

Conference Program

October 29, 2012 (1st Day)

9:00 – 9:20	Registration		Venue: B203, Aula spei (Miraegwan, Building No.33)
9:20 – 9:30	Welcome Address Kun Lee (President, University of Seoul)		
9:30 – 9:40	Opening Address Shinji Harada (Vice President, Kumamoto University)		
9:40 – 10:10	Keynote Speech 1	Prof. Doyeol Ahn	
10:10 – 10:40	Keynote Speech 2	Prof. Eun Seong Hwang	
10:40 – 11:10	Keynote Speech 3	Prof. Jie-Eun Hwang	
11:10 – 11:40	Keynote Speech 4	Prof. Jun Otani	
11:40 – 11:50	Notice for Oral and Poster Sessions		
11:50 – 13:30	Lunch (Cafeteria, Student Hall, Building No.15)		
13:30 – 17:00	Oral Session I (Room: International Conference Hall, 2 nd Floor, 21 st Century Building) Paper No. 1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 2-1, 2-2, 2-3, 2-4, 2-5, 2-6		
	Oral Session II (Room: Conference Room, 1 st Floor, Natural Science Building) Paper No. 3-1, 3-2, 3-3, 3-4, 3-5, 3-6, 3-7, 3-8, 3-9, 3-10, 3-11		
	Oral Session III (Room: International Conference Hall, 2 nd Floor, Natural Science Building) Paper No. 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8, 4-9, 4-10, 4-11, 4-12		
	Oral Session IV (Room: 118, 1 st Floor, 21 st Century Building) Paper No. 5-1, 5-2, 5-3, 5-4, 5-5, 5-6, 5-7, 7-1, 7-2, 7-3, 7-4, 7-5		

October 30, 2012(2nd Day)

8:30 – 9:00	Registration (Location: In front of the International Conference Hall (2 nd Floor), Natural Science Building)
9:00 – 12:00	Oral Session V (Room: Conference Room, 1 st Floor, Natural Science Building) Paper No. 2-7, 2-8, 2-9, 2-10, 8-1, 8-2, 8-3, 11-1, 11-2
	Oral Session VI (Room: 125, 1 st Floor, 21 st Century Building) Paper No. 6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 9-1
	Oral Session VII (Room: International Conference Hall, 2 nd Floor, Natural Science Building) Paper No. 4-13, 4-14, 4-15, 4-16, 4-17, 4-18, 4-19, 4-20, 4-21, 4-22, 4-23
	Undergraduate Session (Room: 507, 5 th Floor, 21 st Century Building) Paper No. U-1, U-2, U-3, U-4, U-5, U-6, U-7, U-8, U-9, U-10, U-11, U-12, U-13, U-14
12:00 – 14:00	Poster Session Student Exchange Party (Lunch will be provided) Closing Ceremony (Venue: International Conference Hall, 2 nd Floor, 21 st Century Building)
14:00 – 15:00	Campus Tour

UOS Campus TOUR



No.	Building Name	No.	Building Name
01	Cheonnong Hall	02	The 1st Engineering Building
03	Architecture and Civil Engineering	04	Economics and Business Building
05	Liberal Arts Building	06	Baebong Hall
07	University Center	08	Natural Science Building
09	Music Building	10	Architecture Engineering Lab
11	The 2nd Engineering Building	12	Student Hall
13	University Press and ROTC Building	14	Science and Technology Building
15	The 21st Century Building	16	Design and Sculpture Building
17	University Gymnasium	18	Birch Hall
19	Information& Technology Building	20	General Lecture and Law Institute
21	Main Library	22	Student Dormitory
23	Laboratory of Architectural Engineering	24	Lumber Mill
25	Campus Maintenance Center	26	Greenhouse
27	Main Auditorium	28	Main Stadium
29	University Museum	30	Main Gate
31	Rear Gate	32	Wellness Center
33	Aula spei	34	International House
35		36	Institute of International Cooperation and Education

Session I

Time: 13:30~17:00, October 29 (Monday)

Room: International Conference Hall, 2nd Floor, 21st Century Building

- 13:30~13:45 (1-1) Spin Crossover Properties and Chiral Assembly Structures of Iron(II) Complexes $[\text{Fe}^{\text{II}}(\text{HL}^{\text{R}})_3]\text{Cl}\cdot\text{PF}_6$ (R = 1, 2, 3)
Koshiro Nishi, Naohide Matsumoto, Yukinari Sunatsuki, and Takayoshi Suzuki
- 13:45~14:00 (1-2) Dinuclear Copper (II)-Gadolinium (III) Complexes with Symmetrical and Unsymmetrical N_2O_2 Schiff Base Ligands toward Single Molecule Magnets
Hirokazu Kawashima, Naohide Matsumoto and Yukinari Sunatsuki
- 14:00~14:15 (1-3) Selective syntheses of high- and low-spin iron(II) complexes by substituent effect
Osamu Sakaguchi, Hiroaki Hagiwara, Naohide Matsumoto and Yukinari Sunatsuki
- 14:15~14:30 (1-4) Reaction of graphene oxide in photoreduction process
Kazuto Hatakeyama, Michio Koinuma, Takaaki Taniguchi, Kamei Yuki, Chikako Ogata, Hikaru Tateishi and Yasumichi Matsumoto
- 14:30~14:45 (1-5) Graphene oxide super-capacitor (GOSC)
Chikako Ogata, Jun Kuroda, Kengo Gezuhara, Kazuto Hatakeyama, Takaaki Taniguchi, Michio Koinuma, and Yasumichi Matsumoto
- 14:45~15:00 (1-6) Fabrication of Multifunctional Graphene Oxide Electrodes by Anodic Oxidation Method
Hikaru Tateishi, Kazuto Hatakeyama, Chikako Ogata, Takaaki Taniguchi, Michio Koinuma and Yasumichi Matsumoto
- 15:00~15:15 Coffee Break
- 15:15~15:30 (2-1) Effect of Additive Content on Properties of Ceramic Microfiltration Membranes
Jung-Hye Eom, Kun-Mo Kim, and Young-Wook Kim
- 15:30~15:45 (2-2) Development of ductile B2-type Co-Fe-Ni alloy
Kozo Yamashita, Mitsuhiro Matsuda, Kazuki Takashima
- 15:45~16:00 (2-3) Surface modification of IV, V and VI-group metals by carbon and nitrogen diffusion technique
Yuta Hara, Yasuhiro Morizono and Sadahiro Tsurekawa
- 16:00~16:15 (2-4) Effect of Powder Characteristics on Electrical Properties of SiC Ceramics
Kwang-Young Lim, Hee-Jong Yeom, and Young-Wook Kim
- 16:15~16:30 (2-5) Near-Infrared (NIR) excited and emission luminescent properties of the Nd^{3+} Doped Provskite Nanosheet
Asami Funatsu, Yousuke Tokita, Yuki Nojiri, Tomoaki Murakami, Takaaki Taniguchi, and Yasumichi Matsumoto
- 16:30~16:45 (2-6) Carbonitriding of stainless steel using steel powder
Naohisa Matsuda, Yasuhiro Morizono and Sadahiro Tsurekawa

Session II

Time: 13:30~17:00, October 29 (Monday)

Room: Conference Room, 1st Floor, Natural Science Building

- 13:30~13:45 (3-1) Gain Enhancement of Circularly Polarized Slender Antenna Using a Wider Helical Element
Ye ZHANG and Takeshi FUKUSAKO
- 13:45~14:00 (3-2) Road Extraction Using Optimized Region Growing on Digital Surface Model (DSM) Data
Darlis HERUMURTI, Keiichi UCHIMURA, Gou KOUTAKI, Takumi UEMURA
- 14:00~14:15 (3-3) Hybrid Filter for High Density Impulse Noise Removal
Fitri Utaminigrum, Keiichi Uchimura and Gou Koutaki
- 14:15~14:30 (3-4) Image Enlargement with Shift Pixel and Edge Reconstruction Based on Local Image Data
I Komang Somawirata, Keiichi Uchimura, and Gou Koutaki
- 14:30~14:45 (3-5) Study on pilot blended learning course for a teacher's college in Mongolia
Narangerel Jachin, Tsuyoshi Usagawa and Yoshifumi Chisaki
- 14:45~15:00 (3-6) Research on High Frequency Transfer Characteristics of Rogowski coils Transducer
Minjiang Xiang and Houlei Gao
- 15:00~15:15 Coffee Break
- 15:15~15:30 (3-7) Semantic Cosine Similarity
Faisal Rahutomo, Teruaki Kitasuka, and Masayoshi Aritsugi
- 15:30~15:45 (3-8) A preliminary study on students' readiness for e-Learning at UPNG Open College
Kipli Joan Minol, Yoshifumi Chisaki and Tsuyoshi Usagawa
- 15:45~16:00 (3-9) EFTLB: an economical, fault-tolerant and load balancing architecture for fast and highly-available data stream processing
Fuyuan Xiao, Teruaki Kitasuka and Masayoshi Aritsugi
- 16:00~16:15 (3-10) Gene expression analysis of HeLa S3 cells subjected to nanosecond pulsed electric fields
Masaya Morodomi, Misako Yamo, Keisuke Abe, Sunao Katsuki and Hidenori Akiyama
- 16:15~16:30 (3-11) The Island of Tonga technical infrastructure Analysis prior to e-learning implementation.
Hans T. Sopo, Francis L. Lavaki, Chisaki Yoshifumi and Tsuyoshi Usagawa

Session III

Time: 13:30~17:00, October 29 (Monday)

Room: International Conference Hall, 2nd Floor, Natural Science Building

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| 13:30~13:45 | (4-1) Proposal of Simplified Dynamic Model for 3-dimensional Multi-story Steel Moment Frames with Eccentricity
<i>Daisuke Ehara, Minoru Yamanari and Koji Ogawa</i> |
| 13:45~14:00 | (4-2) Effect of varying axial force of column on vibration control of steel moment frame with passive friction dampers
<i>Ryota Nakamura, Kohei Ozasa and Minoru Yamanari</i> |
| 14:00~14:15 | (4-3) A structural behavior of brace reinforced by Cold-formed element
<i>Min-Kyu Kim and Sung-Mo Choi</i> |
| 14:15~14:30 | (4-4) Tensile Failure Process in Fiber-Reinforced Concrete Identified by AE SiGMA Procedure
<i>Mielke R.I.A.J Mondoringin and Masayasu Ohtsu</i> |
| 14:30~14:45 | (4-5) Computer-assisted Education Tools for Steel Deck Slab with New Concept
<i>Asami Sawahara, Sho Masumoto, Ryo Murata, Kouichi Harada and Minoru Yamanari</i> |
| 14:45~15:00 | (4-6) Flexural Capacity of Deep-deck Having Continuity Provided by Cap-plate and Re-bars
<i>Ki Youn Park and Sung Mo Choi</i> |
| 15:00~15:15 | Coffee Break |
| 15:15~15:30 | (4-7) Design and Analysis of Intelligent Structural Systems
<i>Viraj Voditel</i> |
| 15:30~15:45 | (4-8) Seismic Response Analyses of 3-D Model Folded Cantilever Shear Structure
<i>Ming Narto Wijaya, Ercan Serif Kaya, Takuro Katayama and Toshitaka Yamao</i> |
| 15:45~16:00 | (4-9) Quantitative Identification Theory and Method on Water Inrush Advanced Detection using Induced Polarization in Tunnel
<i>Lichao Nie, Shucai Li and Bin Liu</i> |
| 16:00~16:15 | (4-10) The Nonlinear Dynamic Analysis on Strength and Seismic Behavior for Half-Through Steel Arch Bridge
<i>Evi Nur Cahya, Toshitaka Yamao and Nobumitsu Moriyama</i> |
| 16:15~16:30 | (4-11) Improving Traffic Flow Stability on Merging and Diverging Section of Freeway Median HOV Lane Using VSL
<i>Ho-Chul Park, Hyunwoong Cho, Dong-Kyu Kim and Chungwon Lee</i> |
| 16:30~16:45 | (4-12) Evaluation of Engineering Property of Different Asphalt Mixtures using X-ray CT
<i>Keiichiro Ogawa and Jun Otani</i> |

Session IV

Time: 13:30~17:00, October 29 (Monday)

Room: 118, 1st Floor, 21st Century Building

- 13:30~13:45 (5-1) Network Analysis of welfare facility for the elderly in GIS Environments in Omuta City
Chen CHEN, Riken HOMMA and Kazuhisa IKI
- 13:45~14:00 (5-2) Built a mode choice model for transit system
Sungyong Na
- 14:00~14:15 (5-3) DEFINE THE URBAN GROWTH PATTERN
Deni Agus Setyono, Kazuhisa Iki and Rikken Homma
- 14:15~14:30 (5-4) Development of Gate Choice Model of Subway Station
Jihun Park
- 14:30~14:45 (5-5) Hinagu Spa Town's Charm And the Challenges It Faces - Town Planning of Hinagu Spa Town in Yatsushiro City-
Sachiko Tsunoda and Setsuko Isoda
- 14:45~15:00 (5-6) Preliminary Study on Building Information Modeling in Education
Hangyeol Kim and Jie-eun Hwang
- 15:00~15:15 Coffee Break
- 15:15~15:30 (5-7) Strategy on the Test-bed of Korean Land Spatialization Program for Ubiquitous GIS
Jiman Park and Chulmin Jun
- 15:30~15:45 (7-1) Cadmium Perturbs Motor Behavior of Zebrafish Larvae
Sugiyono and Mitsuyo Kishida
- 15:45~16:00 (7-2) Fadrozole, an Aromatase Inhibitor, Decreases Motor Activity through Dopamine Signaling in Zebrafish Larvae
Ratu Fatimah and Mitsuyo Kishida
- 16:00~16:15 (7-3) A concentration-dependent mechanism by which YdiV inhibits flagellum biogenesis and motility
Bingqing Li and Lichuan Gu
- 16:15~16:30 (7-4) Epiphytic Bacteria Isolated from the Red Alga, *Porphyra yezoensis*
Midia Handayani, Hiroyuki Sasaki, Ryuya Matsuda, Katsuaki Takechi, Hiroyoshi Takano, Susumu Takio
- 16:30~16:45 (7-5) An Event-Related Potential study of the visual symmetry discrimination in human brain
Alwin Melkie Sambul, Nobuki Murayama and Tomohiko Igasaki

Session V

Time: 9:00~12:00, October 30 (Tuesday)

Room: Conference Room, 1st Floor, Natural Science Building

- 9:00~9:15 (2-7) Characteristics of Sn-Bi Micro-Bumps Fabricated by Electroplating for Low Temperature Soldering
Myong-Hoon Roh and Jea-Pil Jung
- 9:15~9:30 (2-8) Effect of magnetic field on α/γ transformation in Fe-Co alloys
Wataru Maruno, Yasuhiro Morizono and Sadahiro Tsurekawa
- 9:30~9:45 (2-9) Structure, mechanical properties and corrosion resistance of "Ti-Ta" coatings fabricated by a focused electron beam injected in atmosphere
Aleksey Ruktuev, Olga. Lenivtseva, Anna Losinskaya, Olga Butylenkova, Daria Mul', and Viktoria Aleksandrova
- 9:45~10:00 (2-10) Microstructural stability in heat-affected zone of grain boundary engineered ferritic heat-resistant steel
Ryo Nakazono, Yasuhiro Morizono and Sadahiro Tsurekawa
- 10:00~10:15 (8-1) Advanced application of UV-assisted polishing method in the sharpening process of PCD cutting tools
Daisuke Ishimaru, Daisuke Matsunaga, Takeshi Sakamoto and Mutsumi Touge
- 10:15~10:30 Coffee Break
- 10:30~10:45 (8-2) Visualization of Air Temperature Field and Flow Pattern Using a Mesh Screen
Yuya Kurayama, Daichi Ishizaki, Yasushi Koito and Toshio Tomimura
- 10:45~11:00 (8-3) Development of a Safe and Confidential Meal Supporting Machine with Video Recognition System for Disabled People
Takeshi Yamasaki, Kazuhito Fujiwara, Fumiko Kawashima, and Hidehiro Hata
- 11:00~11:15 (11-1) A Theoretical Analysis of the Viscosity of Ion Conducting Polymers Based on the Bond Strength-Coordination Number Fluctuation Model and the WLF Equation
Sahara and Masaru Aniya
- 11:15~11:30 (11-2) Synthesis and Magnetic Analysis of Iron Oxide Nanoparticles
Shinichiro Iwamoto

Session VI

Time: 9:00~12:00, October 30 (Tuesday)

Room: 125, 1st Floor, 21st Century Building

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| 9:00~9:15 | (6-1) A Study on the Estimation of Green House Gas Emissions from Transportation-Sector in Seoul by Bottom-up Approach
<i>Jin Sik Kim, Im Hack Lee and Shin Do Kim</i> |
| 9:15~9:30 | (6-2) A Novel Method for WEEE Recycling Featured by Microwave-induced Pyrolysis Combined with Mechanical Processing
<i>Jing Sun, Wenlong Wang, Zhen Liu, Qingluan Ma and Chunyuan Ma</i> |
| 9:30~9:45 | (6-3) Analysis of Compact City Structure Scenarios for the Reduction of Energy Consumption in Kumamoto Metropolitan Region
<i>Kohei Aikawa and Shoshi Mizokami</i> |
| 9:45~10:00 | (6-4) Applications of next-generation sequencing in <i>Chironomus riparius</i> exposed to various environmental pollutants
<i>Sun-Young Park, Prakash M. Gopalakrishnan Nair and Jinhee Choi</i> |
| 10:00~10:15 | (6-5) Reliability Assessment of Small-Scale Power System Cooperating SHPP with WTG or PV
<i>Kensuke Tanaka, Suguru Iwami and Hajime Miyauchi</i> |
| 10:15~10:30 | Coffee Break |
| 10:30~10:45 | (6-6) Toxic mechanism and comparison of silver nanoparticle in vitro and in vivo
<i>Hyun-Jeong Eom, JungMin Ahn and Jinhee Choi</i> |
| 10:45~11:00 | (9-1) A Generalization of <i>h</i> -Implications
<i>Aifang Xie and Huawen Liu</i> |

Session VII

Time: 9:00~12:00, October 30 (Tuesday)

Room: International Conference Hall, 2nd Floor, Natural Science Building

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| 9:00~9:15 | (4-13) Evaluation of Soil-Pile Interaction Due to Installation of Spiral Pile Using X-ray CT
<i>Satoshi Hayashi, Jun Otani, Takeo Harada, Naoto Iwasa and Atsuo Hirata</i> |
| 9:15~9:30 | (4-14) Mechanical Properties of Cold-Formed Structural Square Hollow Sections
<i>Fuminori Okawa and Kenshi Ochi</i> |
| 9:30~9:45 | (4-15) Ductile Tearing Analysis of Circular Hollow Section Joints
<i>Shun Iwamoto and Kenshi Ochi</i> |
| 9:45~10:00 | (4-16) Analytical Study on Flexural Torsional Buckling of Channel Steel Columns
<i>Kenta Nakazono and Koji Ogawa</i> |
| 10:00~10:15 | (4-17) Rheological Properties and Flow Dynamics in Hyperconcentrated Sediment Laden Flow
<i>Liany A. Hendratta and Terunori Ohmoto</i> |
| 10:15~10:30 | Coffee Break |
| 10:30~10:45 | (4-18) Gravity-driven Sediment Transport on Intertidal Flat: Morphology and Numerical Prediction due to Sea Level Rise
<i>Lusia Manu, Hiroki Shiraishi, Takaomi Hokamura and Fumihiko Yamada</i> |
| 10:45~11:00 | (4-19) Extraction Method of the Building Component by Cluster Analysis with Spatial Coordinate of Point Cloud Data
<i>Lin Chen, Riken Homma and Kazuhisa Iki</i> |
| 11:00~11:15 | (4-20) Development of Knowledge-based Structural Design System of Steel Deck Structural Slab
<i>Ryo Murata, Sho Masumoto, Asami Sawahara, Kouichi Harada and Minoru Yamanari</i> |
| 11:15~11:30 | (4-21) Acquisition of Design Space of Steel Deck Compound Slab by Means of New Concept Engine
<i>Sho Masumoto, Ryo Murata, Asami Sawahara, Kouichi Harada, Minoru Yamanari</i> |
| 11:30~11:45 | (4-22) Behavior of Steel Frames with Brace Members Taking into Account Buckling
<i>Hamid Afzali and Toshitaka Yamao</i> |
| 11:45~12:00 | (4-23) Effects of Regularly Arrayed Strip Roughness on Flow Resistance and Turbulent Flow Structure in an Open Channel
<i>Sukarno Tohirin and Terunori Ohmoto</i> |

Undergraduate Session

Time: 9:00~12:00, October 30 (Tuesday)

Room: 507, 5th Floor, 21st Century Building

- 9:00~9:10 (U-1) Flooded Disaster in Kumamoto
Saki Minami
- 9:10~9:20 (U-2) Using Mixed Strain Nostoc CPG8, CPG24, and CIM7 Results of Preservation by Freezing Method (-40C) as Biofertilizer Rice Plant (*Oryza sativa*) Varieties of Ciherang
I. Regy Ridart, Ima Apriliani, Ihsan Hilmiawan, Astrid Damayanti and Dinur Rahmani Sadat
- 9:20~9:30 (U-3) The Future Energy
Azumi Miyamoto
- 9:30~9:40 (U-4) Traffic Changes nearby Hannam bridge in Case of Its Collapse by A Natural Disaster
Tae-woong Kim, Ji-hyun Tae and Mu-yeob Kim
- 9:40~9:50 (U-5) Field Research on Electricity Load in Downtown Kumamoto
Mayuko Hisano
- 9:50~10:00 (U-6) Rainfall Forecasting Method in Sub Pungging, Mojokerto City by using Seasonal Autoregressive Integrated Moving Average (SARIMA) with Outlier Detection As an Efforts to Optimize Agricultural Production
Ary Miftakhul Huda and Achmad Choiruddin
- 10:00~10:10 (U-7) Hydraulic property of clay liners subjected to freeze-thaw cycle
Tomoko Maeada and Toshifumi Mukunoki
- 10:10~10:30 Coffee Break
- 10:30~10:40 (U-8) Optimization Analysis of Health Service Server through Extend Simulator Program by Using Response Surface Regression Method in Jolotundo Clinic, Surabaya
Novella Putri Iriani and Ary Miftakhul Huda
- 10:40~10:50 (U-9) About of northern Kyushu heavy rain
Yusei Mizota
- 10:50~11:00 (U-10) Agribusiness Laboratory for Rural Energy By Utilizing Scalar Durian Seeds (*Durio zibethinus L*) as Bioethanol Through Industrial Sustainability Model
Agung Wicaksono and Ulfah Purwaningsih
- 11:00~11:10 (U-11) Experience of Disaster Volunteer Activity in “Kumasukegumi”
Sho Yasunaga
- 11:10~11:20 (U-12) V-SURE: The Food Guarantee for Indonesia Farmers
Imanda Dea Sabiella and Anggraeni Putri Manikam
- 11:20~11:30 (U-13) The Living Thing Which We Should Protect
Ayane Motomitsu
- 11:30~11:40 (U-14) Heavy metal pollution and Ecological restoration in the abandoned tungsten/stannum mines areas of Shuiyanba, Guangxi Province of China
Xie Jiale

Poster Session

Time: 12:00~12:30, October 30 (Tuesday)

Room: International Conference Hall, 2nd Floor, 21st Century Building

- 1-7 Ferroelectric Property for Mixed-Valence Biferrocene Liquid Crystals
Kana Shirahama and Shinya Hayami
- 1-8 Preparation of Magneto-responsive Hybrid Hydrogels through Nanoparticle-crosslinked Polymer Network Formation
Hiroyuki Goro, Makoto Takafuji and Hirotaka Ihara
- 2-11 Self-Organized Dots Of Pt-Group Nano Films With Low Temperature Rapid Thermal Annealing
Yunyoung Noh, Juneyoung Lee and Ohsung Song
- 2-12 Extremely Low Temperature Process for Ruthenium Nano Thin Films with Atomic Layer Deposition
Yunyoung Noh, Jeongho Song and Ohsung Song
- 2-13 Nanostructures and Mechanical Properties of Wire-brushed SUS30 Sheets
Asako Ikegami, Takahiro Kawamoto, Hiromoto Kitahara, Maayuki Tsushida and Shinji Ando
- 3-12 Faraday's Induction in Nano-Transformer with Oxide Layer
Jin Ho Bae, Seok Nam Ko, Dong Su Kim and Maeng Ho
- 3-13 Implementation of USN Air Quality Monitoring System for Subway Stations
Byung-Bin Min, Yong-Hwa Kim and Gyu-Sik Kim
- 3-14 Implementation of Dual Controller for High Dynamic Performance of Linear Compressors
Jae-Wu Nam, Byung-Bin Min, Jun-Tae Oh and Gyu-Sik Kim
- 3-15 Circular Energy Model for Unequal Clustering of Wireless Sensor Networks
Amin Suharjonon Wirawan and Gamantyo Hendrantoro
- 3-16 Electron Transport in Quantum Point Contact
Seoknam Ko, Jinho Bae, Dongsu Kim, Maegho Son and Doyeol Ahn
- 3-17 Sensorless Controller Design with Efficient Parameter Identification of Linear Compressors
Jae-Wu Nam, Byung-Bin Min, Jun-Tae Oh and Gyu-Sik Kim
- 4-24 Bonding Performance of FRP and Steel
Jaeyong Ryoo, Sungmo Choi, Kyoungjin Oh, Weonsik Lee and NoJoon Park
- 4-25 Visualization of Deformation on Vertical Drain Material under Consolidation Settlement
Keisuke Tanaka, Yuito Tagashira and Jun Otani
- 4-26 Seismic Response Control of Steel Moment Frame with Damage Concentration in the First Story with Rotational Friction Damper
Kohei Ozasa, Ryota Nakamura and Minoru Yamanari

- 4-27 Contribution of Conventional Steel Braces to Seismic Control of Steel Frames
Izumi Miyashita and Koji Ogawa
- 4-28 A Deterministic Analysis on Exit Transition Method for Emergency Vehicle Preemption
Kyung-Sik Hong, Dong-Kyu Kim and Chungwon Lee
- 5-8 The Efficiency in ‘Integrated Waste Management’ based on AVAC system and Resource recovery facility by Incineration’ –Focus on comparison of Eco Plant and Hammarby Sjöstad
Eun Young Kim and Jung Bin Kim
- 5-9 Impact of Hi-Pass Speed Limit on Traffic Flow and CO₂ Cost
Heung Gweon Sin and Seungjae Lee
- 5-10 An Analysis on the Congestion of the Singular and Multiple Station in Seoul Considering the Land-use Pattern of the Area of the Adjacent Stations
Hyemin Lim and Seong-Man Jang
- 5-11 Analysis on the Reduction Effect of Carbon Dioxide According to the Scale of Urban Development
Joo Yeon Go, Bo Hyun Kim and Seungil Lee
- 5-12 A Study on Relocation Distances and Directions of Firms in Seoul Metropolitan Area
Yeong-Gyeong Kang, Young-Soo An and Seung-Il Lee
- 5-13 Identifying the Factors Affecting the Traffic Violations by the Driver’s License System Simplification
Gyung-mi Kang and Do-Gyeong Kim
- 5-14 Identifying Correlation Between the Human Factors and Willingness to Drive Under the Influence of Alcohol (DUIA)
Hee-Jae Ahn, Gyung-Mi Kang and Do-Gyeong Kim
- 5-15 Comparative of Efficiency between Right Turn On Red and No Turn On Red Systems
You-jin Lim and Do-Gyeong Kim
- 5-16 Application of Multi-Agent Transport Simulation for Urban Road Network Operation in Incident Case
Yeunseung Yu, Jooyung Kim and Seungjae Lee
- 5-17 A Transit Assignment Model under Vehicle Capacity and Station Congestion
Jooyoung Kim
- 5-18 The Human-oriented Urban Street Design by Applying ‘Living Streets’ Concept
Minsu Jin, Jaisung Choi, Sunggyu Kim and Seungwon Jeong
- 5-19 Complementary Study on the Calculation of Required Railway Cars for Estimating Railway Project’s Cost
Hyungseo Ki and Dongjoo Park
- 5-20 Study on the Improvement of Legal System for Ensuring the Safety of Bicycle Riders - the Case of Seoul in Korea
Joonbum Lim and XiaoKun Li

- 6-7 Fundamental Study of Exploding Wire for Pulsed Plasma Thruster
Takemasa TERA0 and Yuki OKAWA
- 6-8 Development of High Velocity Launching Equipment Using Helium
Katsuhiro Fujiki, Hidehiro Hata, Kazuhito Fujiwara and Fumiko Kawashima
- 7-6 PINK1/Parkin-mediated Mitochondrial Targeting in NAM-induced Mitophagy Pathway
So-young Jang and Eun Seong Hwang
- 7-7 Occurrence of Leaf Spot on *Miscanthus* spp. Caused by *Alternaria* sp. in Korea
Won-Seok Na, Bong-Goan Chon and Jin-Won Kim
- 7-8 Biological Control of *Sclerotinia sclerotiorum* in Lettuce Using an Antagonistic Bacterium
Bong-Goan Chon, Jin-Won Kim, Won-Seok Na and Enkhjargal Baljii
- 7-9 Control of Root Rot of Sweet Pepper Caused by *Phytophthora capsici* with Nonionic Surfactants in a Recirculating Hydroponic System
Enkhjargal Baljii, Won-Seok Na and Jin-Won Kim
- 7-10 NADPH Oxidase Activation by β -Glucan of *Phellinus baumii* on Murine Macrophage
Batbayar Sainkhuu, Soo Kyung Yoon, Eun Do Park and Ha Won Kim
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