

Table of Contents

The Effects of Activation Energy and Reference Temperature on the Qualified Life of Safety-related Equipment.....	1
<i>Sungwan Park, Sunchul Jung and Kyungheum Park</i>	
Effect of Ultraviolet Blood Irradiation in Kidney Function of Diabetes Mellitus Model.....	6
<i>Gareeballah Osman Adam, Byung-Yong Park, Shang-Jin Kim, Kyung-Min Choi, Jin-Shang Kim, Hyung-Sub Kang, Gi-Beum Kim</i>	
The Study of Debris Flow Activities in Granular Materials with Fine Grain..	17
<i>Byong-Hee Jun, Ho-Jin Lee, and Sungduk Kim</i>	
Research on the Advancement Planning of an Information System for Design Deliberation	23
<i>Hyun Ok</i>	
The Design of Vulnerability Analysis for Secure Coding of Open Source Software.....	30
<i>Sungjin Kim, Minkyung Jee, Jonghee Lee, Jaepyo Park</i>	
Speed Control of Motor for City Railway System by Using Rotor Position and Speed Detector.....	34
<i>Young-Choon Kim, Moon-Taek Cho, Ok-Hwan Kim and Kab-Soo Kim</i>	
Design of Beacon Information Service Based on Internet of Things as a “New-Concept University” Information Service.....	37
<i>Hyun Joo Kim and Min Sun Kim</i>	
A Single Grating-lens Focusing Two Orthogonally Polarized Beams in Opposite Direction.....	41
<i>Seung Dae Lee</i>	
A Study on Utilization of Computer Technology -with a Sequencer Program-	46
<i>Tae-Seon Cho</i>	
Study on the Durability Analysis of Front Excavating Part at Fatigue.....	50
<i>Jae Ung Cho and Kye Kwang Choi</i>	

A Study on the Restoration of Buckling due to the Stacking Angle of 3-Point Bending Specimen with CAE.....	54
<i>Jae Ung Cho and Gue Wan Hwang</i>	
Analysis Study of Damage Behavior on the Center Crack of Unidirectional CFRP According to Ply Angle.....	58
<i>Jae Ung Cho and Jae Woong Park</i>	
Durability Study on Turnbuckle Applied with Fatigue Load	62
<i>Jae Ung Cho and Kye Kwang Choi</i>	
The Effects of the Adding V2O5 on the Oxide Semiconductor Layer of a Dye-sensitized Solar Cell.....	66
<i>Don-Kyu Lee</i>	
Medium and Low Speed (2m/s) Governor of Core Safety Rope of 6mm Diameter Development of MRL Type Elevators.....	72
<i>Jong Seok Lee, Bo Sung Kim, Chi Min Tak, Guem Yong Cho and Byoung Jo Jung</i>	
A Quantitative Analysis on Institutional Intervention Effect into Urban Transition.....	79
<i>Jinho Park, Hyoun-Joo Kim and Woo-Hyoung Lee</i>	
Study on the Hydrologic Safety of Small Old Reservoirs	83
<i>Kyosik Kim and Ki-Bum Park</i>	
Effects of Child and Adolescent Maltreatment Experiences on the School Adjustment (Mediating Effects of Self-esteem)	87
<i>YoungKwang, Lee, Seung-Jae, Oh and Eungu Ji</i>	
A Study of Message Communication Method using Cloud Computing Technique in Vanet Environment	95
<i>Keun-Wang Lee and Byung-Wook Jin</i>	
A Research on the Disabled in Rural Areas: Focused on their Health Service Accessibility and Rehabilitation Demand.....	101
<i>Hyun-Li Kim and Hyun Hyo Kim</i>	
Implementation of the Operation and the Data Structure of the Server Using the Multi-threaded Implementation of Smart Unmanned Logistics Management System Using the Half-conversion.....	106
<i>Wonchul Choi, Seungdo Jeong and Choongchae Woo</i>	

A Study on the Air Flow Velocity and Temperature Distribution Characteristics of Hybrid Smart Farm.....	110
<i>Jae-Hwan Son, Dong-Hyun Cho and Kyu-Dong Nah</i>	
Assured Data Device with Airports and Public Wheelchair Fall Prevention System.....	118
<i>Seung-Hun Kim, Min-Seok Jie and Won-Hyuck Choi</i>	
Developing a Safety Flight Assurance Control (SFAC) System using a Quadcopter.....	124
<i>Hyeon-Woo Lim, Min-Seok Jie and Won-Hyuck Choi</i>	
Development of 3-Dimensional Motion Recognition Based Wireless Transceiver for HMD.....	129
<i>Won-Hyuck Choi, Da-Un Kim and Min-Seok Jie</i>	
A Study on Optimal Preventive Maintenance Overhaul of Running Gear for High Speed Rolling Stock.....	134
<i>Kim, Chul-Su, Hwang, Ji-Hwan and Jung, Jin-Tae</i>	
Development of Neighbourhood Renewal Strategies in Malaysia through Best Practice and Transferable Lessons from South Korea and England.....	138
<i>Wan Jiun Tin and Seok Hwan Lee</i>	
Development of Movable Testing Equipment for Artificial Light Source Photovoltaic Module.....	145
<i>SungHyuk Yang, Dong Joo Shin and Hoyeon Chung</i>	
Exhibition Strategy of Digital 3D Data of Object in Archives using Digitally Mediated Technologies for High User Experience.....	150
<i>Jaeho Ryu, Minsuk Kim, Yeonhong Min, Minhee Jung, Jungin Lee, Sangyul Lee, Eunsang Cho and Wonjong Joo</i>	
The Algorithm of Fast Intra Angular Mode Selection for HEVC	157
<i>Seungyong Park, Richard Boateng NTI and Kwangki Ryoo</i>	
An Improved Algorithm for Laser Point Detection Based on Otsu Thresholding Method.....	162
<i>Incheol Park, Jongho Park, Youngbaik Kim and Kildo Chong</i>	
Differential Assay Performance between Direct and Indirect Functional Measurements for the G Protein Coupled Receptor	168
<i>Seohyun Park and Sunghou Lee</i>	

Body Pressure Distribution Measurement for Comfort Evaluation of a Coccyx Seating Mat.....	173
<i>Yong-Du Jun, Seung-Man Cho and Seong-Hyun Park</i>	
Study on the Signboard Region Detection in Natural Image.....	179
<i>Daeyeong Lim, Youngbaik Kim, Incheol Park, Jihoon Seung and Kildo Chong</i>	
High Optical Angle Test and Analysis for Automotive Camera	185
<i>Hyoung-Keun Park</i>	
Hierarchical Compression of Deep Convolutional Neural Networks on Large Scale Visual Recognition for Mobile Applications	189
<i>Byungjo Kim, Miyoung Lee, Jinkyu Kim, Juyeob Kim, and Joohyun Lee</i>	
The Noise Characteristics of Reduction Gear for Moving Device of Automotive Seat	195
<i>Sung Yuk Kim, Su Min Chae, Oh Hwan Jeon and Key Sun Kim</i>	
The Relationship between Emotional Intelligence, Ego-Resilience, Stress Coping Strategies & Clinical Practice Stress in Nursing Students	199
<i>Hyun ju Kim and Jin Ah Lee</i>	
Cloud-based Modeling and Simulation Platform	203
<i>Myungil Kim, Dongwoo Seo, Daeyong Jung and Jaesung Kim</i>	
Analysis of Powder Compression Molding for Automotive Components Using Finite Element Method.....	207
<i>Bum Suk Oh, Ju Gwang Jang and Key Sun Kim</i>	
Micronization of Poorly Water-Soluble Trichlorocarbanilide Using Supercritical Carbon Dioxide	211
<i>Jeong-Lae Kim, Seonhwa Kim and Moon Sam Shin</i>	
Smart Convergence Platform for Software Defined Radio Application.....	218
<i>Hyoseok Yoon, Ji-Eun Lee, Saet-Byeol Yu and Se-Ho Park</i>	
Evaluation Indicators for Service Performance of Road Tunnels.....	223
<i>Kyonghoon Kim and Taeil Park</i>	
A Spatial Unit Review of the Analysis on Disaster Vulnerability of Climate Change by Heavy Rain	230
<i>Jong-Young Park and Jung-Sik Lee</i>	

A Study on Thermal Comfort of the Change Room of Public Bathhouse.....	236
<i>Seonghoon Yoon and Yekyeong Shin</i>	
Effects of Kangaroo Care on Physical Development and Adaptation of External Environment of Prematurity, and Maternal Role Confidence Who Delivered Premature Infants	240
<i>Ji-Won Lee and Yong-Sook Eo</i>	
Comparative Study on One-Dimensional Models for Particle Collection Efficiency of a Venturi Scrubber	245
<i>Ji-Su Kim and Jong Woon Park</i>	
Preparation of FMMS Improvement Measures through the Application of BIM in Transport Safety Inspection Work	251
<i>Tae-Hak Kim, Seong-Jin Kim</i>	
A Study on Radiation Effects on PWM-IC Controller of DC/DC Power Buck Converter	257
<i>Young Hwan Lho and Surender Reddy Salkuti</i>	
Intelligent Detecting Technique of APT Attack	263
<i>Sun-Myung Hwang, Seong-Uk Park and Jung-Tae Kim</i>	
A Study on Vehicle Routing Problems Considering IoT based Real Time Information	267
<i>Kangbae Lee, Doo-hwan Kim, Hyung Rim Choi, Byung Kwon Park, Min Je Cho, Dong Yeon Kang, Seong Ho Park and Sang Ha Sung</i>	
A Study on Co-creation based Knowledge Storage Development	271
<i>Soon-Goo Hong, Hyun Jong Kim, Hyung Rim Choi and Min Je Cho</i>	