

Session I . Mechanical System Engineering

Venue : Room 1003, Jonghap Hall

Time	Presenter	Topic of Presentation	P/G/R	Univ.	Chair
1:30 ~ 1:50	Young-Man, Choi	Ultra-Fine Pattern Printing Technology	P	A	Prof. Dae-Shik, Kang(A)
1:50 ~ 2:10	Shuichi Torii	Enhancement of Turbulent Heat Transfer in Circular Pipe Using Nanofluid	P	K	
2:10 ~ 2:25	Joon-Yong, Park	A Parametric Study Of Conical Frustum Geometry For Improvement Of Cooling Performance Of Vortex Tube	G	A	
2:25 ~ 2:40	Takumi Inoue	Effect of surface texturing on Co-Cr-Mo alloy on wear characteristic of ultra-high molecular weight polyethylene in total joint replacement	G	K	
2:40 ~ 2:50	Break Time(10')				
2:50 ~ 3:10	Guoliang Liu	Autonomous Robot Technology and Corresponding University Education	P	S	Prof. Shuichi Torii(K)
3:10 ~ 3:30	Dae-Shik, Kang	Ultra-Mechanosensitive Spider-Inspired Nanoscale Crack Sensor	P	A	
3:30 ~ 3:50	Taekyung Lee	Ultrafine-grained bulk rod manufactured by multi-pass caliber-rolling	P	K	
3:50 ~ 4:05	Gwan-Taek, Kim	A experimental study of the performance change of HEPA filter in accumulating Incense smoke particle	G	A	
4:05 ~ 4:15	Break Time(10')				
4:15 ~ 4:30	Kenshiro Nakatake	Development of three-dimensional deformable filter for flexible target trapping	G	K	Prof. Guoliang Liu(S)
4:30 ~ 4:45	Byung-Joo, Choi	Experimental verification of drop impact test and analysis for mobile electronics	G	A	
4:45 ~ 5:10	Discussion & Closing(25')				
5:10 ~ 5:40	Poster Session				
6:00 ~ 8:00	Banquet			Ibis Hotel Suwon	

P : Professor, G : Graduate student / S : Shandong University, K : Kumamoto University, A : Ajou University

Session II. Materials Science and Engineering & Others (Applied Chemistry and Biochemistry)

Venue : Room 1004, Jonghap Hall

Time	Presenter	Topic of Presentation	P/G/R	Univ.	Chair
1:00 ~ 1:15	In-Sun, Cho	Engineering of metal oxide nanowires by flame process for efficient solar water-splitting	P	A	Prof. Hak-Ki, Yu(A)
1:15 ~ 1:30	Hiroyuki Yokoi	Experimental and Theoretical Studies of Carbon Nanomaterials	P	K	
1:30 ~ 1:45	Liqiang Xu	Rational designation and application of titanium containing nanomaterials as advanced electrodes for rechargeable batteries	P	S	
1:45 ~ 1:55	Sang-Yeon, Lee	Creation of amorphous two-dimensional metallic channel at Aluminum oxide and indium oxide interfaces	G	A	
1:55 ~ 2:05	Min-Chul, Oh	Development of novel multi-compaction technique for fabrication of hybrid P/M steels	G	A	
2:05 ~ 2:20	Break Time(15')				
2:20 ~ 2:35	Zhympargul Abdullaeva	3d Graphene-Ni foams by Solvothermal reaction for Electrochemical Supercapacitor Applications	P	K	Prof. Hiroyuki Yokoi(K)
2:35 ~ 2:50	Hak-Ki, Yu	He atom scattering from graphene surfaces: Quasi free-standing graphene on Cu surface	P	A	
2:50 ~ 3:05	Lin Lu	Shape Optimization and Customized Design in 3D Printing	P	S	
3:05 ~ 3:20	Shankara S. Kalanur	Fabrication of WO ₃ /BiVO ₄ /TiO ₂ photo anode for efficient solar water splitting	R	A	
3:20 ~ 3:30	Min-Seok, Oh	Formation of nano-lamellar structure in Ni-Al high-density energetic material by cryomilling	G	A	
3:30 ~ 3:40	Gab-Kyung, Seo	Sol-gel Preparation of p-type CuBi ₂ O ₄ Photocathode with a low turn-on potential for Solar Water-splitting	G	A	
3:40 ~ 3:50	Break Time(10')				
3:50 ~ 4:05	Di Sun	Beyond clusters: Large cluster and small bridge self-assembled supramolecular networks	P	S	Prof. Lin Lu(S)
4:05 ~ 4:20	Chunjiang Jia	Room Temperature CO Oxidation Catalyzed by Gold Single Atoms, Clusters and Particles on Nanoceria	P	S	
4:20 ~ 4:30	Yoshifumi Sumigawa	Graphene Oxide-Based Catalysis for Production of Advanced Biofuel Under Microwave Irradiation	G	K	
4:30 ~ 4:40	Weiwei Wang	Influence of Metal-Support Interaction on Redox Properties in Subnanometer Copper Oxide Clusters Anchored on Ceria	G	S	
4:40 ~ 4:50	Kyung-Chan, Min	Fabrication of nano-gap in thin silver film using sodium chloride film for Surface-enhanced Raman spectroscopy	G	A	
4:50 ~ 5:10	Discussion & Closing(20')				
5:10 ~ 5:40	Poster Session				
6:00 ~ 8:00	Banquet			Ibis Hotel Suwon	

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SessionⅢ. Civil and Environmental Engineering, Architecture and Building Engineering

Venue : Room 1005, Jonghap Hall

Time	Presenter	Topic of Presentation	P/G/R	Univ.	Chair
1:00 ~ 1:15	Nan Zou	Comprehensive Improvement of Multi-Model Transportation Operations in Populated Cities – Design, Control and More	P	S	Prof. Liping Li(S)
1:15 ~ 1:30	Kozo Onoue	Fatigue characteristics of steel-making slag concrete under compression in submerged condition	P	K	
1:30 ~ 1:45	Shaowei Wang	Heat Convection of non-Newtonian Fluids in Porous Medium	P	S	
1:45 ~ 1:55	Myung-Su, Yu	Re-evaluation of water supply capacity for multi-purpose reservoir	R	A	
1:55 ~ 2:05	Siyng An	Urban resident trip characteristics analysis based on taxi operation data	G	S	
2:05 ~ 2:15	Yusuke Nagai	Evaluation of UngROUT in Concrete by SIBIE Procedure	G	K	
2:15 ~ 2:30	Break Time(15')				
2:30 ~ 2:45	Kwon-Young, Choi	Development of zero-waste recycling process of organic waste	P	A	Prof. Kozo Onoue(K)
2:45 ~ 3:00	Liping Li	Monitoring and Early Warning Method of Disaster Precursor Induced by Serious Water Inrush in Deep Long Tunnel	P	S	
3:00 ~ 3:10	Kohei Kawashima	Visualization of Concrete Deterioration Process due to Delay Expansion after Fire Damage using X-ray CT	G	K	
3:10 ~ 3:20	Tong Zhang	Dynamic Traffic Flow Distribution Analysis Based on ALPR Data	G	S	
3:20 ~ 3:30	Yang-Woon, Kim	Experimental study on the longitudinal load transfer in a shallow tunnel depending on the deformation of tunnel face	G	A	
3:30 ~ 3:45	Sung-Wook, Kim	The Control of Digital Geometry using Parametric Algorithm	P	A	
3:45 ~ 4:00	Break Time(15')				
4:00 ~ 4:15	Yasunobu Onishi	Development Of Building Information Management System With Data Collecting Functions Based On IoT Technology	P	K	Prof. Hee-Sung, Cha(A)
4:15 ~ 4:30	Hee-Sung, Cha	Probability-based Cost Estimation Process Model on Go/No-Go Decision for Aged-Housing Remodeling Projects	P	A	
4:30 ~ 4:45	Masahiro Takata	Analyzing Traditional Architecture and Developing Educational Program - For Designing Environment Symbiosis City from Thermal Environment -	P	K	
4:45 ~ 4:55	Morimi Tashiro	Intellectual Productivity of University Students'Laboratory In terms of Behavioral Characteristics and Recognition	G	K	
4:55 ~ 5:10	Se-Jin, Jeon	Control of Heat of Hydration in Immersed Tunnel	P	A	
5:10 ~ 5:40	Poster Session				
6:00 ~ 8:00	Banquet			Ibis Hotel Suwon	

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