ON TOURIST SATISFACTION OF TAINAN CHIMEI MUSEUM BY KANO MODEL AND IPA MODEL IN TAIWAN 531
Wu Ching Hsuan ; Lin Yi Chun ; Hsieh Shih Min ; Li Shuenn Lai ; Tsai You Lin
DISCUSS ON TOURIST SATISFACTION OF TAINAN CHIKAN TOWERS BY KANO MODEL AND IPA MODEL IN TAIWAN FOR ICASI 2016 535
Wu Ching-Hsuan ; Li Ya-Xuan ; Qiu Li-Fun ; Chen De-Xuan ; Wu Yan-Ting
APPLICATION OF KANO MODEL TO DISCUSS TOURIST SATISFACTION ON HINOKI VILLAGE IN TAIWAN FOR ICASI 2016 539
Wu Ching Hsuan ; Sun Wei Zhe ; Lin Chang Hong ; Lin Liang Ru ; Luo Shun Ping
THE DESIGN OF CALLIGRAPHY AND PAINTING APPRECIATION BOOKS IN THE DIGITAL AGE 543
Yan-Jun Wang ; Yao Chen
APPLICATION OF KANO MODEL AND IPA MODEL TO DISCUSS TOURIST SATISFACTION ON NATIONAL SCIENCE AND TECHNOLOGY MUSEUM IN TAIWAN 547
Wu Ching Hsuan ; Ruan Ya Shin ; Huang Ting Yung ; Su Hui Chung ; Chen Chen Ying
PICTOGRAM AND ERP STUDY — A POINT OF VIEW FROM FRIENDLY DESIGN 552
Regina W. Y. Wang ; I-Ning Liu
EVOLUTION OF THE INTELLECTUAL STRUCTURE OF LOGISTICS INFORMATION SYSTEM STUDIES: THEMES, CONCEPTS AND RELATIONSHIPS 556
Fu-Jin Hu ; Tsai-Yuan Lin ; Sean Wu ; Ming Fun Yip
GREEN CERTIFICATION AND ENVIRONMENTAL CORPORATE SOCIAL RESPONSIBILITY STUDIES: PRODUCT MARKET COMPETITION OF ANALYSIS 560
Fu-Jin Hu ; Tsai-Yuan Lin ; Sean Wu ; Ming Fun Yip
DESIGN A NON-INVASIVE NEAR-INFRARED LED BLOOD GLUCOSE SENSOR 564
Jui-Lin Lai ; Shin-Yi Huang ; Rong-Sheng Lin ; Shin-Chia Tsai
MODERN HIJAB STYLE IN INDONESIA AS AN EXPRESSION OF CULTURAL IDENTITY AND COMMUNICATION 568
Indarti ; Li Hsun Peng
AN IMITATION OF 3D PROJECTION MAPPING USING AUGMENTED REALITY AND SHADER EFFECTS 572
Hong-Yi Pai
DISCUSS ON TOURIST SATISFACTION OF TAINAN SI YU HOUSE BY KANO MODEL AND IPA MODEL IN TAIWAN 576
Wu Ching Hsuan ; Ke Wei Zhe ; Zhang Zhe Yu ; Liu Zheng You ; Ke Young Shun

SYSTEM DESIGN AND CONTROL DEVELOPMENT FOR AN AIR/ELECTRIC HYBRID SCOOTER 580
Chien-Hsun Wu ; Jheng-Hong Tian ; Yi-Hsuan Hung ; Syuan-Yi Chen
APPLYING KANO MODEL TO EVALUATE THE QUALITY FOR MOBILE EXPERIENTIAL LEARNING MODEL 584
Ya-Chin Kang ; Jia-Yi Chen
EFFICIENTLY DEVELOPING AN OPTIMAL STRUCTURE OF A CNC DOUBLE-COLUMN MACHINING CENTER USING CAE TECHNIQUE 587
Kun-Chieh Wang ; Hui-Cun Shen
A SECURE AND WITH A LOW COST UPDATED INFORMATION SYSTEM IN VANET 591
Chin-Ling Chen ; Tsai-Tung Yang ; Chun-Long Fan ; Kun-Hao Wang
EXTRINSIC INFORMATION IN ITERATED DECODING OF FIXED WEIGHT CODEWORDS 595
Wonsun Bong ; Yong Cheol Kim
DEVELOPMENT OF AN AUTO-FOCUS 3D MEASUREMENT SYSTEM USING PIEZOELECTRIC ACTUATOR 599
Chih-Liang Chu ; Hung-Chi Chen
ESD PROTECTION FOR GGNMOS TECHNOLOGY BY USING TCAD MACRO-MODEL 603
Shao-Ming Yang ; Ching-Yuan Wu ; Yun-Jung Lin ; Wen-Chu Lo ; Gene Sheu ; Syed Sarwar Imam ; Aanand
IOT: INTELLIGENT BIO-TANK SYSTEM FOR SMART HOME 607
Pohsiang Tsai
A WEB-BASED CLASSROOM LEARNING AND TUTORING FRAMEWORK FOR MANDARIN AS SECOND LANGUAGE STUDENTS 611
Pohsiang Tsai ; Liching Chang
THE EMPLOYMENT OF ONLINE SELF-LEARNING CODING COURSE TO ENHANCE LOGICAL REASONING ABILITY FOR FIFTH AND SIXTH GRADER STUDENTS 616
Kai-Ming Yang ; Chih-Heng Tsai ; Lai-Chung Lee ; Chun-Ting Chen
A MOBILE LEARNING SYSTEM TO HELP IN EDUCATING GOVERNMENT EMPLOYEES BASED ON SEAMLESS EVALUATION AMONG EGYPTIAN CIVIL SERVANTS 620
Mostafa Hussien ; Samiullah Paracha
THE CONSTRUCTION IMPORT ARTS EDUCATION TRAINING LOCAL VOLUNTEERS RECOGNITION MODE, IN CHIAYI JHUCI HIGH SCHOOL TAIWAN 624
Pei-Chi Su ; Shang-Chia Chiou
INVESTIGATION OF AN AUTO MOTION AND HIGH EFFICIENCY PLATFORM FOR GENERATION SIX TO EIGHT FLAT PANEL 628
Nai-Kuei Hsueh ; Chien-Chen Diao ; Chun-Sen Wu ; Wei-Tsai Chang ; Cheng-Fu Yang ; Cheng-Yi Chen
INVESTIGATION OF A WHEEL-KNIFE MODULE WITH FEEDBACK TORQUE SIGNAL FOR GENERATION SIX TO EIGHT FLAT PANEL CUTTING 632
Chia-I Chuang ; Chien-Chen Diao ; Cheng-Fu Yang ; Chia-Lin Chen ; Wei-Tsai Chang ; Jing Liu
GROWTH OF ZNO NANO-WIRE ARRAYS USING AAO TEMPLATE AND ATOMIC-LAYER DEPOSITION METHOD 636
Wei-Fan Hsu ; Chin-Guo Kuo ; Yi-Chieh Chao ; Jeen-Fong Lee ; Cheng-Fu Yang ; Feng-Renn Juang
THE CYTOTOXICITY EFFECT OF NEPHELIUM LAPPACEUM LEAVES EXTRACT ON HUMAN CANCER CELLS 640
Zaiton Binti Abdullah ; Wan Ain Sharmimi Sofia Binti Wan Mohd Razani ; Pang Jyh Chyang ; Rosnani Binti Hasham Hisam
WASTE COOKING OIL OF RENEWABLE POLYMER FOAM COMPOSITE AS SOUND ABSORBENT MATERIALS 644
M. F. L Ahraz Sadrina ; Anika Zafiah M. Rus ; A. A N. Quratul ; Shafizah Saadon ; S. W. M. R. W. A. Sharmimi ; Md. Y. Siti Nur Khairiah ; M. Y. Yasmin Nur Khalidah ; J. Ilmia Elzahraa ; Zaiton Abdullah
A STUDY ON THE FAIR USE OF URBAN SCULPTURE COPYRIGHT 648
Qing Lin ; Zheng Lian
THE SHARING ECONOMY STRATEGY OF CREATIVE CLUSTERS 651
Tsen-Yao Chang
DIGITAL OPERATION AND CONSUMER PARTICIPATION OF LOCAL BRANDS 655
Tsen-Yao Chang
DEVELOPMENT OF A REFERENCE DESIGNING INDEX OF DOOR WEIGHT BASED ON DIRECT VISUAL DIRECT PERCEPTION FOR DOOR OPERATION 659
Heng-Hui Shih ; Chih-Fu Wu ; Shih-Bin Wang
APPLICATION OF AHP MODEL TO FACTOR EXPLORATION OF A BANK'S CREDIT INVESTIGATION ON CONSTRUCTION INDUSTRY 663
Tsai-Lung Weng ; Wei-Ting Lm ; Shih-Han Weng ; Chia-Min Chuang

A STUDY ON EXPERIMENTAL TEACHING OF 3D ANIMATION 667
Artde Donald Kin-Tak Lam ; Yu-Yi Su
A STUDY ON THE REFORM ORIENTATION OF UNDERGRADUATE CURRICULUM OF DIGITAL MEDIA ARTS 671
Qing-Hua Deng ; Artde Donald Kin-Tak Lam ; Guo-Fu She
INTELLECTUAL PROPERTY PROTECTION FOR WORKS OF APPLIED ART 674
Qing Lin ; Zheng Lian
THOUGHTS ON IT APPLICATION IN THE TEACHING MANAGEMENT OF UNIVERSITIES 677
Qing-Hua Deng ; Guo-Fu She
ON PROBLEMS REGARDING IT APPLICATION IN TEACHING MANAGEMENT 680
Qing-Hua Deng
THOUGHTS ON THE TEACHING MANAGEMENT FOR DISTANCE EDUCATION BY UNIVERSITIES IN BIG DATA ENVIRONMENT 683
Qing-Hua Deng
ANALYSIS OF OFFSHORE WIND TURBINE STRUCTURE WITH EARTHQUAKE INFLUENCE 686
Kuo-Yi Huang ; Gwo-Chung Tsai ; Ben-Jin Tsai
ADDING VIDEO FILES FOR PRODUCT OPERATIONAL ANALYSIS IN THE WEB ANALYTICAL SYSTEM 690
Shih-Yen Huang
INFLUENCES OF CUO DOPING ON THE PROPERTIES OF ZNO FILMS BY RF MAGNETRON SPUTTERING 694
H. T Chang ; Y. H. Shih ; G. J. Chen
IDENTIFICATION OF INSTANTANEOUS MODAL PARAMETERS OF A NONLINEAR BUILDING VIA A GABOR-FRAME-BASED APPROACH 698
Wei-Chih Su ; Chiung-Shiann Huang ; Ho-Cheng Lien
ANALYZING USERS' INTERACTIVE ATTITUDE AND WILLINGNESS WITH TAM ON THE TACTON'S COMPASS 702
Hsinfu Huang ; Po-Cheng Chen
MACHINABILITY ANALYSIS AND SETUP OPTIMIZATION FOR FIVE-AXIS MACHINING 706
Wei-Chen Lee ; Ching-Chih Wei
INNOVATIVE SYSTEM FOR ELECTRIC CONDUCTION HEATING AND ELECTROMAGNETIC STIRRING OF MOLTEN GLASSES 710
Virgiliu Fireteanu ; Alexandru-Ionel Constantin
DETECTION OF ORGANIC SOLVENTS BY OPTOELECTRONIC CHARACTERIZATION OF CHEMICAL SENSORS BASED ON POROUS SILICON MULTILAYERED STRUCTURES 714
Kuen-Hsien Wu ; Chong-Wei Li
A REAL-TIME HOT SWAPPING TECHNIQUE FOR SSD RAID SYSTEMS 717
Muhammed Ziya Komsul ; Alistair A McEwan ; Irfan Mir
DEVELOPMENT OF LOW COST HARDWARE-IN-THE-LOOP TEST SYSTEM AND A CASE STUDY FOR ELECTRIC VEHICLE CONTROLLER 721
Jing Lin Xia ; Qinghua Diao ; Wei Sun ; Zengzhen Xing ; Xinmei Yuan ; Tingting Dong
CONSTRUCT ABILITY INDICATORS OF LEARNING ALGEBRA 725
Jeng-Ming Yih
A STUDY ON DEVELOPING A PROFESSIONAL PERFORMANCE CHECKING SYSTEM FOR PRE-SERVICE TEACHERS OF VOCATIONAL HIGH SCHOOLS IN TAIWAN 729
Ming-Jenn Wu ; Jia-Di Chen ; Chi-Yo Huang
PROFESSIONAL AND TECHNICAL EXAMINATION FOR REGISTERED NURSE OF UNIVERSITIES AND COLLEGES WITH NURSING STUDENTS IN SPECIAL TECHNOLOGY— STUDY ON SCALE OF THE LINEAR TRANSFORMATION 733
Jui-Chiao Tseng ; Jeng-Ming Yih ; Yuan-Horng Lin
THE STUDY OF THE FACTORS IN THE EFFECT OF COSMETIC ADVERTISEMENT 737
Hsiu-Tsu Chen ; Kuo-Kuang Fan
APPLICATION OF CASINO MANAGEMENT ON CLOUD PLATFORM 741
Tsung-Chih Hsiao ; Yu-Ting Liao ; Pao-Kuan Wu ; Tzer-Long Chen ; Meng-Ta Miao ; Jen-Hung Hwang ; Luyin Zhang
EXPLORE SCENE ATMOSPHERE IN ANIMATION CREATION 745
Xiao-Yu Huang
JUMPING SPACE-TIME — THE INTERPRETATION OF ANIMATION SHOTS EDITING TECHNIQUES 749
Xiao-Yu Huang

THE INFLUENCES OF DRAWING WITH GRAPHICS SOFTWARE ON CHILDREN'S COGNITIVE DEVELOPMENT FOR ICASI 2016 753
Sung Chih-Kai ; Cheng Pei-Jung

DEVELOPING A MAINTENANCE STRATEGY OF THE CRITICAL COMPONENTS FOR THE ENVIRONMENTAL CONTROL SYSTEM OF AIRCRAFT 757
Tian-Syung Lan ; Pin-Chang Chen ; Chih-Wei Chiu ; Yu-Min Lai

RESONATOR WITH PARTITIONED GROUND PLATES FOR VCO FREQUENCY TUNING 761
W. -S. Feng ; H. -H. Li ; P. Chartterjee ; T. Wang ; Y. -C. Kuo

EVOLUTION OF LIVING INTELLIGENT INSTRUMENT: UI'S INFLUENCE 765
Chai Jiaxiang ; Cai Jiangyu ; Kuo-Kuang Fan

RAPID-PROTOTYPING DESIGNS FOR THE THREE-POWER-SOURCE HYBRID ELECTRIC SCOOTER WITH A FUZZY-CONTROL ENERGY MANAGEMENT 768
Chien-Hsun Wu ; Yi-Hsuan Hung ; Syuan-Yi Chen

NUMERICAL MOLD FILLING ANALYSIS AND FLOW VISUALIZATION VERIFICATION OF THE EFFECT OF CAPILLARY NUMBERS ON MICRO EMBOSSING MICRO GROOVES 772
Meng-Hsun Tsai ; Shi-Chang Tseng ; Chun-Ming Chung

THE STUDY OF EDUCATIONAL IMPLICATIONS IN THE DESIGN OF TAIWANESE NUPTIAL TRIBUTES 776
Huang Shi-Mei ; Ho Ming-Chyuan

THE SOCIAL VISION FOR POVERTY ALLEVIATION AND SUSTAINABLE DEVELOPMENT: A DESIGN FRAMEWORK FOR EDUCATIONAL INVESTMENTS 780
Jui-Che Tu ; Min-Chieh Shih ; Chuan-Ying Hsu

CRYPTANALYSIS OF YEH ET AL.'S TIMESTAMP BASED SCHEME USING SMART CARD 784
Chin-Ling Chen ; Yong-Yuan Deng

A STUDY OF USING BACK-PROPAGATION NETWORK TO PREDICT AIRCRAFT COMPONENT LIFE SPAN 787
Tian-Syung Lan ; Pin-Chang Chen ; Ming-Yung Wang ; Kuei-Shu Hsu ; Tung-Ying Chen

USER SATISFACTION AND USER LOYALTY IN MOBILE SNSS: WECHAT IN CHINA 790
Jia-Xiang Chai ; Kuo-Kuang Fan

THE DISCUSSION ON INFORMATION DISSEMINATION OF MEDIEVAL STAINED GLASS 793
Xue-Hui Li ; Kuo-Kuang Fan

THE STUDY ON IMAGE ADVERTISEMENT DESIGN SURVEY: TAKING THE MEDICINE ADVERTISEMENT OF RENDAN ON SHUN PAO DURING 1912-1921 AS EXAMPLE 797
Jia-Man Xing ; Chi-Shyong Tzeng

AGENT-BASED PROJECT TEAM COLLABORATION BEHAVIOR SIMULATION 801
Ming-Hsiu Tsai ; Sian-Ren Huang

SEMANTIC ANNOTATION FOR HYBRID CONTENTS 805
Yi-Hui Chen ; Enc Jui-Lin Lu ; Chuei-Yan Chiou

ASIC DESIGN AND IMPLEMENTATION FOR VOIP INTRUSION PREVENTION SYSTEM 808
Ming-Jen Chen ; Chih-Chao Wen ; Hsin-Chen Lin ; Yuan-Sun Chu

THE RACE RECORD: USING STATISTICAL ANALYSIS AND CONTENT ANALYSIS TO EXPLORE THE CULTURAL IMPLICATIONS OF TAIWAN ABORIGINES' MUSIC COVER DESIGN 812
Sieng-Hou Chen ; Li-Hsun Peng ; Kuo-Chao Huang

ADOPTION OF OPENSTREETMAP IN TAIWAN TESTING SERVQUAL-BASED ON MCDM METHODS 815
Chia-Lee Yang ; Steven J. H. Shiau ; Chi-Yo Huang ; Jer-Nan Juang

EFFICIENT LOAD BALANCING USING ACTIVE REPLICA MANAGEMENT 819
Jui-Pin Yang

AN ENGRAVING SYSTEM WITH INNOVATION TECHNOLOGY APPLIED BY CLOUD E-COMMENCE MODEL 823
Kuang-Chyi Lee ; Sheng Chen ; Chih-Chen Chen ; Sheng-Wen Hong

NEAR-FIELD AND FAR-FIELD IMAGE RECONSTRUCTION FOR A BURIED CONDUCTING CYLINDER 827
Wei Chien ; Sung-Shiou Shen ; Tsai-Hua Kang

ENHANCED KEYSTROKE DYNAMICS AUTHENTICATION UTILIZING PRESSURE DETECTION 830
Sung-Shiou Shen ; Shen-Ho Lin ; Tsai-Hua Kang ; Wei Chien

THE STUDY FOR SELECTING THE CLOUD SERVICE CONSIGNMENT PERFORMANCE IN GROUP DECISION OF SHARED SALES RESOURCE 834
Tsai-Hua Kang ; Wei Chien ; Sung-Shiou Shen

EVALUATING THE ELECTRONIC SERVICE QUALITY OF GROUP BUYING WEBSITES BY USING THE DEMATEL BASED NETWORK PROCESS 837
Chi-Yo Huang ; You-Ning Chang ; Hsueh-Hsin Lu ; Ming-Jenn Wu
EVALUATING KEY FACTORS FOR SELECTING CAPITAL EQUIPMENT SUPPLIERS A STUDY OF SMALL AND MEDIUM-SIZED TFT-LCD MANUFACTURERS 841
Chi-Yo Huang ; Hsueh-Hsin Lu
UTAUT2 BASED PREDICTIONS OF FACTORS INFLUENCING THE ACCEPTANCE OF OPTICAL TRANSLATION MEASUREMENT DEVICES BASED ON THE LEAD USER THEORY 844
Chi-Yo Huang ; Chien-Yun Dai ; Hsiao-Ming Chen
A STUDY ON STRATEGIES TO IMPROVE THE PROTECTION OF PERSONAL INFORMATION FOR UNIVERSITY LIBRARIES USERS 848
Caihong Gao
Author Index