

PRESM2019 :: Poster Session 1

July 12	Presentation 13:45-14:45					Affixation time 13:00-13:45
Friday	Topic	Room	Paper No.	Abstract No.	Presenter	Title
1. Manufacturing Processes	Lobby(3F)	PP001	2019PRESM-224	Ui Seok Lee(Soongsil University)	Fabrication of Micro Pin Array of Graphite Carbon	
1. Manufacturing Processes	Lobby(3F)	PP002	2019PRESM-249	Chai Hwan Kim(Kyungnam University)	Prediction of Forming Forces in Incremental Sheet Forming with a Tool Dynamometer	
1. Manufacturing Processes	Lobby(3F)	PP003	2019PRESM-068	Dong Hyuk Kim(Korea Institute of Industrial Technology)	A Study on the Austenite Formation and Oxidation Resistance of AGI According to Aluminum Content	
1. Manufacturing Processes	Lobby(3F)	PP004	2019PRESM-242	Oyunchimeg Erdene-Ochir(University of Ulsan)	Study of Durability of Superhydrophobic Coating on Polypropylene	
1. Manufacturing Processes	Lobby(3F)	PP005	2019PRESM-071	Wook Jin Oh(Korea Maritime and Ocean University)	Effects of Substrate Preheating for Suppressing Crack Formation in Repairs Using Direct Energy Deposition (DED)	
1. Manufacturing Processes	Lobby(3F)	PP006	2019PRESM-182	Gwang Yong Shin(Korea Institute of Industrial Technology)	The Study of Soldering-Resistance Characteristics of IN718 Manufactured by Direct Energy Deposition Process in Aluminum Melt	
1. Manufacturing Processes	Lobby(3F)	PP007	2019PRESM-167	Hong Shen(Shanghai Jiao Tong University)	Picosecond Laser Direct Fabrication of Micro Channel on Fused Silica	
1. Manufacturing Processes	Lobby(3F)	PP008	2019PRESM-296	Jung-Hee Lee(Pukyong National University)	The Effects of Magnetic Abrasive Finishing on Slot and Optimization Using Grey Relational Analysis	
1. Manufacturing Processes	Lobby(3F)	PP009	2019PRESM-010	Jaewoong Kim(Korea Institute of Industrial Technology)	Study on Al Welding as Material of Cryogenic Fuel Propulsion Tank for Ship	
1. Manufacturing Processes	Lobby(3F)	PP010	2019PRESM-165	Jeongsik Lim(SHIN YOUNG Co., Ltd.)	Development of Hot Press Forming via Resistance Heating System to Improve Energy Efficiency by 80%	
1. Manufacturing Processes	Lobby(3F)	PP011	2019PRESM-322	Jongyoul Lee(Korea Electronics Technolgy Institute)	Bending Strength Dependency on Powder Particle Size in Binder Jetting Type Additive Manufacturing Process	
1. Manufacturing Processes	Lobby(3F)	PP012	2019PRESM-493	SEONGWON LEE(Korea Institute of Industrial Technology)	Development of Aluminium Thin Sheet Forming Process for Battery Cell Cover of Electric Vehicle	
1. Manufacturing Processes	Lobby(3F)	PP013	2019PRESM-008	Gia Ginelle Carandang(Kumoh National Institute of Technology)	Investigation on Natural Convection Effects of Inert Gas Flow in Glass Fiber Drawing of Optical Fiber Manufacturing System	
1. Manufacturing Processes	Lobby(3F)	PP014	2019PRESM-234	Kyung-Hee Park(Korea Institute of Industrial Technology)	Tool Fracture Mechanism in Wet Milling of Ti-6Al-4V Alloy and LN2 Cryogenic Machining	
1. Manufacturing Processes	Lobby(3F)	PP015	2019PRESM-274	Ohyung Kwon(Korea Institute of Industrial Technology)	Application of Convolutional Neural Network for Effective Process Monitoring in Selective Laser Melting	
1. Manufacturing Processes	Lobby(3F)	PP016	2019PRESM-513	Pierre-thomas DOUTRE(The Université Grenoble Alpes)	Ultrasonic Powder Removal System for Parts Built with Electron Beam Melting Technology	
1. Manufacturing Processes	Lobby(3F)	PP017	2019PRESM-490	Young Uk Gil(Pusan National University)	Ball-Burnishing and UNSM Treatment for Ultrahigh Wearproof Characteristics of SUS316	
1. Manufacturing Processes	Lobby(3F)	PP018	2019PRESM-453	Tae-Gon Kim(Korea Institute of Industrial Technology)	Tool Wear Analysis of CFRP Routing Tool Using Vision Based On-machine Measurement System	
1. Manufacturing Processes	Lobby(3F)	PP019	2019PRESM-568	Seung-Yub Baek(Induk University)	A Study on the Processing Characteristics Following the Focus Alignment for Improving the Machinability of High Power Density Electron Beam	
1. Manufacturing Processes	Lobby(3F)	PP020	2019PRESM-374	Yifan Tang(Chonbuk National University)	3D Hole Drilling by Pulsed Electrochemical Machining through Magnetic Position Control of Sphere Electrode	
1. Manufacturing Processes	Lobby(3F)	PP021	2019PRESM-279	Myeong Jin Ko(Korea Institute of Industrial Technology)	Development of IE4 Class 2.2kW Induction Motor	
1. Manufacturing Processes	Lobby(3F)	PP022	2019PRESM-587	Wai Sze Yip(The Hong Kong Polytechnic University)	An Experimental Investigation of Pre-Cryogenic Treated Titanium Alloys in Ultra-Precision Machining	
1. Manufacturing Processes	Lobby(3F)	PP023	2019PRESM-324	Sung Min Joo(Chosun University)	Numerical Analysis of Welding Residual Stress Evolution During CTOD Specimen Preparation by Reverses Bending	
1. Manufacturing Processes	Lobby(3F)	PP024	2019PRESM-236	Yonghan Yoon(Gyeongbuk Technopark)	A Study on Improvement of Heater Design by Heat Transfer Simulation of Press Tempering Mold	
1. Manufacturing Processes	Lobby(3F)	PP025	2019PRESM-144	Young Gon Kim(Korea Institute of Industrial Technology)	Evaluation of Tensile Shear Strength by Salt Spray Test on Dissimilar Welds of Aluminum Alloy and Galvannealed Steel	
1. Manufacturing Processes	Lobby(3F)	PP026	2019PRESM-518	Byoungjin Choi(Seoul National University of Science and Technology)	Determination of the Stress-Strain Relation in Plain Strain Tensile Testing Using High-Speed Photography and Infra-Red (IR) Thermography	
1. Manufacturing Processes	Lobby(3F)	PP027	2019PRESM-456	Chang-Seok Yun(Yonsei University)	Warpage and Shrinkage of PA6/GF Composites by Microcellular Foam Injection Molding Process	
1. Manufacturing Processes	Lobby(3F)	PP028	2019PRESM-252	Channyeong Yun(Korea Electronics-Machinery Convergence Technology Institute)	A Study on in-Mold Temperature Measurement Using Thermocouples Array	
1. Manufacturing Processes	Lobby(3F)	PP029	2019PRESM-470	Donghwan Lee(Pusan National University)	Effect of Pad Profile Deformation on CMP According to Diamond Arrangement of Conditioning Disk	
1. Manufacturing Processes	Lobby(3F)	PP030	2019PRESM-563	Geon Cheol Park(Yeungnam University)	Evaluation of Tool Wear During Turning for Inconel 713C Using TiAlN Coated Insert Tool	
1. Manufacturing Processes	Lobby(3F)	PP031	2019PRESM-159	Hye-Won Han(Dong A University)	Optimal Design Considering Rib Thickness of Supported Structure for Inner Race Track Grinding Machine	
1. Manufacturing Processes	Lobby(3F)	PP032	2019PRESM-533	Hyunho Jo(Yonsei University)	Electrochemical Oxidation Assisted Machining Using Conductive Tool	
1. Manufacturing Processes	Lobby(3F)	PP033	2019PRESM-208	In Young Woo(Seoul National University of Science and Technology)	Cross-Section Morphology and Surface Roughness of Material Extrusion Type 3D Printing Manufactured Articles	
1. Manufacturing Processes	Lobby(3F)	PP034	2019PRESM-561	Jeong-hun Park(Pusan National University)	Welding Temperature Characteristic of Dissimilar Friction Stir Welding of Cast Aluminum and High Strength Steel under Lab Joint Method	
1. Manufacturing Processes	Lobby(3F)	PP035	2019PRESM-056	Jongyoun Son(Chonnam National University)	Investigation into High Temperature Tensile Property of Heat-Resisting Alloy Deposited by Laser Melting Process	
1. Manufacturing Processes	Lobby(3F)	PP036	2019PRESM-179	Joo Seong Sohn(Yonsei University)	Mechanical and Thermal Properties of PA6/GF Composites by Microcellular Foam Injection Molding Process	
1. Manufacturing Processes	Lobby(3F)	PP037	2019PRESM-464	Jung Sub Kim(Sungkyunkwan University)	Experimental Characterization of Inconel Parts Fabricated by Directed Energy Deposition (DED) Process	
1. Manufacturing Processes	Lobby(3F)	PP038	2019PRESM-418	Kihun Lee(Pusan National University)	Control of Temperature Profile and Improvement of Polishing Uniformity by Controlling the Flow Rate of Multiple Spray Nozzles	
1. Manufacturing Processes	Lobby(3F)	PP039	2019PRESM-298	Kun Zhu(Yonsei University)	A Study on Shape Recovery Ratio of PET Shape Memory Polymer by Microcellular Batch Foaming Process with Various Gases	
1. Manufacturing Processes	Lobby(3F)	PP040	2019PRESM-061	Kwang Joon Kim(Korea University)	Abrasive Flow Machining of Burr Edge Formed by Two Holes Intersecting at Right Angle with Offset	
1. Manufacturing Processes	Lobby(3F)	PP041	2019PRESM-041	KYU SONG(Korea Electronics-Machinery Convergence Technology Institute)	A Study on Manufacturing Process of Molded Multi-Layer Electronic Circuit by Screen Printing Method	
1. Manufacturing Processes	Lobby(3F)	PP042	2019PRESM-449	Minjong Yuh(Pusan National University)	Effects of Abrasive Size and Type on ABF Planarization for Advanced Packaging	
1. Manufacturing Processes	Lobby(3F)	PP043	2019PRESM-458	Mouhamadou Mansour MBOW(Univ. Grenoble Alpes)	Thermal Analysis of Desktop FDM Liquefiers	
1. Manufacturing Processes	Lobby(3F)	PP044	2019PRESM-390	Mounarik Mondal(University of Ulsan)	Microstructural Evolution and Mechanical Properties of Friction Stir Butt Welded Nickel Superalloy 825	
1. Manufacturing Processes	Lobby(3F)	PP045	2019PRESM-149	Seonghee Ryu(Korea Polytechnic University)	Development of Large SLA Printer with Floating Resin to Save Material Cost	
1. Manufacturing Processes	Lobby(3F)	PP046	2019PRESM-337	SEONGWON LEE(Korea Institute of Industrial Technology)	Effect of Forming Temperatures on Formation of Alpha-Case and Formability of Ti-6Al-4V Alloy Sheet	

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1. Manufacturing Processes	Lobby(3F)	PP047	2019PRESM-354	Seung Weon Yang(Korea Maritime and Ocean University)	Effects of Heat Treatments on the Mechanical Properties of Stainless Steel 630 Fabricated by Laser Melting Deposition	
1. Manufacturing Processes	Lobby(3F)	PP048	2019PRESM-421	Somin Shin(Pusan National University)	Study on the Effect of Pattern Size and Pad Asperity Size Distribution in ILD CMP	
1. Manufacturing Processes	Lobby(3F)	PP049	2019PRESM-502	JUNGYU SON(Tongmyong University)	Fundamental Study on CMP Conditioning System with Varying Contact Area	
1. Manufacturing Processes	Lobby(3F)	PP050	2019PRESM-330	Sung Hawk Park(Korea Electronics Technology Institute)	Binder Jetting Additive Manufacturing by Integrated Extractor Electrode Electrohydrodynamic Printing	
1. Manufacturing Processes	Lobby(3F)	PP051	2019PRESM-612	UKSU KIM(Chosun University)	Electrochemical machining using direction controllable tool electrode by external magnetic force	
1. Manufacturing Processes	Lobby(3F)	PP052	2019PRESM-060	Younggwan Kim(Graduate school, Korea University)	Removal of Milling Burrs by Abrasive Flow Machining	
1. Manufacturing Processes	Lobby(3F)	PP053	2019PRESM-265	Youngjae Ryu(Yonsei University)	Optimization of Injection Molding Process to Minimize Shrinkage of Microcellular-Foamed PA6/GF	
1. Manufacturing Processes	Lobby(3F)	PP054	2019PRESM-370	Munjin Kang (Korea Institute of Industrial Technology)	Weld Quality Estimation of Resistance Spot Welding of 980MPa grade AHSS Using Convolution Neural Network	
1. Manufacturing Processes	Lobby(3F)	PP055	2019PRESM-040	Bo-Ram Lee(Mokpo National University)	A New Heat Source Model to Simulate Multi-Pass Welding Process	
1. Manufacturing Processes	Lobby(3F)	PP056	2019PRESM-028	Ki-Hoon Shin(Seoul National University of Science and Technol	Material Property Estimation of Functionally Graded H13/Cu Structures fabricated by DMT	
1. Manufacturing Processes	Lobby(3F)	PP057	2019PRESM-613	SeongHwan Park(Pusan National University)	Evaluation of Backing Plate for Micro-Friction Stir Welding with Welding Temperature	
1. Manufacturing Processes	Lobby(3F)	PP058	2019PRESM-005	Min Sook Yu(TOPnC Co., Ltd.,)	Manufacturing Equipment and Reliability Evaluation of Lithium Polymer Battery Pouch for Electric Vehicle	
1. Manufacturing Processes	Lobby(3F)	PP059	2019PRESM-624	Van Quy Hoang(Haiphong University)	A Study on Partitioning Freeform Surface and Tool Selection Method for 3 axes CNC Machining	
1. Manufacturing Processes	Lobby(3F)	PP060	2019PRESM-625	Thi-Bich Mac(Hanoi University of Science and Technology)	Study on Cutting Force and Chip Shrinkage Coefficient during Thermal – assisted Machining by Induction Heating of SKD11 Steel	
1. Manufacturing Processes	Lobby(3F)	PP061	2019PRESM-626	Huu-Phan Nguyen(Hanoi University of Industry)	Multi-Criteria Decision Making using Preferential Selection Index in titanium based Die-Sinking PMEDM	
2. Machine Tools & Systems	Lobby(3F)	PP062	2019PRESM-260	Anmok JEONG(Korea Institute of Industrial Technology)	Hole Quality Analysis in Drilling of CFRP/Al Stack Using Longitudinal-Torsional Ultrasonic Assisted Drilling	
2. Machine Tools & Systems	Lobby(3F)	PP063	2019PRESM-336	Chang Nho Cho(Korea Electrotechnology Research Institute)	Recurrent Neural Network-based Machine Fault Detection Algorithm	
2. Machine Tools & Systems	Lobby(3F)	PP064	2019PRESM-360	Chang-hyuk Lee(Korea Electrotechnology Research Institute)	Design of Four-Legged Portable Machine Tool with Five-Axis Machining	
2. Machine Tools & Systems	Lobby(3F)	PP065	2019PRESM-264	Kyeong Tae Jeong(Hanbat National University)	Development of Two-Sided Multi-Point Press Technology for FCP Shape Implementation	
2. Machine Tools & Systems	Lobby(3F)	PP066	2019PRESM-318	Dongkyoung Lee(Kongju National University)	Development of a Rectifier System for Corrosion Protection and Anti-Corrosion	
2. Machine Tools & Systems	Lobby(3F)	PP067	2019PRESM-300	Jae Yong Lee(Korea Textile Machinery Convergece Research Institute)	Study on Fine Multi-Stage Vacuum Control Technology for Die-Casting of Complicated Shape Parts	
2. Machine Tools & Systems	Lobby(3F)	PP068	2019PRESM-581	Jonguk AN(Korea Institute of Industrial Technology)	Ultrasonic Cleaning Effect According to Each Shape of Emission Surfaces in Water	
2. Machine Tools & Systems	Lobby(3F)	PP069	2019PRESM-315	Chul Kim(Korea Institute of Industrial Technology)	Development of IoT Node based Wireless Sensor Network System in Textile Industry	
2. Machine Tools & Systems	Lobby(3F)	PP070	2019PRESM-593	Yein Kwak(Yeungnam University)	A Research on the Surface Roughness of Inconel 713C Grade Materials	
2. Machine Tools & Systems	Lobby(3F)	PP071	2019PRESM-553	Young-Jae Choi(Korea Institute of Industrial Technology)	A Study on Configuration of Monitoring and Analysis System for Machining Optimization	
2. Machine Tools & Systems	Lobby(3F)	PP072	2019PRESM-305	Byoung-Wook Jo(Hanbat National University)	A Study on the Optimization of Induction Heater For Electric Vehicle	
2. Machine Tools & Systems	Lobby(3F)	PP073	2019PRESM-532	Chan-Young Lee(Yonsei University)	Corner Error Limit Setting Method for Kinematic Curve Based Interpolator	
2. Machine Tools & Systems	Lobby(3F)	PP074	2019PRESM-570	Cheon-Ho Song(Hanbat National University)	A Study on Slot Leakage Inductance Considered Saturation of WFSM for Electric Vehicle	
2. Machine Tools & Systems	Lobby(3F)	PP075	2019PRESM-319	Hong Sik Lim(Hanbat National University)	Shift Shock of Interior Permanent Magnet Synchronous Motor with Multi-step Electromagnetic Transmission	
2. Machine Tools & Systems	Lobby(3F)	PP076	2019PRESM-361	Hoon-Hee LEE(Kyungpook National University)	Development of a Dual Servo Stage with a 5-DOF Measurement System and a 6-DOF Fine Positioning System for Motion Error Compensation	
2. Machine Tools & Systems	Lobby(3F)	PP077	2019PRESM-334	Ji Wook Kim(Korea Institute of Industrial Technology)	Fault Diagnosis and Life Prediction of Machining Center Using Raw Signal of Noise and Vibration	
2. Machine Tools & Systems	Lobby(3F)	PP078	2019PRESM-571	Jiwoong Lee(Sungkyunkwan University)	A Study on Spot-Welding Quality Prediction Using Current and Voltage Signals for Various Welding Materials	
2. Machine Tools & Systems	Lobby(3F)	PP079	2019PRESM-535	Jong-Hyeok Yu(SoonChunHyang University)	Development of the Operating Program for Heterogeneous Controller Compatibility of Display Equipment	
2. Machine Tools & Systems	Lobby(3F)	PP080	2019PRESM-371	Minseok Yang(Korea Institute of Industrial Technology)	Analysis of Vibration Characteristics and Shape Optimization of Dental Prosthetic Machine	
2. Machine Tools & Systems	Lobby(3F)	PP081	2019PRESM-495	Myung Yeun Park(Kookmin University)	Modeling Methodology for Dynamic Analysis of 5-Axis Precision Stage	
2. Machine Tools & Systems	Lobby(3F)	PP082	2019PRESM-529	Seong Hyeon Kim(Yonsei University)	Structural Rigidity of Robot Machining Systems Depending on Machining Processes	
2. Machine Tools & Systems	Lobby(3F)	PP083	2019PRESM-485	Hyein Kim(Korea Institute of Industrial Technology)	The Prediction Model of Time Series Cutting Forces in End Milling Based on the Machine Learning Algorithm	
2. Machine Tools & Systems	Lobby(3F)	PP084	2019PRESM-605	Bong Gu Lee(Yeungnam University College)	A Study on Development of Ultrasonic Slicer System for Food Cutting	
2. Machine Tools & Systems	Lobby(3F)	PP085	2019PRESM-623	The Thanh Luyen(Hungyen University of Technology and Education)	An Application/Comparison Study on Graphical Method of Forming Limit Curve Estimation for DP590 Steel Sheets	
3. Automation, Measurement & Control	Lobby(3F)	PP086	2019PRESM-235	Daesun Hong(Changwon National University)	Analysis on the Forward and Inverse Kinematics of a Four-Axis Transfer Robot with Parallelogram Mechanism	
3. Automation, Measurement & Control	Lobby(3F)	PP087	2019PRESM-209	Eun Ho Kim(Korea Institute of Industrial Technology)	Development of Noise Robust Sensor Using IR Proximity for Measuring Piano Key Movement	
3. Automation, Measurement & Control	Lobby(3F)	PP088	2019PRESM-054	Hyo-chan Kwon(Graduate school, Korea University)	A Study of Robot Hand with Similar Movements to Human Hand	
3. Automation, Measurement & Control	Lobby(3F)	PP089	2019PRESM-577	Jayil Jeong(Kookmin University)	Optimization Automation for Predicting R&H Performance of CTBA Vehicles	
3. Automation, Measurement & Control	Lobby(3F)	PP090	2019PRESM-113	Rendi Kurniawan(Yeungnam University)	Static Water Contact Angle Measurement on Rhombohedral Pattern Fabricated Using Three-Dimensional Elliptical Vibration Texturing (3D-EVT)	
3. Automation, Measurement & Control	Lobby(3F)	PP091	2019PRESM-078	Kwonse Kim(Mississippi State University)	Effect of Ultrasonic Energy and Transmission Coefficient in Air-Propane Gas Space	
3. Automation, Measurement & Control	Lobby(3F)	PP092	2019PRESM-016	Seong Ik Han(Dongguk University)	Positioning Error Constraining Super-Twisting Control for the Ball-Screw Driven Precise Motion Device with a Nonlinear Disturbance Observer	

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3. Automation, Measurement & Control	Lobby(3F)	PP093	2019PRESM-343	Seung Jin Chang(Hanbat National University)	Modeling of the Adaptive Threshold Curve Considering the Wave Attenuation	
3. Automation, Measurement & Control	Lobby(3F)	PP094	2019PRESM-197	Seung-Hun Kim(Korea Electronics Technology Institute)	Performance Evaluation Method for Human Detection for Disaster Robot	
3. Automation, Measurement & Control	Lobby(3F)	PP095	2019PRESM-409	Daegwon Koh(Gwangju Institute of Science and Technology)	Inspection of Machined Metal Surfaces using Image processing	
3. Automation, Measurement & Control	Lobby(3F)	PP096	2019PRESM-419	Won-Shik Chu(Gyeongsang National University)	Development of Multiple Actuator Driven Fin for Undulatory Locomotion	
3. Automation, Measurement & Control	Lobby(3F)	PP097	2019PRESM-228	Yeonho Lee(Korea Institute of Industrial Technology)	Simple Approach of Kinematical Mapping Using Sphere Least Squares On a Disaster-responding Special Purpose Equipment with Master-slave System	
3. Automation, Measurement & Control	Lobby(3F)	PP098	2019PRESM-227	Youngtaek Cha(Korea Institute of Industrial Technology)	Development of Hardware-In-the-Loop Simulator for a Telescopic Boom of All-terrain Crane Using Fuzzy-PID	
3. Automation, Measurement & Control	Lobby(3F)	PP099	2019PRESM-353	Youngshik Kim(Hanbat National University)	A Finger-like Mechanism Actuated by Torsional SMA Actuators and a SMA Spring	
3. Automation, Measurement & Control	Lobby(3F)	PP100	2019PRESM-015	Young-Sik Ghim(Korea Research Institute of Standards and Science)	Compensation for Non-Linearity of Digital Devices in Phase-Shifting Deflectometry	
3. Automation, Measurement & Control	Lobby(3F)	PP101	2019PRESM-204	Byeong hee Tae(Kangwon National University)	Implementation of Tool Condition Wireless Monitoring System in Milling Process Using MEMS Accelerometer	
3. Automation, Measurement & Control	Lobby(3F)	PP102	2019PRESM-328	Byongsung Kim(Korea University)	Improvement of Cornering Characteristic Using 4 In-Wheel Motor	
3. Automation, Measurement & Control	Lobby(3F)	PP103	2019PRESM-207	Dong Wook Kim(Kangwon National University)	A Study on Bearing Fault Detection Using Convolution Neural Network	
3. Automation, Measurement & Control	Lobby(3F)	PP104	2019PRESM-042	Dongyun Kim(Seoul National University of Science and Technology)	The Prediction and Control of the Grasp Point for a Multi-Jointed Robot's Gripper Using FCN of Deep Learning with Multi-Image Input.	
3. Automation, Measurement & Control	Lobby(3F)	PP105	2019PRESM-195	Hye-Yeon Ryu(Pukyong National University)	A Study on the Speed Control of Collaborative Robot for Collision Avoidance and Productivity	
3. Automation, Measurement & Control	Lobby(3F)	PP106	2019PRESM-196	Sangjoon Kim(Korea Advanced Institute of Science and Technology)	A Fully Portable Pneumatic Ankle Foot Orthosis (AFO) for Drop-foot Correction	
3. Automation, Measurement & Control	Lobby(3F)	PP107	2019PRESM-345	Jung Hwan Lim(Konkuk University)	A Novel Method to Assess the Synergy of Stroke Patients Based on a Gate Cycle	
3. Automation, Measurement & Control	Lobby(3F)	PP108	2019PRESM-193	Kimin Jeong(Pukyong National University)	Implementation of Gait Pattern Monitoring System Using WiFi-Embedded Smart Shoes	
3. Automation, Measurement & Control	Lobby(3F)	PP109	2019PRESM-066	Kyuh Sim(Seoul National University of Science and Technology (SeoulTech))	Comparison of Conventional Image Processing Method and Deep Learning Method in Driving Autonomous Mobile Robot	
3. Automation, Measurement & Control	Lobby(3F)	PP110	2019PRESM-382	Min Ji Kim(Dong A University)	Vehicle Wheel Alignment Using Laser Module	
3. Automation, Measurement & Control	Lobby(3F)	PP111	2019PRESM-198	Kyungseo Park(Korea Advanced Institute of Science and Technology)	Adaptive Measurement Strategy for Electrical Impedance Tomography (EIT)-based Tactile Sensor with Grid-like Internal Electrodes	
3. Automation, Measurement & Control	Lobby(3F)	PP112	2019PRESM-572	Sang-Woo Baek(Hanyang University)	Measurement of 5-DOF Spindle Error Motion Using Fourier Model Based Multi-Probe Error Separation	
3. Automation, Measurement & Control	Lobby(3F)	PP113	2019PRESM-218	Seulki Kyeong(Korea Advanced Institute of Science and Technology)	Control of a Lower Limb Exoskeleton Based on Torque Estimation Using sEMG and Interaction Force Sensor	
3. Automation, Measurement & Control	Lobby(3F)	PP114	2019PRESM-420	SUYOUNG CHOI(Korea University)	The Development of U-Turn Path Planning of Autonomous Vehicle Using Clothoid Curve	
3. Automation, Measurement & Control	Lobby(3F)	PP115	2019PRESM-423	Bao Tri Diep(Industrial University of Ho Chi Minh City)	Experimental Investigation of Mechanical-Hydrostatic Continuously Variable Transmission	
3. Automation, Measurement & Control	Lobby(3F)	PP116	2019PRESM-541	Tiendung Vu(Inje University)	Relative Stabilization of Dual-Comb with an External Rapid Tuning Acousto-Optics Modulator	
3. Automation, Measurement & Control	Lobby(3F)	PP117	2019PRESM-272	Tuan Nguyen Van(Phenikaa University, Hanoi University of Science and Technology)	Studying the Resistance of the Autonomous Underwater Vehicle's Hull Having Flexible Solar Wing using Computational Fluid Dynamics	
3. Automation, Measurement & Control	Lobby(3F)	PP118	2019PRESM-018	Viet Luong Quoc(Korea Aerospace University)	A Semi Active Control for a VTOL Aircraft Landing Gear with Magnetorheological Damper	
3. Automation, Measurement & Control	Lobby(3F)	PP119	2019PRESM-203	YOOSU KANG(Kangwon National University)	Prediction of Drill Breakage Using Infrared Sensor	
3. Automation, Measurement & Control	Lobby(3F)	PP120	2019PRESM-344	Yunjoo Kim(Korea Advanced Institute of Science and Technology)	Autonomous Grasping Orientation Control Using a Wrist-mounted Camera for a Real-time Tele-manipulation System	
3. Automation, Measurement & Control	Lobby(3F)	PP121	2019PRESM-269	Loc Phan(Vietnamese German University)	Automation System Design for Plastic Recycling Machine	
3. Automation, Measurement & Control	Lobby(3F)	PP122	2019PRESM-622	Van-Bien Bui(Hai Phong University, Hanoi University of Technology and Science)	Improving the Depth Accuracy and Assessment of Microsoft Kinect v2 Towards a Usage for Mechanical Part Modelling	
4. Materials & Design	Lobby(3F)	PP123	2019PRESM-314	Mi Yeon Shin(Chonbuk National University)	Development of a Metal-Hydride Actuation System Controlling by Heating-Cooling Cycle for a Rehabilitation System	
4. Materials & Design	Lobby(3F)	PP124	2019PRESM-468	Chang-Wan LEE(Seoul National University of Science and Technology (SeoulTech))	Study on the Effect of Penetrator Shape on Penetration Using Finite Cavity Pressure Method	
4. Materials & Design	Lobby(3F)	PP125	2019PRESM-550	Doo Yeoun Cho(Mokpo National University)	Development of Paint Estimating Software for the Pipe Support of Ship and Offshore Structures Using 3D CAD Models	
4. Materials & Design	Lobby(3F)	PP126	2019PRESM-338	GyuHyun Bae(Korea Textile Machinery Convergence Research Institute)	A Study on the Analysis of Elastic Rubber Mount for Ship Electronic Equipment System	
4. Materials & Design	Lobby(3F)	PP127	2019PRESM-133	Hyunseok Song(Korea Automotive Technology Institute)	A Study on Remanufacturing of Cylinder Block and Head Using Hot Spray Technology	
4. Materials & Design	Lobby(3F)	PP128	2019PRESM-429	Hyun-Soo Kim(Korea Institute of Machinery & Materials)	A Design of Electromagnetic Chuck Using a New Type Yoke for Switching the Magnetic Circuit	
4. Materials & Design	Lobby(3F)	PP129	2019PRESM-166	Jaedong Cho(SHIN YOUNG Co., Ltd.)	Development of Conductive Heating Technology for Hot Stamping Process	
4. Materials & Design	Lobby(3F)	PP130	2019PRESM-573	Jonghun Yoon(Hanyang University)	3D Printing Auxetic Structures for Enhancing Crash Performances	
4. Materials & Design	Lobby(3F)	PP131	2019PRESM-270	Kunwoo Kim(Korea Institute of Industrial Technology)	Non-Dimensional Equation of Motion with Slope Discontinuity in ANCF	
4. Materials & Design	Lobby(3F)	PP132	2019PRESM-045	Kyehan Rhee(Myongji University)	Measurement of Wall Motion of a Stenotic Channel Simulating Atherosclerotic Artery Using a Sonomicrometry	
4. Materials & Design	Lobby(3F)	PP133	2019PRESM-435	Nga Pham Thi Hong(University of Technology and Education Ho Chi Minh City)	Effect of CaCO3 on the Mechanical Properties of Poly(Ethylene Terephthalate)/ Polypropylene Blends	
4. Materials & Design	Lobby(3F)	PP134	2019PRESM-340	KWI YOUNG PARK(Korea University)	Development of CCTV Temperature Maintenance System Using Thermo-syphon Principle	
Organized session	Lobby(2F)	OS086	2019PRESM-312	Chan Kyu Kim(Changwon National University)	Comparative Analysis of Laser Cladding Using White Metal	
Precision Machinery and related Materials	Lobby(2F)	OS087	2019PRESM-478	Chanjin Kim(Korea Maritime and Ocean University)	Effects of Processing Path on Mechanical Properties in Ultrasonic Nanocrystal Surface Modification Technology	
	Lobby(2F)	OS088	2019PRESM-454	Do Hyeog Kim(Changwon National University)	Applications of Nano Imprint Process for Smart Window Panel	
	Lobby(2F)	OS089	2019PRESM-496	Do Yeong Mun(Changwon National University)	Application of Contact Arc Metal Cutting Process for Underwater Manufacturing	

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July 12	Presentation 13:45-14:45					Affixation time 13:00-13:45
Friday	Topic	Room	Paper No.	Abstract No.	Presenter	Title
		Lobby(2F)	OS090	2019PRESM-116	HO-IN JEONG(Changwon National University)	A Study on the Structural Analysis of the Special Chuck for Ball Screw Nut Grinding Machining
		Lobby(2F)	OS091	2019PRESM-212	KANGWOOK KIM(Changwon National University)	A Basic Study on the Thermal Analysis of a Spindle of Hybrid Machine Tool Based on 3D Printing
		Lobby(2F)	OS092	2019PRESM-213	Seong-Gyu Kim(Changwon National University)	A Basic Study on the Thermal Deformation of a Plasma Torch for Plasma Assisted Machining
		Lobby(2F)	OS093	2019PRESM-451	Su Hyun Choi(Changwon National University)	Comparison of Oleophobicity between Re-entrant and Pillar Structure
		Lobby(2F)	OS094	2019PRESM-494	Wonpyo Kim(Changwon National University)	Numerical Studies of Fluidic Flow and Thermal Response of 3D Lattice Structures for Efficient Catalytic Substrates
		Lobby(2F)	OS095	2019PRESM-486	Woo Young Kim(Changwon National University)	Shape Morphing by Partial Curing with Composition Control of Dye and HDDA
		Lobby(2F)	OS096	2019PRESM-102	Yea Jin Yang(Changwon National University)	A Basic Study on the Copper Pipe Forming Analysis According to Center Position of a Joint Mandrel
Thursday	July 11 / Room 3 17:15	Room 3	OS069	2019PRESM-301	Sangwoong Lee(Kumoh National Institute of Technology)	An IMU Sensor Based Leveling Platform for the Stable Takeoff and Landing of the UAV
	Organized session	Room 3	OS070	2019PRESM-594	Dongjoo Kim(Kumoh National Institute of Technology)	Simulation of Particle Deposition in Circular Cylinder Wake Considering Particle Interception and Sticking Probability
	System Engineering using	Room 3	OS071	2019PRESM-070	Kyoung Hoon Kim(Kumoh National Institute of Technology)	Increased Power Production with Organic Flash Cycle Driven by Renewable Energy
	Computational Mechanics	Room 3	OS072	2019PRESM-145	Seongmin Chang(Kumoh National Institute of Technology)	A Study on Dynamic Reduction Method for Strongly Coupled Fluid Structure Interaction
		Room 3	OS073	2019PRESM-294	Seong-Wook Hong(Kumoh National Institute of Technology)	A Study on the Analytical Prediction of Sliding Friction Torque in Angular Contact Ball Bearings
		Room 3	OS074	2019PRESM-188	Sihyuk Choi(Kumoh National Institute of Technology)	Highly Active Layered Perovskite Cathode on Proton Conducting Solid Oxide Fuel Cells
		Room 3	OS075	2019PRESM-216	Wonyoung Jeon(Kumoh National Institute of Technology)	A Study on the Optimization of the Number of Coupling Bolts in Rock Crusher Using FEM
		Room 3	OS076	2019PRESM-321	Daun Lee(Kumoh National Institute of Technology)	Robot Arm Manipulation Using Wearable Motion Recognition Device
		Room 3	OS077	2019PRESM-408	Ho Myoung Jang(Kumoh National Institute of Technology)	Design of Electromyogram Signal-Based Prosthetic Arm
		Room 3	OS078	2019PRESM-201	Jinsu Nam(Kumoh National Institute of Technology)	Computational Analysis Based on the Discrete Element Method for the Dynamic Behavior of Soft Particles According to the Rotating Speed and the Amount of Particle in Rotating Horizontal Drum
		Room 3	OS079	2019PRESM-302	Seolha Kim(Kumoh National Institute of Technology)	Optimization of a Mist Spraying Machine Operation for the Effective Dust Suppression in Construction Sites
		Room 3	OS080	2019PRESM-407	Seoung Pil Jeoung(Kumoh National Institute of Technology)	Comparison of Sensor Characteristics for Walking Intent Recognition
		Room 3	OS081	2019PRESM-406	Sung Woo Yeom(Kumoh National Institute of Technology)	Modeling for Prediction of Shear Modulus Change of Magnetorheological Elastomer

Final Notice

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July 12		Presentation 16:30-17:30				Affixation time 15:30-16:30
Friday	Topic	Room	Paper No.	Abstract No.	Presenter	Title
	4. Materials & Design	Lobby(3F)	PP135	2019PRESM-190	Sang-Jin Lee(Mokpo National University)	Characteristics of Geopolymer-Polyurethane Sponge Composite
	4. Materials & Design	Lobby(3F)	PP136	2019PRESM-117	Sangmin Lee(Dongueui University)	Analysis of Wettability and Surface Free Energy of Engine Oils
	4. Materials & Design	Lobby(3F)	PP137	2019PRESM-611	Seong Jin Cho(Korea Textile Machinery Convergece Research Institute)	Optimum Sound Absorption Design of Composite Structure Nonwoven for Fender-liner in Vehicle Exterior Parts
	4. Materials & Design	Lobby(3F)	PP138	2019PRESM-261	Seunghoon Cha(Gyeongbuk Technopark)	Design Optimizaion of Rear Floor Assembly with CFRP to Meet Stiffness and Strength
	4. Materials & Design	Lobby(3F)	PP139	2019PRESM-136	Si Tae WON(Seoul National University of Science and Technology)	Light-Weight Design of Automotive Shock Tower Mounting Bracket by Using Computer Aided Engineering
	4. Materials & Design	Lobby(3F)	PP140	2019PRESM-564	Sung Hyuk Park(Kyungpook National University)	Enhancement of Mechanical Properties and Extrudability of Magnesium Alloys Using Artificial Cooling System
	4. Materials & Design	Lobby(3F)	PP141	2019PRESM-607	Kim Dong Seon(Gyeongsang National University)	The Gearbox Design for High Precision Thread Whirling Head
	4. Materials & Design	Lobby(3F)	PP142	2019PRESM-358	Yo-Han Yoo(Agency for Defense Development)	Determination of Specimen Shape for Accurate Measurement of Tensile Properties Using SHTB Apparatus
	4. Materials & Design	Lobby(3F)	PP143	2019PRESM-033	Yousung Kang(Ajou University)	Pressure Deviation Analysis of Pressurized Roller System for Superhydrophobic Surface Fabrication
	4. Materials & Design	Lobby(3F)	PP144	2019PRESM-175	Beom Seop Gwak(Gyeongsang National University)	A Study on Design of the Reduction for Small Electric Vehicle Due to the Change of Gear Module
	4. Materials & Design	Lobby(3F)	PP145	2019PRESM-120	Dahae Yu(Hansung University)	Robust Design of Flame for Battery Exchange Typed Electric Motorcycle
	4. Materials & Design	Lobby(3F)	PP146	2019PRESM-058	DOO HYUN CHO(Korea University)	True Stress-Strain Curve of Pure Silver Over a Large Strain Range
	4. Materials & Design	Lobby(3F)	PP147	2019PRESM-590	EUNAH JEONG(Dongueui University)	Structural Stability of High-temperature Butterfly Valve Using Interaction Analysis
	4. Materials & Design	Lobby(3F)	PP148	2019PRESM-258	Hui-seong Hong(Dongueui University)	Pressure Assisted Solid State Sintering Process of Tungsten Materials and Their Characterization
	4. Materials & Design	Lobby(3F)	PP149	2019PRESM-155	JeI Gyeong Jeon(Inha University)	Highly Sensitive and Flexible Ionic Thermocouple Array Based on Ionic Seebeck Effect
	4. Materials & Design	Lobby(3F)	PP150	2019PRESM-181	Jiheon Kang(Korea Institute of Industrial Technology)	Structural Analysis of Hat-Type Structures with Different Composites for Lightweight Materials
	4. Materials & Design	Lobby(3F)	PP151	2019PRESM-095	Ju Yeon Park(Chonnam National University)	3D Printed Fluidic Channel for Rapid and Uniform Cooling of Injection Molding
	4. Materials & Design	Lobby(3F)	PP152	2019PRESM-051	Jung-Hoon Kim(Graduate school, Korea University)	Energy Absorption of Rectangular Tubes with Perforations in Dynamic Axial Crush
	4. Materials & Design	Lobby(3F)	PP153	2019PRESM-105	JUNYOUNG SEO(Tongmyong University)	Research on Result of Sapphire CMP After Lap-Grinding Process
	4. Materials & Design	Lobby(3F)	PP154	2019PRESM-245	Ngoc-Phat Huynh(University of Ulsan)	Effect of Counter Material on Tribological Characteristics of Cobalt-Chromium-Molybdenum Alloy
	4. Materials & Design	Lobby(3F)	PP155	2019PRESM-326	Ning Wang(Hiroshima University)	Fabrication of In-Site TiC Particles Dispersed Ti Matrix Composite
	4. Materials & Design	Lobby(3F)	PP156	2019PRESM-081	Seon-Ung Choi(Graduate school, Korea University)	A Study on Indented Crash Box for Enhanced Energy Absorption or Weight Reduction for Automobiles
	4. Materials & Design	Lobby(3F)	PP157	2019PRESM-316	Seon-Ung Choi(Graduate school, Korea University)	A Study on the Weight Reduction of Floor Panel for Automobile Bodies
	4. Materials & Design	Lobby(3F)	PP158	2019PRESM-323	sungsoo kim(Hanbat National University)	Buckling Strength on Duplex Stainless Steel Tubular Column under Axial Compression
	4. Materials & Design	Lobby(3F)	PP159	2019PRESM-501	Tae Young Kim(Kyungpook National University)	Effect of Metal-Support Interaction on Catalytic Performance of Co-Based Catalysts for Production of High-Calorific Synthetic Natural Gas
	4. Materials & Design	Lobby(3F)	PP160	2019PRESM-137	Tae Han PARK(Seoul National University of Science and Technology)	Design of Foot Part Damping Structure for the Riding Comfort of Lightweight Electric-Kickboards
	4. Materials & Design	Lobby(3F)	PP161	2019PRESM-247	Tae-Hyeong Kim(Yonsei University)	Efficiency Analysis of Mechanical Component Friction
	4. Materials & Design	Lobby(3F)	PP162	2019PRESM-104	TAEKYOUNG KIM(Tongmyong University)	Effect of Hydrogen Peroxide on Machining Results in Abrasive Fluidized CMP
	4. Materials & Design	Lobby(3F)	PP163	2019PRESM-424	Ngoc Yen Phuong Vo(Ho Chi Minh City University of Technology and Education)	Static Analysis of Low Frequency Isolation Model Using Pneumatic Cylinder with Auxiliary Chamber
	4. Materials & Design	Lobby(3F)	PP164	2019PRESM-268	The Hung Dinh(University of Ulsan)	Study of Fabrication Process for Superhydrophobic Glass Surface
	4. Materials & Design	Lobby(3F)	PP165	2019PRESM-259	YouJin Min(Yonsei University)	Characteristics of the Tribological Properties of Carbon-based Films
	4. Materials & Design	Lobby(3F)	PP166	2019PRESM-616	Tae-Jong Yun(Mokpo National University)	A Study on Vibration Analysis for Air Guide in Vehicles
	4. Materials & Design	Lobby(3F)	PP167	2019PRESM-097	Jae-Won Kim(Kongju National University)	A Study of Fracture Characteristic Due to the Generation of Notch Hole Near the Adhesive Interface
	4. Materials & Design	Lobby(3F)	PP168	2019PRESM-098	Jung-Ho Lee(Kongju National University)	A Study on Fracture Behavior of the Tapered Double Cantilever Beam of Nonhomogeneous Material Bonded with Adhesive
	4. Materials & Design	Lobby(3F)	PP169	2019PRESM-443	Bong-Jo Ryu(Hanbat National University)	Numerical and Experimental Study on the Dynamic Characteristics of Polymer Materials
	4. Materials & Design	Lobby(3F)	PP170	2019PRESM-206	Wonseok Choi(Hanbat National University)	Characterization of Functional Film Coated on the Glass Substrate for PV Module According to the Thickness
	4. Materials & Design	Lobby(3F)	PP171	2019PRESM-619	Thanh Vuong Van (Ha Noi University of Science and Technology)	Determining Ideal Strength and Electronic Properties of Ge/Si Core-shell Nanowires
	4. Materials & Design	Lobby(3F)	PP172	2019PRESM-627	Heechan Shim (ILJIN GLOBAL Co.)	Study on Forging Process for Weight Reduction of Wheel Bearing HUB with Dissimilar Materials
	5. Micro/Nano Technology	Lobby(3F)	PP173	2019PRESM-600	Dohee Lee(Chonbuk National University)	Handheld, flexible and user-friendly Van de Graaff-based miniature tribo-electrospinning device
	5. Micro/Nano Technology	Lobby(3F)	PP174	2019PRESM-437	Duc Nam Nguyen(Industrial University of Ho Chi Minh City)	Simulation and experimental study on shear thickening polishing of gear surfaces
	5. Micro/Nano Technology	Lobby(3F)	PP175	2019PRESM-596	Eung-Sug Lee(Korea Institute of Machinery & Materials)	Plasmonics-based Nanopatterning Technology and Its Application in Optoelectronics
	5. Micro/Nano Technology	Lobby(3F)	PP176	2019PRESM-299	Haan Kim(Dongyang Mirae University)	Jet-Circulating Electrodeposition Using Micro Electrode Nozzle
	5. Micro/Nano Technology	Lobby(3F)	PP177	2019PRESM-508	Hong Shik Shin(Korea National University of Transportation)	Deep Electrochemical Etching Using a Laser-Patterned Copper Layer
	5. Micro/Nano Technology	Lobby(3F)	PP178	2019PRESM-091	Hyug-Gyo Rhee(Korea Research Institute of Standards and Science)	Method of Fabrication of an Array of DOEs by Using a Direct Laser Lithographic System
	5. Micro/Nano Technology	Lobby(3F)	PP179	2019PRESM-199	Seokkwan Hong(Korea Institute of Industrial Technology)	Roll-to-roll Nanoimprinting of Ultrafine Patterns on Al Foil Using Femtosecond Laser Nanostructured Stainless Steel Stampers
	5. Micro/Nano Technology	Lobby(3F)	PP180	2019PRESM-483	Jihye Lee(Korea Institute of Machinery & Materials)	Fabrication of the Vertical Array of WO3 Nanorods with Design-Based Ordering for Photochemical Water Splitting
	5. Micro/Nano Technology	Lobby(3F)	PP181	2019PRESM-384	Joonghan Shin(Kongju National University)	UV Nanosecond Laser Processing of Soda-Lime Glass

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July 12		Presentation 16:30-17:30				Affixation time 15:30-16:30
Friday	Topic	Room	Paper No.	Abstract No.	Presenter	Title
	5. Micro/Nano Technology	Lobby(3F)	PP182	2019PRESM-226	Joo-Yun Jung(Korea Institute of Machinery & Materials)	Plasmon-Enhanced Infrared Spectroscopy Based on Metamaterial Absorber with Vertical Nanogap
	5. Micro/Nano Technology	Lobby(3F)	PP183	2019PRESM-143	Jun Young Hwang(Korea Institute of Industrial Technology)	Robust Detector of Multiple-Lane Patterns on Printed Devices for Laser Ablation
	5. Micro/Nano Technology	Lobby(3F)	PP184	2019PRESM-444	Sang Hoon Lee(Seoul National University of Science and Technology)	Fabrication and Evaluation of a Drag-Force Type Flowmeter for Wide Range Measurement
	5. Micro/Nano Technology	Lobby(3F)	PP185	2019PRESM-219	Sangwoo Kim(Korea Institute of Industrial Technology)	Development and Investigation of Cu-Ag composite by Planetary Milling
	5. Micro/Nano Technology	Lobby(3F)	PP186	2019PRESM-238	Seong J. Cho(Chungnam National University)	Development of a Portable Electrospinning System for Biomedical Applications
	5. Micro/Nano Technology	Lobby(3F)	PP187	2019PRESM-037	SEUNG-JUN LEE(Seowon University)	Fabrication of Magnetic Microneedles(MMNs) Array Containing Iron Oxide Nanoparticles (IONS) Through Micropatterned Mold
	5. Micro/Nano Technology	Lobby(3F)	PP188	2019PRESM-141	Won Seok Chang(Korea Institute of Machinery & Materials)	Conductive Pattern Fabrication on Heat-sensitive Substrate
	5. Micro/Nano Technology	Lobby(3F)	PP189	2019PRESM-118	Dong Kyo Oh(Seoul National University of Science and Technology)	High-Precision Continuous Nanopatterning Based on Uniaxial Piezo Actuator Vibration
	5. Micro/Nano Technology	Lobby(3F)	PP190	2019PRESM-222	Guk-Hwan Lee(Chonnam National University)	Mechanically Robust Three-dimensional Nanostructure of Aramid Nanofibers via Covalent Crosslinking
	5. Micro/Nano Technology	Lobby(3F)	PP191	2019PRESM-348	Hiep Tran Van(Hanbat National University)	The Flexibility and Electrical Properties of Carbon Nanowall Transferred on Plasma-Treated Porous Polyimide Substrate
	5. Micro/Nano Technology	Lobby(3F)	PP192	2019PRESM-277	Hye Jin Choi(Kyungpook National University)	Preparation of Chitosan Microparticles Based on Microfluidic Device
	5. Micro/Nano Technology	Lobby(3F)	PP193	2019PRESM-251	Hyeokjoo Choi(Hanbat National University)	Characteristics of Carbon Nanowall According to ITO Interlayer Thickness
	5. Micro/Nano Technology	Lobby(3F)	PP194	2019PRESM-162	Hyeongjun Kim(Inha University)	Highly Sensitive and Flexible Ionic Thermocouple Based on Ionic Seebeck Effect
	5. Micro/Nano Technology	Lobby(3F)	PP195	2019PRESM-073	Inho Ha(Seoul National University)	Development of Transparent 3D Touch Via Laser Induced Micro-Structure Engineering
	5. Micro/Nano Technology	Lobby(3F)	PP196	2019PRESM-210	Hwayeong Jeong(Korea Advanced Institute of Science and Technology)	Development and Analysis of a Flexible Surface Electromyography(sEMG) Sensor
	5. Micro/Nano Technology	Lobby(3F)	PP197	2019PRESM-329	Kibeom Kwon(Korea Institute of Industrial Technology)	Catalyst-decorated CNT Heater System for VOCs Decomposition
	5. Micro/Nano Technology	Lobby(3F)	PP198	2019PRESM-246	Kyoung Chan Min(Korea Polytechnic University)	Nanostructuring of Steel Tool Surface for Injection Molding by Spin-on Glass Material Coating and Nanoimprinting
	5. Micro/Nano Technology	Lobby(3F)	PP199	2019PRESM-603	Soyoung Han(Myongji University)	Fabrication of Liquid Crystal Device with Layer-by-Layer Assembled Carbon Nanotube Thin Films
	5. Micro/Nano Technology	Lobby(3F)	PP200	2019PRESM-548	Sung Jae Lee(Pusan National University)	Moth-Eye Pattern based on Six Beam Laser Interference Lithography Using the Prism and Application of Optical Devices
	5. Micro/Nano Technology	Lobby(3F)	PP201	2019PRESM-221	Sungmook Lim(Chonnam National University)	High-quality Graphene Sheets by Biased DC-switching Exfoliation of Expanded Graphite
	5. Micro/Nano Technology	Lobby(3F)	PP202	2019PRESM-362	SUNHEE CHO(Chonbuk National University)	Fabrication of Microfiber Bundles Using Far Field Electrohydrodynamic Direct Printing for Tissue Engineering Applications
	5. Micro/Nano Technology	Lobby(3F)	PP203	2019PRESM-425	YANGJIN KIM(Pusan National University)	Design of Polynomial Window Function for Measurement of Silicon Wafer Using Wavelength Tuning Interferometry
	5. Micro/Nano Technology	Lobby(3F)	PP204	2019PRESM-621	Seok-min Kim(Pusan National University)	Fabrication of Glass Plasmonic Nanostructure by Glass Nanoimprinting with Vitreous Carbon Stamp
	6. New and Renewable Energy	Lobby(3F)	PP205	2019PRESM-547	Chae Wook Lim(Hanbat National University)	A Verification on the Similarity of Torque Response Between MW Wind Turbine and Small-Scale Simulator
	6. New and Renewable Energy	Lobby(3F)	PP206	2019PRESM-436	Zhize Deng(Wonkwang University)	Annealing Effect on Electrochemical Performance of Al-Air Battery
	6. New and Renewable Energy	Lobby(3F)	PP207	2019PRESM-583	Jungho Choe(Korea University)	A Roller-Bearing Structured Self-Powered Angle Measurement Sensor Based on Triboelectric Nanogenerator
	6. New and Renewable Energy	Lobby(3F)	PP208	2019PRESM-480	Jungmin Kwon(Hanbat National University)	Energy Storage System with BSPC Converter and Low Voltage Battery
	6. New and Renewable Energy	Lobby(3F)	PP209	2019PRESM-450	Kyuwon Jeong(Chungbuk National University)	Development of a Group of Single Axis Solar Trackers for Solar Power Plant
	6. New and Renewable Energy	Lobby(3F)	PP210	2019PRESM-556	Minhan Yoon(Tongmyong University)	Intelligent Adaptive Droop Control of Energy Storage System Considering Power System Condition
	6. New and Renewable Energy	Lobby(3F)	PP211	2019PRESM-150	Sanghoon Ji(Korea Institute of Civil Engineering and Building Technology)	Thickness Determination of a Solid Oxide Fuel Cell Blocking Layer Deposited by Atomic Layer Deposition Considering the Non-Uniform Surface Geometry of Porous Substrate
	6. New and Renewable Energy	Lobby(3F)	PP212	2019PRESM-434	Sanghoon Ji(Korea Institute of Civil Engineering and Building Technology)	Integrated Design of Ultrathin Alumina Capping-Layered Nanoporous Platinum Thin-Film Cathode for Low-Temperature Solid Oxide Fuel Cells
	6. New and Renewable Energy	Lobby(3F)	PP213	2019PRESM-386	Taehyun Park(Soongsil University)	Membrane-Electrode Assembly with Ultra-Low Pt by Sputtering for Passive Direct Methanol Fuel Cells
	6. New and Renewable Energy	Lobby(3F)	PP214	2019PRESM-202	Wookyung Kim(Hiroshima University)	Cellular Instabilities in Spherically Propagating Hydrogen-Air Flames
	6. New and Renewable Energy	Lobby(3F)	PP215	2019PRESM-128	Wonjun Jang(Myongji University)	High Versatility of Non-Conducting Polymer/Carbonaceous Composite Thermoelectric Thin Films Fabricated by Layer-by-Layer Technique
	6. New and Renewable Energy	Lobby(3F)	PP216	2019PRESM-205	Changyeon Lee(Hanbat National University)	The Thickness Effect on the Functional Coating for the Anti-Pollution PV Module
	6. New and Renewable Energy	Lobby(3F)	PP217	2019PRESM-233	Dong Eun Jung(Hanbat National University)	Analysis of Solar Power Generation with Various PV Surface Temperature Algorithms Used for Building Applications
	6. New and Renewable Energy	Lobby(3F)	PP218	2019PRESM-241	Gyuseong Youn(Hanbat National University)	Reflection Coefficients of a Model for Gas Turbine Combustor Burning Synthetic Natural Gas
	6. New and Renewable Energy	Lobby(3F)	PP219	2019PRESM-129	HABTAMU GEBEYEHU MENGE(Myongji University)	Enhanced Triboelectric Performance of Porous Graphene-PDMS Nanocomposite Multilayers
	6. New and Renewable Energy	Lobby(3F)	PP220	2019PRESM-516	MINJOO CHOI(Hanbat National University)	A Case Study on Annual Energy Balance of Plus Energy House Based on Operational Data
	6. New and Renewable Energy	Lobby(3F)	PP221	2019PRESM-160	Hyung-Jun Park(Dong A University)	Liquid-Cooled Type Cooling System of 6.2MW Class Hybrid Direct-Drive Generator for Wind Turbine
	6. New and Renewable Energy	Lobby(3F)	PP222	2019PRESM-158	Jae Yun Baek(Inha University)	Stretchable and Flip-Flop Designed Thermo-Electrochemical Array Cells for the Use of Wearable Body Heat Harvester
	6. New and Renewable Energy	Lobby(3F)	PP223	2019PRESM-187	Jung-Hwan Kim(Hanbat National University)	Predictive Utilization of Energy Storage with Voltage Expectation for PV systems
	6. New and Renewable Energy	Lobby(3F)	PP224	2019PRESM-156	Ju Hwan Lee(Inha University)	Transparent Thermo-Electrochemical Cells for the Use of Energy Harvesting Window
	6. New and Renewable Energy	Lobby(3F)	PP225	2019PRESM-164	Jun Ho Lee(Inha University)	Hybrid Thermo-Electrochemical Cells Inserting Piezoelectric Cantilever
	6. New and Renewable Energy	Lobby(3F)	PP226	2019PRESM-163	Kil Yong Shin(Inha University)	Paper Based Thermo-Electrochemical Cell for Changeable Output Voltage and Power with Origami
	6. New and Renewable Energy	Lobby(3F)	PP227	2019PRESM-114	Kyeongmi Kim(Hanbat National University)	Development of Perovskite Solar Cell by Using Spin Coating Technology
	6. New and Renewable Energy	Lobby(3F)	PP228	2019PRESM-099	Hyunah Lee(Hanbat National University)	An Experimental Study on the Manufacturing Process and Evaluation of Transparent Conductive Film Type Organic Photovoltaic Module

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July 12	Presentation 16:30-17:30					Affixation time 15:30-16:30
Friday	Topic	Room	Paper No.	Abstract No.	Presenter	Title
	6. New and Renewable Energy	Lobby(3F)	PP229	2019PRESM-151	Hyomun Lee(Hanbat National University)	Definition and Classification of BiPV System in Korea
	6. New and Renewable Energy	Lobby(3F)	PP230	2019PRESM-237	XuanLong Trinh(Inje University)	Fully Solution-Processed Perovskite Solar Cells Fabricated by Lamination Method
	6. New and Renewable Energy	Lobby(3F)	PP231	2019PRESM-342	ZHE-HAO ZHANG(National Kaohsiung University of Science and Tehnology)	Microfabrication of the Graphene-Doped PEDOT:PSS Films for Organic Solar Cells
	7. Sustainable Technology	Lobby(3F)	PP232	2019PRESM-110	Jongryeol Kim(Tongmyong University)	Examination of Precision of Temperature Control of Experimental Chamber for Heat Pump Test
	7. Sustainable Technology	Lobby(3F)	PP233	2019PRESM-176	JungGil Lee(Korea Institute of Industrial Technology)	Fundamental Study of Adsorption System for Cooling and Freshwater Generation
	7. Sustainable Technology	Lobby(3F)	PP234	2019PRESM-059	Kyong Kim(Chungbuk Provincial University)	Design of Service Platform for Monitoring of Physiological Signal of the Elderly in Rural Residents
	7. Sustainable Technology	Lobby(3F)	PP235	2019PRESM-174	Kyungjin Bae(Korea Institute of Industrial Technology)	Expansion Characteristic Investigation on the U-Tubes for Adsorption Chiller
	7. Sustainable Technology	Lobby(3F)	PP236	2019PRESM-106	Sang-Min Byon(Dong A University)	The Effect of Stent Porosity on Fatigue Life of Stent Structure Deployed on Cerebral Aneurysm
	7. Sustainable Technology	Lobby(3F)	PP237	2019PRESM-297	SUNGYUN PARK(Dongguk University)	Increasing Rehabilitation Performance with Smart-Bar and Smart Device
	7. Sustainable Technology	Lobby(3F)	PP238	2019PRESM-229	Tae-Soo Kwak(Gyeongnam National University of Science and Technology)	Development of HVAC System for a Container for the Mushroom Cultivation
	7. Sustainable Technology	Lobby(3F)	PP239	2019PRESM-127	Hansoul Kim(Korea Advanced Institute of Science and Technology)	Automatic Visual Guidance for Lesion Marking in Endoscopic Procedure and Its Effectiveness Validation
	7. Sustainable Technology	Lobby(3F)	PP240	2019PRESM-168	Gyuhwan Yeom(Hanbat National University)	Evaluation on Energy Benefits from an Advanced Control Method for the Radiant Floor Heating System
	7. Sustainable Technology	Lobby(3F)	PP241	2019PRESM-484	Jaehee Jeong(Korea University)	Evaluation of Degradation Effect on Mechanical Properties of Hydroxyl-terminated Polybutadiene(HTPB)
	7. Sustainable Technology	Lobby(3F)	PP242	2019PRESM-339	Jaesoo Hong(Korea Institute of Industrial Technology)	Analysis of the Correlation Between Motion Analysis Sensors for the Movement of Human Body
	7. Sustainable Technology	Lobby(3F)	PP243	2019PRESM-157	Ju Hyeon Kim(Inha University)	Highly Stretchable Gel Type Low-grade Thermal Energy Harvester
	7. Sustainable Technology	Lobby(3F)	PP244	2019PRESM-580	Mi Yeon Shin(Chonbuk National University)	Development of Eyeglass type Skin Beauty Device with Integrated LED Optical Module and Universal Design
	7. Sustainable Technology	Lobby(3F)	PP245	2019PRESM-075	Woong Cho(Korea University)	Inverse Dynamics Study of the Effects of Squat Exercise on Scoliosis Correction
	Organized session	Lobby(2F)	OS013	2019PRESM-317	Dong-Mok LEE(Maxrotec co. Ltd.)	Addition of Functionality of Trimming Molds Using 6-Axis Hybrid Metal 3D Printing Machine Tool
	Additive manufacturing	Lobby(2F)	OS014	2019PRESM-043	Haeyong Yun(Korea Institute of Robot Convergence)	3D Printable Pressure Sensor with MWCNTs
		Lobby(2F)	OS015	2019PRESM-030	Hyun-Wook Kang(Ulsan National Institute of Science and Technology)	3D Bio-Point Printing with In Situ Formation of Cell Spheroids
		Lobby(2F)	OS016	2019PRESM-446	Sungjin Park(SHINYOUNG)	A Study on the Development of Trimming Dies Using Additive Manufacturing for 1500MPa Car-Body Parts
		Lobby(2F)	OS017	2019PRESM-280	Yoon Sun Lee(Korea Institute of Industrial Technology)	Investigation on Microstructure and Mechanical Behavior of Hastelloy X Obtained by Direct Energy Deposition(DED) Process
		Lobby(2F)	OS018	2019PRESM-427	Gyeongyun Baek(Chonnam National University)	Evaluation of Mechanical Characteristic of HWS Tool Steel by Directed Energy Deposition
		Lobby(2F)	OS019	2019PRESM-401	Jee-Eun Jang(Korea Institute of Industrial Technology)	Changes in Microstructure and Mechanical Property of Hastelloy X Alloy Deposited by Powder Bed Fusion Process
		Lobby(2F)	OS020	2019PRESM-465	Jeonghee You(Seoul National University of Science and Technology)	Design and Additive Manufacturing of Wearable Toothbrush
		Lobby(2F)	OS021	2019PRESM-243	Ji Su Han(Korea Institute of Industrial Technology)	Development of Injection Mould Core with Conformal Cooling Channel for Pottery Shaped Thick-Wall Container Using Direct Metal Tooling (DMT)
		Lobby(2F)	OS022	2019PRESM-489	Jung-Hwan Park(Seoul National University of Science and Technology)	Deformation Behavior of Lattice Structures Fabricated by DLP 3D Printing
		Lobby(2F)	OS023	2019PRESM-119	Minseob Kim(Korea Maritime and Ocean University)	Effect of Ultrasonic Nanocrystal Surface Modification on Wear-Resistance of High-Speed Tool Steel deposited by Direct Energy Deposition
		Lobby(2F)	OS024	2019PRESM-049	Myung-Pyo Hong(Korea Institute of Industrial Technology)	A Study on Development of Residual Stress Reduction Technique in Additive Manufacturing Using DED Technology
	Organized session	Lobby(2F)	OS034	2019PRESM-542	Chanwoo Lee(Korea Railroad Research Institute)	Design and Test Evaluation of Non-Contact Detection System for Detection of Welding Defects in Bogie Frame of Railway Vehicle
	Railway Engineering	Lobby(2F)	OS035	2019PRESM-177	Jungwon Seo(Korea Railroad Research Institute)	Load History Measurement of Carbody and Bogie Interface of Railway Vehicle
		Lobby(2F)	OS036	2019PRESM-430	Seok-Jin Kwon(Korea Railroad Research Institute)	Railway Bogie Monitoring System based on Battery and Wireless
		Lobby(2F)	OS037	2019PRESM-124	Wootae Jeong(Korea Railroad Research Institute)	Development of Ultra-Fine Dust Removing Railway Vehicle – Dust Removal Efficiency Evaluation for Cyclone Filter and Electrostatic Precipitation System
		Lobby(2F)	OS038	2019PRESM-007	Young-Sam Ham(Korea Railroad Research Institute)	Running Safety Test to Prove the Maximum Speed Performance of KTX-Sancheon
	Organized session	Lobby(2F)	OS043	2019PRESM-395	Geon Hee Kim(Korea Basic Science Institute)	Analysis of Ultrasonic Fabrication Results and Comparison of Surface Roughness of Stainless Steel
	Development of freeform optics	Lobby(2F)	OS044	2019PRESM-215	Jangwoo Kim(Pohang Accelerator Laboratory)	Development of Stitching Interferometer Using Fizeau Interferometer for X-ray Mirror Measurement
	Manufacturing Process and Measurement	Lobby(2F)	OS045	2019PRESM-169	Sangwon Hyun(Korea Basic Science Institute)	Development of the Freeform Optics Measurement System Based on Sub-Aperture Stitching Interferometry
		Lobby(2F)	OS046	2019PRESM-031	Soonkyu Je(Korea Basic Science Institute)	Development of Lens-in-Lens Optical Device
		Lobby(2F)	OS047	2019PRESM-032	Dong Chan Seok(National Fusion Research Institute)	Etching Profile Change of SiC Substrate by a Single DBD Filament Plasma
		Lobby(2F)	OS048	2019PRESM-090	Kang Il Lee(National Fusion Research Institute)	Development of Atomic Layer Etching Polishing Technology for SiC
		Lobby(2F)	OS049	2019PRESM-172	Wonkyun Lee(Chungnam National University)	Post-Process Machining of 3D Printed Product by Using 5DOF Robot
	Organized session	Lobby(3F)	OS058	2019PRESM-438	Sung-Cheol Park(Korea Maritime and Ocean University)	Short Stroke Control Model for Improving Width Precision at Head and Tail of Slab in Hot Vertical-Horizontal Rolling Process
	Innovative Forming	Lobby(3F)	OS059	2019PRESM-325	Sang-Kon Lee(Korea Institute of Industrial Technology)	Study on Wire Drawing Process for 30μm Fine Rhodium Wire
		Lobby(3F)	OS060	2019PRESM-103	Eu-Tteum Park(Pusan National University)	Comparative Study on Tensile Properties of Fiber Metal Laminate Manufactured by Microwave-Based Curing Process
		Lobby(3F)	OS061	2019PRESM-052	Jaehong Kim(Pusan National University)	Dimensional Stability in Hot Stamping Process by Local Blank Heating
		Lobby(3F)	OS062	2019PRESM-086	Jeong-Hun Kim(Pusan National University)	Evaluation of Friction Characteristics in Deformation Type of Cold Forging and Its Application
		Lobby(3F)	OS063	2019PRESM-551	Cheongyeol Gwak(Pusan National University)	Fluid Analysis on Optimal Parameters Affecting Post-Injection Behavior of Self-Focusing Micro-Waterjet