PRESM2025_Poster Presentation Schedule_V3

Chiang Mai Marriott Hotel (4F), Suthep Hall 1

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
1	PP1-001	PRESM2025-A003	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Study on Fatigue Strength of Solution-treated 3D Additive Manufacrured Maraging Steel by Application of Surface Crack Harmless Technology	Ji-min Yun	Pukyong National University	Ki Woo Nam
2	PP1-002	PRESM2025-A006	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Milling Stability Prediction of Vpvh Tools Using Third-order Full-discretization Method	Yukun Xiao	Shanghai Jiao Tong University	Zhengchun Du
3	PP1-003	PRESM2025-A017	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Machining Feature Recognition Using YOLO11-seg and Sectional Composite Images	Jen Hsiang Tsai	National Cheng Kung University	Chunhui Chung
4	PP1-004	PRESM2025-A018	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Parameter Study of Power and Energy Consumption in Straight Turning	Chia-Ling Hsieh	National Cheng Kung University	Chunhui Chung
5	PP1-005	PRESM2025-A019	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Energy Consumption and Property Optimization in Laser Powder Bed Fusion of Fe-50wt%Ni Permalloys	Chi-Chun Chen	National Cheng Kung University	Chunhui Chung
6	PP1-006	PRESM2025-A020	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Regenerating Electrospun Cellulose Acetate Nanofibers for Rod-like Nanocellulose Hydrogels	Joon Yeon Moon	Jeonbuk National University	Chan Hee Park
7	PP1-007	PRESM2025-A028	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Characteristic of Solvent For Jetting Properties in Binder Jetting 3D Printing	Mina Bae	Korea Institute of Industrial Technology	Jae Ho Baek
8	PP1-008	PRESM2025-A030	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of an On-build Plate Milling Process for Improving Post-processing Workability in Metal Additive Manufacturing	Min Ji Ham	Korea Institute of Industrial Technology	In Yong Moon
9	PP1-009	PRESM2025-A034	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Evaluation of Microstructure and Mechanical Properties of SUS430-10Cu Alloy Fabricated by Pm-Hip Process at Different Sintering Temperatures	Hyun-Su Kang	Korea Institute of Industrial Technology	Taeg Woo Lee
10	PP1-010	PRESM2025-A044	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Optimization of Textile Dyeing Processes Using Digital Twin Technology	Hee Dong Lee	Korea Institute of Industrial Technology	Hee Dong Lee
11	PP1-011	PRESM2025-A049	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Study on Chemical Composition Changes in Outputs Produced by the WAAM (Wire Arc Additive Manufacturing) Process Applied to Ti-6Al-4V Alloy	MyungPyo Hong	Korea Institute of Industrial Technology	MyungPyo Hong
12	PP1-012	PRESM2025-A050	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Evaluation of Welding Shoe Geometry on the Mechanical Performance of HDPE Joints for Marine and Industrial Applications	Chung Woo Lee	Korea Institute of Industrial Technology	Jisun Kim
13	PP1-013	PRESM2025-A069	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Parameter Optimization of Coaxial Magnetic Gear for Cogging Torque Design	Kang Hee Lee	Yonsei University	Jun Young Yoon
14	PP1-014	PRESM2025-A070	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Study on Tension-based Compensation Method in Roll-to-roll Systems	Junyoung Yun	Konkuk University	Changwoo Lee
15	PP1-015	PRESM2025-A071	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Analysis of Delamination Mechanism and Deformation Behavior of Enamel Coated Rectangular Wire for Continuous Winding	Myeong-Sik Jeong	Korea Institute of Industrial Technology	Myeong-Sik Jeong
16	PP1-016	PRESM2025-A072	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Novel Approach to Enhance the Performance of Roll-to-roll Winding Processes	Noh Jaehyun	Konkuk University	Changwoo Lee
17	PP1-017	PRESM2025-A091	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Study on Rotor Dynamics for the Development of a 600 kW 33,000 RPM Ultra-high Speed Motor	GyuYoung Lee	KNR Systems	SangMoo Lee
18	PP1-018	PRESM2025-A093	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Rotary Straightening of Fine Medical Wires	Yuan-Ting Lo	National Tsing Hua University	Albert Shih
19	PP1-019	PRESM2025-A094	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Compensation Method for Perpendicularity Enhancement of Cylinder Thrust Surfaces of Engine based on Anti-deformation	Yuqi Zhou	Shanghai Jiao Tong University	Zhengchun Du
20	PP1-020	PRESM2025-A106	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development and Evaluation of a Polymeric Binding Material for Binder Jet 3D Printing of Stainless Steel Powder	Tran Thi Yen	Korea Institute of Industrial Technology	Jae Ho Baek
21	PP1-021	PRESM2025-A108	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of a Mechanical Property Map for Isolated Environments Using Limited Steel Alloys: Applications in Additive Manufacturing	Jeong-rim Lee	Korea Institute of Industrial Technology	Dong-Hyun Kim
22	PP1-022	PRESM2025-A109	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Process Improvement to Optical Reflector Form Accuracy	Hwan Ho Maeng	Hanbat National University	Geon Hee Kim
23	PP1-023	PRESM2025-A112	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Process Optimization and Correlation Analysis of Mechanical Properties and Microstructure in AISI 4130 Low-Alloy Steel Fabricated by Laser Powder Bed Fusion	Dong-hyun Kim	Korea Institute of Industrial Technology	Dong-hyun Kim
24	PP1-024	PRESM2025-A113	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Multi-Modal Data Integration Framework for Smart Manufacturing: Enhanced Surface Inspection Using Confocal Sensor and 2D Vision	Jinsu Ha	Korea Institute of Industrial Technology	Jinseok Jang
25	PP1-025	PRESM2025-A115	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Effect of LPBF Process Parameters and Post-heat Treatment Conditions on the Mechanical Properties and Microstructure of Maraging Steel 1.2709	Van Loi Tran	Korea Institute of Industrial Technology	Dong-Hyun Kim

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
26	PP1-026	PRESM2025-A119	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Nano-Micro Pattern Machinability based on Orthogonal Cutting	Joong Kyu Ham	Hanbat National University	Geon Hee Kim
27	PP1-027	PRESM2025-A132	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Effect of Alloying Element Addition on Wear Resistance Improvement of Gray Cast Iron	Soo Bin Han	Korea Institute of Industrial Technology	Hyejin Song
28	PP1-028	PRESM2025-A136	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Additive Manufacturing of Magnetic Materials for High-performance 3D-Printed Motors	Taeho Ha	Korea Institute of Machinery & Materials	Taeho Ha
29	PP1-029	PRESM2025-A138	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	The Effect of Laser Structuring on Hot-Press Joined Metal-Polymer Cross Tension Joints	Suk Young Chey	Seoul National University	Sung-Hoon Ahn
30	PP1-030	PRESM2025-A142	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Enhancing Silicon Wafer Dicing Quality through Radial Ultrasonic Vibration: A Study on Brittle-to-ductile Transition	Tae Jo Ko	Yeungnam University	Tae Jo Ko
31	PP1-031	PRESM2025-A143	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Grayscale 3D Printing of Ferromagnetic Composite Materials	Hyeokbae Kwon	Inha University	Hyun-Taek Lee
32	PP1-032	PRESM2025-A152	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Stretch Bending Springback Prediction in Thin Metal Wires	Chien-Yin Wang	National Tsing Hua University	Albert Shih
33	PP1-033	PRESM2025-A162	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Monitoring system for Tool Failure Detection in Straight Line Saw (SLS) Process using Sensor based Analysis	Mi Ru Kim	Korea Institute of Industrial Technology	Mi Ru Kim
34	PP1-034	PRESM2025-A170	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	AI-based Mechanical Properties Prediction of Sintering-aging Combined Effect in Metal-material Extrusion	JungYeon Kim	Nanyang Technological University	Seung Ki Moon
35	PP1-035	PRESM2025-A177	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Design Complexity-driven Optimization of Production Efficiency and Scheduling for Metal-polymer Hybrid Structures in Additive Manufacturing	Jongsuk Lee	Nanyang Technological University	Seung Ki Moon
36	PP1-036	PRESM2025-A198	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Numerical Investigation of Angularity Tolerance in Bolt Insertion for CFRP/Aluminum Stack Holes	Tae-Gon Kim	Korea Institute of Industrial Technology	Tae-Gon Kim
37	PP1-037	PRESM2025-A201	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Quantitative Evaluation of Dehydration Efficiency in the Pulp Molding Process	Jae Hyuk Choi	Gwangju University	Jae Hyuk Choi
38	PP1-038	PRESM2025-A204	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Electrically Assisted Rapid Heat Treatment on Electrically Assisted Solid-state Spot Joint of Aluminum A365-T6 Cast Alloy	Van Cong Phan	University of Ulsan	Sung-Tae Hong
39	PP1-039	PRESM2025-A206	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Electrically assisted Solid-state Spot Joining of Dissimilar SGACUD Steel and Aluminum 6451 Alloy	SuHyeon Choo	University of Ulsan	SungTae Hong
40	PP1-040	PRESM2025-A208	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of Manufacturing Process for Carbon Fiber Surface-reinforced Magnesium Alloy	Yukihiko Kakuda	Hiroshima University	Yongbum Choi
41	PP1-041	PRESM2025-A211	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Wetting Behavior of Superhydrophobic Aluminum Surface Prepared by grinding and Subsequent Treatments	Nguyen Quang Chien Do	University of Ulsan	Doo-Man Chun
42	PP1-042	PRESM2025-A215	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Magnetic Properties related with Microstructure of Laser-melted Soft Magnetic Composites (Ni-Fe-Mo) by Process Optimization	ChihHsiang Chang	National Cheng Kung University	ChingYuan Ho
43	PP1-043	PRESM2025-A222	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Simultaneous Joining and Forging of Dissimilar Aluminum Alloys by Electrically Assisted Closed-die Forging	Thanh Thuong Do	University of Ulsan	Sung-Tae Hong
44	PP1-044	PRESM2025-A223	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Formability of Aluminum Alloy 6061-T6 at Subzero Temperatures	Yixing Zhao	University of Ulsan	Sung-Tae Hong
45	PP1-045	PRESM2025-A224	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Electropulsing-solution Treatment of Al-Zn-Mg-Cu Alloys	Meiling Geng	University of Ulsan	Sung-Tae Hong
46	PP1-046	PRESM2025-A226	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Case Study on Fault Type Classification and Action Prediction Using Unstructured Text Data from Automotive Parts Manufacturers	MinJae Ko	Korea Institute of Industrial Technology	MinJae Ko
47	PP1-047	PRESM2025-A229	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Fatigue Characteristics of Functionally Graded Materials Fabricated Using the Directed Energy Deposition Process	Yongho Jeon	Ajou University	Yongho Jeon
48	PP1-048	PRESM2025-A235	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of Physical Property Prediction Algorithms for Cemented Carbide Tool Materials according to Process Conditions	Chung Woo Lee	Korea Institute of Industrial Technology	Jisun Kim
49	PP1-049	PRESM2025-A236	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Study on Deriving the Optimal Runner Shape of an Automotive Console Box Using Casting Analysis	SeokBae Lee	Korea Testing & Research Institute	SeokBae Lee
50	PP1-050	PRESM2025-A238	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Finite Element Analysis of High-speed Laser Wire Patterning for High-resolution MicroLED Displays	Ji-Woo Kim	Korea Institute of Industrial Technology	Jong-Su Kim

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
51	PP1-051	PRESM2025-A241	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Enhancing Sim2Real Transfer: A Surrogate Approach for Robot Policy Evaluation via Simulation & Real-world Experiments	Subin Im	Sungkyunkwan University	Jaeseon Lee
135	PP1-052	PRESM2025-A489	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of Workpiece Recognition AI Model Using Simulation-based Data Generation	Soonhwan Kwon	Kangwon National University	Byeonghee Kim
53	PP1-053	PRESM2025-A253	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	3D Printing of Axial Flux Motor Stators Using Custom-made PA12/Fe Composite Filaments	Taemin Kim	KAIST	Sanha Kim
54	PP1-054	PRESM2025-A256	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Semantic Segmentation-based Real-time Monitoring System for Uniform Fiber Production in Coaxial Electrospinning	Yeong-Seo Kim	Pusan National University	Suk-Hee Park
55	PP1-055	PRESM2025-A257	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Reinforcement Learning-based Mechanical Interlocking Design for Joining of Additively Manufactured Metal-polymer Parts	JuChan Yuk	Pusan National University	SukHee Park
56	PP1-056	PRESM2025-A258	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Data-driven Geometrical Shape Prediction Model of Sintering Deformation in Metal Binder Jetting Process	Seungyon Cho	Nanyang Technological University	Seung Ki Moon
57	PP1-057	PRESM2025-A262	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Bayesian Optimization of Laser Powder Bed Fusion Parameters for Enhanced Overhang Print Quality	Kyunglim Oh	Pusan National University	Sukhee Park
58	PP1-058	PRESM2025-A271	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Multi-Material 3D Printer Integrating Direct Ink Writing and Hot Extrusion Additive Manufacturing	Kyunghyun Kim	KAIST	Sanha Kim
59	PP1-059	PRESM2025-A278	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Investigation on Printability and Electrical Conductivity of CNT Nanocomposites Using DLP 3D Printing	Jiwan Kang	Seoul National University of Science and Technology	Keun Park
60	PP1-060	PRESM2025-A283	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Research on Designing Vision Inspection Algorithms for Post-processing Large Cylinder Block Castings	Kwang-Ho Lee	Korea Institute of Industrial Technology	Jong-Sun Kim
61	PP1-061	PRESM2025-A287	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Study on the Development and Verification of a Roll Forming Device for Direct Melt Pool Compression in Wire-arc DED	Hwi Jun Son	Changwon National University	Young Tae Cho
62	PP1-062	PRESM2025-A295	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Fabrication of Miniaturized Eddy Current Sensor Embedded in Thin Magneto-rheological Elastomer Film	Joohyun Park	KAIST	Sanha Kim
63	PP1-063	PRESM2025-A298	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Real-time Prediction of Remaining Tool Life Using Accelerometer Signals and an XGBoost-MLP Ensemble Model	Mingyu Jeong	Jeonbuk National University	Shihyoung Ryu
64	PP1-064	PRESM2025-A300	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of Prediction Methods for Residual Stress and Strain in Welding Using Additive Manufacturing Simulation Technique	Jun Beom Kim	Seoul National University of Science and Technology	Nak-kyun Cho
65	PP1-065	PRESM2025-A301	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Limit Load Analyses of Pipe Bend Structures Considering Effects of Tube Bending Process	Dongwon Lee	Seoul National University of Science and Technology	Nak-Kyun Cho
66	PP1-066	PRESM2025-A303	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	An AAS-based Edge Platform for Digital Twin and Predictive Maintenance in Smart Manufacturing	TaeGyeom Bae	Seoul National University of Science and Technology	JuYeon Lee
67	PP1-067	PRESM2025-A305	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Evaluation of Electrolytic In-process Dressing (ELID) on CVD-SiC for the Large-aperture Optical Reflector	Su-Yeon Han	Gyeongsang National University	Tae-Soo Kwak
68	PP1-068	PRESM2025-A312	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Reinforcement Learning-based Path Planning for Optimizing Robotic Motion and Geometric Quality in the WAAM Process	Jeong Min An	Seoul National University of Science and Technology	Ju Yeon Lee
69	PP1-069	PRESM2025-A315	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	WAAM-based Fabrication and Mechanical Evaluation of Chromium-molybdenum Steel Forging Dies	Woo Jin Jeong	Changwon National University	Young Tae Cho
70	PP1-070	PRESM2025-A319	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Influence of Material Thickness and Welding Current on Fatigue Fracture in Cross Fillet TIG Welded Joints	Kwan Woo Ko	Changwon National University	Young Tae Cho
71	PP1-071	PRESM2025-A322	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A study on Influence of Cutting Parameters on Geometric Errors in Two-sided Machining of Large Rib Parts	Min Suk Park	Korea Institute of Industrial Technology	Hoon-Hee Lee
72	PP1-072	PRESM2025-A325	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Performance Evaluation of Non-contact On-machine Measurement Using a Laser Scanner and Distance Sensor	Hoyoung Bang	Korea Institute of Industrial Technology	Hoonhee Lee
73	PP1-073	PRESM2025-A336	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Finite Element Analysis and Life Prediction of a Three-row Crowned Roller Bearing for a Large Wind Turbine	JunPyo Hong	Jungwon University	JongHun Kang
74	PP1-074	PRESM2025-A342	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development of High-resolution Additive Manufacturing Technology Using Low Heat Input Laser-Arc Hybrid WAAM Process	In Soo Jo	Changwon National University	Young Tae Cho
75	PP1-075	PRESM2025-A343	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Workpiece Model for Digital Twin Applications of Cutting Processes based on Octree and Distance Fields	Hyun-Joon Kim	Kyungpook National University	Segon Heo

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76	PP1-076	PRESM2025-A345	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	FE Analysis of Induction Heating Process of Raceway for Wind Turbine Bearing	Yeongjun An	Jungwon University	Jonghun Kang
77	PP1-077	PRESM2025-A348	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Multistage Drawing FE Analysis of Al/Cu bimetallic composite	SeHan Son	Jungwon University	JongHun Kang
78	PP1-078	PRESM2025-A349	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	A Study on Manufacturing Technology for Lightweight Automotive Undercovers with Recyclable PET FELT	Eui-Chul Jung	Korea Institute of Industrial Technology	Sung-Hee Lee
79	PP1-079	PRESM2025-A352	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Real-time Digital Twin-based Compensation of Deposited Geometry in the DED Process	Segon Heo	Korea Institute of Machinery & Materials	Segon Heo
80	PP1-080	PRESM2025-A355	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Superior Corrosion Resistance of In-situ Synthesized Cu-Al Alloy via Directed Energy Deposition	Changliang Yao	Korea Maritime and Ocean University	Dosik Shim
81	PP1-081	PRESM2025-A279	Regular	Poster II	Tuesday, 8 July	16:10-17:10	1. Manufacturing Processes	Development and Evaluation of Trimodal Silver Paste for High-frequency EMI Shielding Films with a Focus on Flexibility, Durability, and Shielding Characteristics	Hyun Jin Nam	Korea Electronics Technology Institute	Se-Hoon Park
82	PP1-082	PRESM2025-A357	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	AutomationML-based AMR Task Scenario Design for CNC Integration	Dong Yoon Lee	Korea Institute of Industrial Technology	Dong Yoon Lee
83	PP1-083	PRESM2025-A363	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Friction Stir Welding of Cast Aluminum for Automotive Structures	Ji Hoon Jeon	University of Ulsan	Sung Tae Hong
84	PP1-084	PRESM2025-A372	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Effects of Process Parameters in Ti-6Al-4V Components Fabricated by Wire Arc Additive Manufacturing	SungHo Heo	BEES, Inc.	SungHo Heo
85	PP1-085	PRESM2025-A373	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Evaluation of Weldability Depending on Storage Conditions of Welding Rods in the HDPE Welding Process	Suseong Woo	Korea Institute of Industrial Technology	Jisun Kim
86	PP1-086	PRESM2025-A379	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Wear Behavior of TiO_2 Pack Cementation Coated Layer on Inconel 718 Built by Directed Energy Deposition	Ju-Won Yoon	Korea Maritime and Ocean University	Do-Sik Shim
87	PP1-087	PRESM2025-A383	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Optimizing Process Parameters Using Machine Learning and Finite Element Analysis to Enhance Dimensional Accuracy in Robot-based Large Object Additive Manufacturing	HongIl Kim	UNIST	Namhun Kim
88	PP1-088	PRESM2025-A391	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Electrochemical Deep-hole Drilling Using a Chained Ball Magnet Electrode	Shihyoung Ryu	Jeonbuk National University	Shihyoung Ryu
89	PP1-089	PRESM2025-A392	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Experimental Study of Micro Grinding of Soda Lime Glass Using Polycrystalline Diamond Tool	Bo Hyun Kim	Soongsil University	Bo Hyun Kim
90	PP1-090	PRESM2025-A414	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Processing Metallic GDLs for PEMFCs via Nanosecond and Femtosecond Laser Micro-perforation	Dawit Musse Yasin	Kongju National University	Dongkyoung Lee
91	PP1-091	PRESM2025-A420	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Orange Peel Prevention in Deep Drawing Process by Using Multi Draw Radius Technique	Kijima Ryu	Nippon Institute of Technology	Sutasn Thipprakmas
92	PP1-092	PRESM2025-A422	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Study on the Improvement of Wear Performance in Lubricated Environments through Surface Texturing by Directed Energy Deposition	Hyo-Jeong Kang	Korea Maritime and Ocean University	Do-Sik Shim
93	PP1-093	PRESM2025-A423	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Acoustic Recognition Bridging of Expert Intuition and Digital Systems for Enhanced Machining	Dong-Hyeon Jo	Gyeongsang National University	Su-Jin Kim
94	PP1-094	PRESM2025-A424	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Powder Flow Characteristics of Alumina and Brass Nozzle Tips in Directed Energy Deposition Process	Hong Seok Kim	Pusan National University	Sanghu Park
95	PP1-095	PRESM2025-A441	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	A Study on Robotic Arm-based Hybrid Manufacturing Process Combining Electrical Discharge Machining and Drilling	Su Yeon Kim	Kyungpook National University	Gyu Man Kim
96	PP1-096	PRESM2025-A442	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Additive Manufacturing Technology for the Fabrication of Catalyst Supports for Exhaust Gas Purification	Myung Pyo Hong	Korea Institute of Industrial Technology	Myung Pyo Hong
97	PP1-097	PRESM2025-A443	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	A Study on the Automation Model of Food Service Facilities Using Digital Twin-based Cooking Simulation	Hae Yong Yun	Korea Institute of Robotics and Technology Convergence	Hae Yong Yun
98	PP1-098	PRESM2025-A448	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Study on Estimation of Sample Size for Bayesian Zero-failure Reliability Testing of Machinery Parts Following Weibull Distribution	Jaesool Shim	Yeungnam University	Jaesool Shim
99	PP1-099	PRESM2025-A450	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Manufacturing of Pressure Vessels Using Composite Residual Stress Method for Improving Fatigue Life	Jong-Beom Park	Ilshin Autoclave	Jong-Beom Park
100	PP1-100	PRESM2025-A454	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Optimization of Process Parameters for Minimizing Torsion and Bending Deformations in the Extrusion Process of Vehicle Seat Rails	Jong Won Kim	Yeungnam University	Jin Ho Kim

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
101	PP1-101	PRESM2025-A458	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Investigation into Fatigue Characteristics of Cu-brazed Ultra-thin Stainless-steel Plates	Melkamu Tadesse Getachew	Pusan National University	Sang-Hu Park
102	PP1-102	PRESM2025-A463	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Analysis of Changes in Laser Ablation of Lithium Iron Phosphate according to the Changes in Relative Humidity	Myeong Ho Park	Kongju National University	Dongkyoung Lee
103	PP1-103	PRESM2025-A474	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Study on Hole Drilling in Aluminium Nitride Using Ultrashort Pulsed Laser	Seungeun Baek	Kongju National University	Dongkyoung Lee
104	PP1-104	PRESM2025-A480	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Analysis of Machining-induced Heat Generation Characteristics during Post-processing of Material Extrusion-based Additive Manufacturing	Yunseok Lee	Korea Institute of Industrial Technology	Jungsoo Nam
105	PP1-105	PRESM2025-A481	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	In-situ Multimodal Monitoring and Anomaly Detection in Additive Manufacturing Processes	Yewon Choi	Korea Institute of Industrial Technology	Jungsoo Nam
106	PP1-106	PRESM2025-A487	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Post-heat Treatment Strategies for Improving DED-manufactured Inconel 718: A Focus on Microstructure and Mechanical Properties	Yoon Sun Lee	Korea Institute of Industrial Technology	Da Hye Kim
107	PP1-107	PRESM2025-A488	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Composite Surface Roughness Parameter for Characterizing Contact Evolution in CMP	Jongmin Jeong	Pusan National University	Haedo Jeong
108	PP1-108	PRESM2025-A490	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	A Study on the Design of a Monitoring System for Die Micro-damage in Multi-stage Cold Forging Process	ARa Jo	Korea Institute of Industrial Technology	SunKwang Hwang
109	PP1-109	PRESM2025-A498	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Precise Robotic Drilling by Enhancing Friction Force of the Pressure Foot	Taehwa Hong	Korea Institute of Industrial Technology	Seong Hyeon Kim
110	PP1-110	PRESM2025-A502	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Design and Characterization of Thin-walled Ti-6Al-4V Microthrusters Fabricated Laser Powder Bed Fusion	Jeongrak Lee	POSTECH	Anna Lee
111	PP1-111	PRESM2025-A520	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Surface Treatments of Ausenitic Stainless-steel for Adhesive Bonding using Glass Frit	Jihong Hwang	Seoul National University of Science and Technology	Jihong Hwang
112	PP1-112	PRESM2025-A531	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	A Reinforcement Learning Algorithm for a Flexible Flow Shop Scheduling Problem with Autonomous Mobile Robot	Hong Jin Jeong	VMS Solutions	Jun Kim
113	PP1-113	PRESM2025-A532	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Development of a Simulation Model for an Electric Vehicle Lower Arm	Yong Jae Lee	Korea Institute of Industrial Technology	Ho-jin Lee
114	PP1-114	PRESM2025-A549	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	The Effect of Two-stage Processes on Low-temperature Nitrocarburizing	Sung Bo Heo	Korea Institute of Industrial Technology	Jun-Ho Kim
115	PP1-115	PRESM2025-A555	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Machine Learning Assisted Prediction of Stress-strain Curves in Injection-molded Polyamide-6 Composite Parts	Tae Hwan Kim	Sungkyunkwan University	Jong Hwan Suhr
116	PP1-116	PRESM2025-A558	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Optimization of Dry-electrochemical Polishing with Integrated Statistics and Machine Learning Considering Pulse Power Conditions	Seong Ung Kwak	Kunsan National University	Jeong Woo Park
117	PP1-117	PRESM2025-A559	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Magnetic Field-assisted Digital Lighting Processing for Tailored Composite Microstructures	Seung Hyun Kim	Sungkyunkwan University	Jong Hwan Suhr
118	PP1-118	PRESM2025-A574	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Study on Decarburization and Mechanical Properties of Ultra-low Carbon Steel by Improving the Lower Vessel of RH Degasser	Ji-Min Yun	Pukyong National University	Ki-Woo Nam
119	PP1-119	PRESM2025-A584	Regular	Poster III	Wednesday, 9 July	17:00-18:00	1. Manufacturing Processes	Friction-assisted Solid-state Lap Joining of Dissimilar Metal Tubes	Jae Yong Yang	University of Ulsan	Sung Tae Hong
120	PP2-001	PRESM2025-A005	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Geometric Errors Identification and Compensation of Cradle-type Axis Using Multilateration Measurement	Jun Lv	Shanghai Jiao Tong University	Zhengchun Du
121	PP2-002	PRESM2025-A015	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Weld Bead Recognition on Freeform Surface Using PointNet and Point Cloud Data	Chia-Yuan Wu	National Cheng Kung University	Chunhui Chung
122	PP2-003	PRESM2025-A023	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Correlation Analysis and Decision Tree-based Modeling of Chemical Vapor Deposition Process	Chien-Yao Huang	National Applied Research Laboratories	Chien-Yao Huang
123	PP2-004	PRESM2025-A051	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	The Measurement and Compensation of Thermal Error in the Dressing of Grinding Wheels for Gear Profile Grinding Machine Tools	Xuetao Wang	Shanghai Jiao Tong University	Zhengchun Du
124	PP2-005	PRESM2025-A164	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Development of a DLP-based Magnetic Material Additive Manufacturing System	Mijin Kim	Korea Institute of Machinery & Materials	Pil-Ho Lee
125	PP2-006	PRESM2025-A218	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	A Study on Anomaly Detection Techniques for Wave Generator Bearing Life Analysis	Sang-Wook Park	Korea Institute of Industrial Technology	Jin-Seok Jang

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
126	PP2-007	PRESM2025-A219	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	A Study on Rotor Dynamics Modeling based on Modal Test for High-speed Motor Rotor-bearing Systems in Electric Vehicles	Ji Min Hwang	Korea Institute of Industrial Technology	Jin Seok Jang
127	PP2-008	PRESM2025-A254	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Self-identification of Geometric Error in CNC Turning Center Using a Novel Servo-based Tool-workpiece Contact Detection Method	Taichi Kusatsugu	Nagoya University	Kyungki Lee
128	PP2-009	PRESM2025-A261	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Tool Condition Monitoring based on Artificial Intelligence Model with Time-series Data Using Transfer Learning	Kang Seok Kim	Pusan National University	Kang Seok Kim
129	PP2-010	PRESM2025-A297	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Multi-sensor Based Tool Condition Monitoring and Machining Quality Evaluation in Titanium Alloy Milling Process	SangHyeon Bae	Korea Institute of Industrial Technology	SungRyul Kim
130	PP2-011	PRESM2025-A334	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	AI-Driven Safety Monitoring Using CCTV for Hazard Assessment in Industrial Environments	Jeong-Gon Kim	Korea Institute of Industrial Technology	Jin-Seok Jang
131	PP2-012	PRESM2025-A335	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Study on Identifying Machining Center Insert Length for Machining Process Analysis based on Cutting Tool Geometry	Jun Hyun Jo	Korea Institute of Industrial Technology	Jin Seok Jang
132	PP2-013	PRESM2025-A371	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Development of Real-time Auxiliary Device Control for Energy Reduction in Machine Tools and Machine Learning-based Energy Consumption Prediction Technology	Donghyuk Park	Korea Institute of Industrial Technology	Jaehak Lee
133	PP2-014	PRESM2025-A428	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Development of the PLC and Sensor-based Integrated Monitoring System for Complex Grinding Processes	Jae Hyeok Kim	Korea Institute of Industrial Technology	Young Jae Choi
134	PP2-015	PRESM2025-A434	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Transmission Error Improvement of Double Enveloping Worm Gear Reducer for Electric Turret Application	Jong Bae Lee	Korea Institute of Machinery & Materials	Back Ju Sung
52	PP2-016	PRESM2025-A245	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	CFD Simulation of Internal Flow Dynamics in CD-SEM Load-lock and Main Chambers	ChunMuk Jo	Kangwon National University	YoungHo Seo
136	PP2-017	PRESM2025-A509	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	IoT-based Intelligent Fixture Maintenance System	Jinseob Shin	Kangwon National University	Byeong Hee Kim
137	PP2-018	PRESM2025-A517	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Development of a Digital Twin-based Robot Utilization Solution to Improve the Productivity of Machine Tools	Ki-hyeong Song	Korea Institute of Industrial Technology	Ki-hyeong Song
138	PP2-019	PRESM2025-A551	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Estimation of the Squareness Error of the Shaft in the Hydrostatic Bearing Spindle	Hyun Soo Kim	Korea Institute of Machinery & Materials	Chun-Hong Park
139	PP2-020	PRESM2025-A564	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	On-machine Measurement of Kinematic Errors in 5-Axis Machine Tools Using 3D Laser Snapshot Sensor	Hee-Min Shin	Yonsei University	Byung-Kwon Min
140	PP2-021	PRESM2025-A565	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Machining Parameter Optimization for Energy Reduction in CNC Milling with Varying Material Removal Conditions	Wontaek Song	Yonsei University	Byung-Kwon Min
141	PP2-022	PRESM2025-A566	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Online Machine Tools Collision Detection Algorithm Integrated with CNC	Joon-Soo Lee	Yonsei University	Byung-Kwon Min
142	PP2-023	PRESM2025-A567	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	FEA-based Evaluation of Volumetric Error in Machine Tools with Different Configurations Under Ambient Temperature Fluctuations	SeungMin Jeong	DN Solutions	Byung-Kwon Min
143	PP2-024	PRESM2025-A568	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Machining Process Planning Model based on Graph Transformer	In-Wook Oh	Yonsei University	Byung-Kwon Min
144	PP2-025	PRESM2025-A577	Regular	Poster I	Monday, 7 July	16:50-17:50	2. Machine Tools & Systems	Study on the Effect of Roller Profiles on the Characteristics of Crossed Roller Bearings	Gilbert Rivera	Kumoh National Institute of Technology	Seong-Wook Hong
145	PP3-001	PRESM2025-A008	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Design of a Measurement System for the Radius of Curvature, Thickness, and Refractive Index of Spherical Transparent Materials	Chien-Sheng Liu	National Cheng Kung University	Chien-Sheng Liu
146	PP3-002	PRESM2025-A010	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Design and Performance Evaluation of a Firefighting Flying Robot	Thien-Dinh Nguyen	Pukyong National University	Young-Bok Kim
147	PP3-003	PRESM2025-A011	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Experimental Study on Altitude Motion Control of an Aerial Robot Powered by Water-jet	Cao-Tri Dinh	Pukyong National University	Young-Bok Kim
148	PP3-004	PRESM2025-A016	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	3D Reconstruction of Weld Bead Profiles Using Binocular Vision	Zi-Yi Yang	National Cheng Kung University	Chunhui Chung
149	PP3-005	PRESM2025-A024	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Advanced Optimization Algorithms for Raman Spectral Quality Control in Chemical Vapor Deposition	Chung-Ying Wang	National Applied Research Laboratories	Chien-Yao Huang
150	PP3-006	PRESM2025-A025	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Deep-learning Based Normalizing One-frame Phase Demodulation Method for Real-time Interferometric Measurement	Juncheol Bae	Pusan National University	Yangjin Kim

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
151	PP3-007	PRESM2025-A038	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Novel Gripper Design for Efficient Handling of Curved Cylindrical Objects in Automated Processes	SeongHyeon Won	Korea University	Daehie Hong
152	PP3-008	PRESM2025-A040	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Hardware Measurement-based Modeling and Simulation of Fast Steering Mirror with Hysteresis and Coupled Dynamics	Hyo Geon Lee	Yonsei University	Jun Young Yoon
153	PP3-009	PRESM2025-A042	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Flicker-free LED Driver Design for Fourier Ptychographic Microscopy	Byong Hyuk Chon	Korea Research Institute of Standards and Science	Hee Kyung Ahn
154	PP3-010	PRESM2025-A053	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Detection of Gas Leakage from Pipeline Sound Data Using Variational Autoencoder	Nehemiah Joel Balozi	Sungkyunkwan University	Hyungpil Moon
155	PP3-011	PRESM2025-A054	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Anomaly Detection in Industrial Pipelines Using Thermal and RGB Images	Jenipher Siriwa	Sungkyunkwan University	Hyungpil Moon
156	PP3-012	PRESM2025-A074	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Gain-Scheduled Feedforward-feedback Control for Reducing Lateral Acceleration and Jerk of Vehicle during Lane Changing Maneuver	Chang Hwan Kim	Yonsei University	Jun Young Yoon
157	PP3-013	PRESM2025-A080	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Dynamic Deflectometry for Real-time 3D Surface Measurement	Young-Sik Ghim	Korea Research Institute of Standards and Science	Young-Sik Ghim
158	PP3-014	PRESM2025-A082	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Design and Analysis of Stiffness-tunable 2-DOF XY Stage with Enhanced Force Density	Dong Hyeon Park	Yonsei University	Jun Young Yoon
159	PP3-015	PRESM2025-A083	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Vision-Based Contact Detection Method for ERCP Cannulation	Yong Jung Lee	Korea University	Daehie Hong
160	PP3-016	PRESM2025-A087	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Affordance-based Object Grasping Pose Estimation with Active Learning	KwangEun Ko	Korea Institute of Industrial Technology	KwangEun Ko
161	PP3-017	PRESM2025-A114	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	AI-Assisted Search for Industrial Components Using a Local Database and Large Language Models	Sagi Amangeldi	Korea Institute of Industrial Technology	Dong-Hyun Kim
162	PP3-018	PRESM2025-A117	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	High Numerical Aperture Spherical Concave Mirror (NA 0.92) Testing using a Computer-generated Hologram	Ma. Angela Lourdes B. Lequiron	University of Science and Technology	Hagyong Kihm
163	PP3-019	PRESM2025-A120	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of Mixed Reality ViLS-based HMI Evaluation Platform for Automated Vehicle	Hun Lee	Korea Automotive Technology Institute	SunHong Park
164	PP3-020	PRESM2025-A130	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Areal Chromatic Confocal Sensor	Jisoo Oh	Chosun University	Ki-Nam Joo
165	PP3-021	PRESM2025-A131	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Possibility of Spectral Interferometer for Evaluating an Optical Spectrometer	Seoyoon Lee	Chosun University	Ki-Nam Joo
166	PP3-022	PRESM2025-A137	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Study on Fault Diagnosis Algorithm and Anomaly Signal Generation Using Ensemble Learning	Ji-Wook Kim	Korea Institute of Industrial Technology	Jin-Seok Jang
167	PP3-023	PRESM2025-A139	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Design and Control of Tilting Mechanism with 3D Printed Flexure Hinge and Voice Coil Motor	Moon Gu Lee	Ajou University	Moon Gu Lee
168	PP3-024	PRESM2025-A145	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Signal Characteristics and Compensation Method according to Temperature Changes in OES	Youngjun Yuk	Korea Institute of Industrial Technology	Kihyun Kim
169	PP3-025	PRESM2025-A155	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Comparative Study on Fretting Wear Mechanism based on Stroke Distance Waveforms	Min Jun Kim	Korea Institute of Industrial Technology	Inkang Heo
170	PP3-026	PRESM2025-A165	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Welding Line Recognition Method Based on 3D Point Cloud	Eun Jin Han	Kumoh National Institute of Technology	Ki Youn Kwon
171	PP3-027	PRESM2025-A166	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Interference Check Method for Ship Block Welding Using Robot Swept Shape	Dae Jin Jeong	Kumoh National Institute of Technology	Ki Youn Kwon
172	PP3-028	PRESM2025-A191	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Study on the Effective Factor of the TOR (Take-over Request) Algorithm for Autonomous Vehicles through Vehicle to Infrastructure Communication and Real-road Field Operational Tests	Dong Whan Lee	Korea Automotive Technology Institute	Seong-Jin Kwon
173	PP3-029	PRESM2025-A192	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A 3D Scanner and Manipulator-based Environmental Recognition Method for Teleoperated Live-line Maintenance on Overhead Distribution Lines	Siheon Jeong	Hanyang University	Ki-Yong Oh
174	PP3-030	PRESM2025-A193	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Optimization of an Indoor Positioning System for Automated Valet Parking Systems Using Front and Rear Cameras with Fiducial Marks	Youngwoo Lee	Hyunbo Co.	Moonsik Kim
175	PP3-031	PRESM2025-A194	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Mobile Robotic System for Complex Welding Tasks	Van-Tung Ha	University of Ulsan	Jaeyoul Lee

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176	PP3-032	PRESM2025-A196	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a Fire Safety System for Large-Area Compressed Hydrogen Storage Devices	Jae-Chul Lee	Korea Institute of Industrial Technology	Jae-Chul Lee
177	PP3-033	PRESM2025-A228	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a 2-DOF Steerable Knife for Endoscopic Surgery	ChanWoo Kim	Korea University	Daehie Hong
178	PP3-034	PRESM2025-A230	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Generating Abnormal Images to Address Data Scarcity in the Finishing Mill Process	Taehan Lee	POSTECH	Sang Woo Kim
179	PP3-035	PRESM2025-A232	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A 3D Perception Sensor based on Multiple Ultrasonic MEMS Microphones for Vehicle Applications	Dong-Hee Yi	Hyunbo Co.	Suk Chan Kim
180	PP3-036	PRESM2025-A233	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	High Resolution white Light Scanning Interferometry Using Structured Illumination	Minseo Cho	Chosun University	Ki-Nam Joo
181	PP3-037	PRESM2025-A244	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Adaptive Exploration-return Strategy for Time-constrained Robotic Exploration	Seohyeon Jeon	Sejong University	Seonghan Kim
182	PP3-038	PRESM2025-A249	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of Complex Driving Scenarios for CAV Safety Testing	Wooyoung Jang	Korea Intelligent Automotive Parts Promotion Institute	Taehee Lee
183	PP3-039	PRESM2025-A251	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Lateral Shearing Interferometry for the Surface Metrology of Large Optical Systems	Seongwook Jang	Chosun University	Ki-nam Joo
184	PP3-040	PRESM2025-A252	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	3D Object Detection Optimization through Depth Estimation-based Point Cloud Interpolation	Dongjun Kim	Sejong University	Seonghan Kim
185	PP3-041	PRESM2025-A255	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Applying Geometric Fitting Methods for Geometric Error Measurement and Precision Compensation in Five-axis Machine Tools	Ting-Hua Zhang	National Taiwan University	Meng-Shiun Tsai
186	PP3-042	PRESM2025-A259	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Global Pose Estimation of a Motor Grader Blade through Kinematics and IMU Fusion	Jihun Kim	Korea University	Daehie Hong
187	PP3-043	PRESM2025-A264	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	AI-assisted Gripping Point Recommendation for Enhanced Visualization in Robotic Endoscopic Submucosal Dissection	MyungIn Jin	Korea University	Daehie Hong
188	PP3-044	PRESM2025-A273	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Achievement of Low-resistance Joints of Differently Processed REBCO Coated Conductor Tapes Using Ultrasonic Welding Method	Hyung-Seop Shin	Andong National University	Hyung-Seop Shin
189	PP3-045	PRESM2025-A292	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a Gravity Compensation Device for Large Optical Mirrors	SangMun Kim	Andong National University	SangHeon Lee
190	PP3-046	PRESM2025-A293	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a Pose Adjustment and Deployment System for Segmented Mirrors in Space	SangHeon Lee	Gyeongkuk National University	SangHeon Lee
191	PP3-047	PRESM2025-A304	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Improving Accuracy of 6D Object Pose Estimation through Multi-view Scanning with Stationary and Mobile Cameras	Pung Kyu Lee	KAIST	Huitaek Yun
192	PP3-048	PRESM2025-A316	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Design of a Teleoperated Surgical Tool Manipulation Robot for ERCP	Woocheol Shin	Korea University	Daehie Hong
193	PP3-049	PRESM2025-A318	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Optimization of Optical System for Micro-spot Mueller Matrix Spectroscopic Ellipsometer using Reflective Objectives	Seonile Seo	Chosun University	Ki-Nam Joo
194	PP3-050	PRESM2025-A338	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	PLC Dataset Augmentation for Vision-language Model Converting Different Programming Types	Yoonji Chae	Kyung Hee University	jumyung um
195	PP3-051	PRESM2025-A347	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Disturbance Rejection and Robust Tracking Using a Compound Control Approach for RFC Linear Motor Motion Stage	Kyung Ho Yang	Soongsil University	Hyeong-Joon Ahn
196	PP3-052	PRESM2025-A350	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a High-precision Endoscopic Surgical Robot with a Novel Joint Mechanism for Enhanced Accuracy in Endoscopic Submucosal Dissection	Jangwon Lee	Korea University	Daehie Hong
197	PP3-053	PRESM2025-A353	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of Autonomous Mobile Robots for Manufacturing Processes	Dayeon Yang	Korea Institute of Industrial Technology	Chanyoung Ju
198	PP3-054	PRESM2025-A376	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Research on Safety Monitoring System based on Quadruped Robot and Digital Twin Technology	Chae-Wook Jeon	Dong-Eui University	Seung-Ho Ok
199	PP3-055	PRESM2025-A382	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	FOUP-based Real-time Monitoring and Alignment Correction for Wafer Transfer in Semiconductor Manufacturing	Youngkyoung Ji	Tech University of Korea	Hyo-Young Kim
200	PP3-056	PRESM2025-A384	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Short-term Drowning Victim Trajectory Prediction Model Based on the Coupling of Kelvin Ship Waves and Wind Fields	Yang Zhao	Pukyong National University	Kyung-Chang Lee

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
201	PP3-057	PRESM2025-A388	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Study on Anomaly Detection Monitoring System for IONIC Piston Hydrogen Compressor	Myoung-Won Kim	Pukyong National University	Kyung-Chang Lee
202	PP3-058	PRESM2025-A394	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Truck Overload Detection Test and Evaluation using High-speed Weigh-in-motion on Public Road	Hakgeun Kim	Kunsan National University	Kiweon Kang
203	PP3-059	PRESM2025-A415	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Innovative Inspection Method for the Jetting Status of Inkjet Printheads in High-precision Inkjet Systems	Dong-Youn Shin	Pukyong National University	Dong-Youn Shin
204	PP3-060	PRESM2025-A453	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Study on AI-based Drill System Unmanned Operation and Anomaly Detection Techniques	Euichul Jeong	Korea Institute of Industrial Technology	Seokkwan Hong
205	PP3-061	PRESM2025-A457	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of a Test Bench for Durability Performance Verification of TBM Thrust Jack for Helical Segments	Min Gi Cho	Korea Institute of Industrial Technology	Jung Woo Cho
206	PP3-062	PRESM2025-A460	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of Temperature Monitoring System for Solvent Evaporation Process in Chamber	Jinhyuk Lee	PILETA Co., Ltd.	Jinhyuk Lee
207	PP3-063	PRESM2025-A462	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Smartphone-based Fluorescence Detection for Particle-based Immunoassays: Position-based Encoding and Multiplexing Potential	Sanghyun Lee	Korea Maritime and Ocean University	Seonghyeon Kim
208	PP3-064	PRESM2025-A468	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Development of Temperature Monitoring System for Solvent Evaporation Process in Chamber	Jaehyun Park	Korea Institute of Industrial Technology	Seungtaek Kim
209	PP3-065	PRESM2025-A475	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Enhancing Worker Safety Through Projector-based Visualization of Collaborative Robot Trajectories	Jaemin Lee	Korea Testing Laboratory	DongHyeok Lee
210	PP3-066	PRESM2025-A494	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Impact of Driver Characteristics and Environmental Conditions on HOD System Adaptability	Daewon Kim	Daegu Gyeongbuk Institute of Science and Technology	Seonghun Lee
211	PP3-067	PRESM2025-A516	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Analysis of NVH Performance Improvement in Sensorless PMSM Drives under Magnetic Saturation	Gwangmin Park	Daegu Gyeongbuk Institute of Science and Technology	Gwangmin Park
212	PP3-068	PRESM2025-A523	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	Accuracy Analysis of a 6-axis Serial Robot Through Circular Path Test	Kwang-Il Lee	Kyungil University	Seung-Han Yang
213	PP3-069	PRESM2025-A579	Regular	Poster III	Wednesday, 9 July	17:00-18:00	3. Automation, Measurement & Control	A Study on the Method of Analog Content recognition at Multiple Points for Educational Devices	Eun Ho Kim	Korea Institute of Industrial Technology	Eun Ho Kim
214	PP4-001	PRESM2025-A002	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fatigue Life Analysis of Graphene-reinforced Next-generation Wind Turbine Blade using BEMT	Jin-Rae Cho	Hongik University	Jin-Rae Cho
215	PP4-002	PRESM2025-A036	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	CFD Analysis of Thermal Runaway Behavior in Battery Case with and without Flame Retardant Application	HyunSoo Kim	Korea Institute of Industrial Technology	SungWook Kang
216	PP4-003	PRESM2025-A047	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Drop Weight Impact Analysis for Durability Validation of Electric Vehicle Battery Pack Case	MinGoo Cho	Korea Institute of Industrial Technology	JaeWoong Kim
217	PP4-004	PRESM2025-A048	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Development of a Soft Gripper Featuring Dual-grasp Mechanisms	Se Jin Park	Kangwon National University	Yong-Jai Park
218	PP4-005	PRESM2025-A068	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	A Systematic Approach to Extracting Design Requirements from the ASME Code for Product Manufacturing	Junho Kim	Korea University	Duhwan Mun
219	PP4-006	PRESM2025-A076	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Rapid Analytical Modeling of Interior Permanent Magnet Synchronous Motor Using Radial Segmentation	Ji Won Han	Yonsei University	Jun Young Yoon
220	PP4-007	PRESM2025-A078	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Structural Optimization of Flexures in a Deformable Mirror for Adaptive Optics	Pilseong Kang	Korea Research Institute of Standards and Science	Hyug-Gyo Rhee
221	PP4-008	PRESM2025-A081	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Engineering Failure Characteristics in Dissimilar Material FDS joints Considering the Effects of Various Loading Angles	DongGun Kim	Korea Institute of Industrial Technology	JungHan Song
222	PP4-009	PRESM2025-A099	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fracture Prediction of High Strength Steel based on Local Strain	JongBong Kim	Seoul National University of Science and Technology	Hyunho Shin
223	PP4-010	PRESM2025-A107	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Mechanical Behavior of Clavicle Bones Reinforced with Titanium Plates: FEM Analysis	Youngkyun Son	Korea Institute of Industrial Technology	Dong-hyun Kim
224	PP4-011	PRESM2025-A134	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Thermal Analysis on Deformable Mirror for High Power Laser Applications	Jaehyun Lee	Korea Research Institute of Standards and Science	Hyug-Gyo Rhee
225	PP4-012	PRESM2025-A146	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Spark Plasma Sintering of Si3N4 for Ceramic Cutting Tools by Tailoring of Additive and Microstructure	Jin Han Kim	Cheomdanlab Inc.	Jeong Han Lee

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
226	PP4-013	PRESM2025-A156	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fatigue and Wear Behavior of Aerospace Bearing Material Under Rolling Contact Fatigue Test	Youngho Kim	Korea Institute of Industrial Technology	Jaeil Jeong
227	PP4-014	PRESM2025-A158	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Tensile and Fatigue Properties of SEN6 Magnesium Alloy Under Different Extrusion Conditions	Sung Hyuk Park	Kyungpook National University	Sung Hyuk Park
228	PP4-015	PRESM2025-A159	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Design of Linear Transverse Flux Machine with Bi-directional Silicon Steel Lamination	Bo Min Kang	Yonsei University	Jun Young Yoon
229	PP4-016	PRESM2025-A185	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Sensitivity of Turbine Blade Temperature and Life to Incidence Angle Variation	Junseok Yoon	Korea Institute of Materials Science	Byunghui Kim
230	PP4-017	PRESM2025-A189	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Artificial Neural Network Model to Predict Sensing Performance of Stretchable Piezoelectric Strain Sensors	Yujun Song	Dankook University	Ji-Hyeon Song
231	PP4-018	PRESM2025-A217	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Study on Optimal Design Method for Lightweight Crawler Crane Lattice Boom Using MFBD Simulation	Ji Su Jeong	Korea Institute of Industrial Technology	Jin Seok Jang
232	PP4-019	PRESM2025-A227	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Design Optimization of TPMS-based Airless Tires with Asymmetric Rolling Resistance	Seoyoon Kim	Seoul National University of Science and Technology	Keun Park
233	PP4-020	PRESM2025-A240	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fatigue Life Prediction of Composite-steel Bonded Joints with Experimental Calibration Method	Hee-Chan Song	Yonsei University	Heoung-Jae Chun
234	PP4-021	PRESM2025-A242	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Characteristics of Tin Dioxide Thin Films Grown on Quartz Substrates by Atomic Layer Deposition	Yu-Wei Wu	National Pingtung University	Wen-Jen Lee
235	PP4-022	PRESM2025-A247	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Comparative Analysis of Non-porous and Porous Structures for Enhanced Mechanical Performance Using Polymer-epoxy Composites	Naye Jang	Changwon National University	Young Tae Cho
236	PP4-023	PRESM2025-A276	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Modeling Relationship between Tempering Process-microstructure-property based on Deep Learning for Steel Material	Jun Woo Kang	Korea Institute of Materials Science	Seong-Hoon Kang
237	PP4-024	PRESM2025-A299	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Thermo-mechanical Performance Analysis with Coolant Inlet Hole Shape Changing of Gas Turbine Combustion Liner Internal Cooling System	Heungsoo Park	Seoul National University of Science and Technology	Nak-Kyun Cho
238	PP4-025	PRESM2025-A306	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	ANN-based Probabilistic Analysis Framework for 3D Printed Structural Components considering Manufacturing Uncertainties	Jinmyeong Heo	Seoul National University of Science and Technology	Nak-Kyun Cho
239	PP4-026	PRESM2025-A307	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Predicting Elastic Shakedown Limits of 90° Back-to-back Pipe Bends with Local Wall Thinning Using Neural Networks	JooHyeong Park	Seoul National University of Science and Technology	Nak-Kyun Cho
240	PP4-027	PRESM2025-A310	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Machine Learning Based Conversion Framework from Generative Design into Manufacturing Drawing	Seokbeom Chun	KAIST	Huitaek Yun
241	PP4-028	PRESM2025-A321	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fabrication of Carbon Grid Structures by Carbonization of 3D Printed Parts for Fuel Cells	HyunChul Kim	Kongju National University	HyunChul Kim
242	PP4-029	PRESM2025-A324	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Development of a Quantitative Evaluation Method for Scratch Resistance of Polymeric Materials	Byunghyun Kang	Korea University	Byoung-Ho Choi
243	PP4-030	PRESM2025-A329	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Carbon Fiber Based Resistive Heating Composite with 3D Printing Method	Yun Jae Hwang	UNIST	Hyung Wook Park
244	PP4-031	PRESM2025-A330	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Bonder Head Design for Improved Flip Chip Bonding Precision	AnMok Jeong	Korea Institute of Industrial Technology	JaeHyun Park
245	PP4-032	PRESM2025-A385	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Computational Methods for Assessing Bendability in the Flat-wire Winding Process for Axial Flux Permanent Magnet Motors	Jong-Hwa Hong	Korea Institute of Materials Science	Jong-Hwa Hong
246	PP4-033	PRESM2025-A395	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Analysis of Interlaminar Fracture Toughness of Composites of Pultrusion Spar cap for Improving Reliability of Large Wind Turbine Blades	Haksoo Kim	Kunsan National University	Kiweon Kang
247	PP4-034	PRESM2025-A398	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Highly Efficient Photo-acid Generators for High-resolution Semiconductor Patterning	Jun Choi	Korea Institute of Industrial Technology	Jun Choi
248	PP4-035	PRESM2025-A408	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Machine-learning Estimation of Low-cycle Fatigue Behavior of Anisotropic Metals	Taekyung Lee	Pusan National University	Taekyung Lee
249	PP4-036	PRESM2025-A435	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Tribological Behavior and Microstructural Evolution of As-cast FCD700 Ductile Cast Iron with Different Cu Contents	Jaegu Choi	Korea Institute of Industrial Technology	Jaegu Choi
250	PP4-037	PRESM2025-A436	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	The Effects of Bismuth Addition on the Characteristics of Aluminum Alloys for Valve Body	Gun Ho Ko	Seoul National University	Sang Il Yoon

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
251	PP4-038	PRESM2025-A437	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Mechanical Behavior and Deformation Mechanisms of Hot-forged 304L Stainless Steel in Cryogenic Environments	Gang Ho Lee	Korea Institute of Industrial Technology	Byung Jun Kim
252	PP4-039	PRESM2025-A438	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Influence of Heat Treatment on the Cryogenic Mechanical Behavior and Microstructure of Hot-forged High-manganese Steel	Gang Ho Lee	Korea Institute of Industrial Technology	Byoungkoo Kim
253	PP4-040	PRESM2025-A439	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Post-weld Heat Treatment Characteristics of Laser Welded Boron-containing Stainless Steel	Joonghoon Kim	Korea Institute of Industrial Technology	Byoungkoo Kim
254	PP4-041	PRESM2025-A440	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Formation of Fine-equiaxed Grains in Inconel 718 Deposited by Directed Energy Deposition via Zirconia Nano-powder Inoculation	Jong Bae Jeon	Dong-A University	Jong Bae Jeon
255	PP4-042	PRESM2025-A446	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Coordination-regulated Li+ Transport in La@ZIF-8 for High-performance Quasi-solid Electrolytes	Yini Chen	Yeungnam University	Tae Jo Ko
256	PP4-043	PRESM2025-A449	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Evaluation of Homogeneity of Single-crystal Calcium Fluoride Optical Windows Using DUV Interferometry	Jae-Hyuck Choi	Korea Research Institute of Standards and Science	Jae-Hyuck Choi
257	PP4-044	PRESM2025-A472	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Effect of Directly Introduced Y2Ti2O7 Pyrochlore Oxides in Oxide Dispersion Strengthened Alloys for High Temperature Applications	Yuhan Lu	Pukyong National University	Sanghoon Noh
258	PP4-045	PRESM2025-A473	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fabrication and Characterization of Oxide Dispersion Strengthened Tungsten Alloys for Fusion Reactor Applications	Deasik Kim	Pukyong National University	Sanghoon Noh
259	PP4-046	PRESM2025-A477	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Investigation of Adsorption Performance of CO2 for RIS with Lattice Structure Using Fluid Structure Interaction Simulation	JongChan Beom	Chosun University	Dong-Gyu Ahn
260	PP4-047	PRESM2025-A478	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Bio-inspired Lattice Unit Cell Design for Enhanced Crash Energy Absorption	Muh Arif Wisnuaji	POSTECH	Anna Lee
261	PP4-048	PRESM2025-A493	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Thickness-Accommodating Method for Multi-configurable Thick Origami with Bidirectional Folding	Duwon Yang	POSTECH	Anna Lee
262	PP4-049	PRESM2025-A508	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Flow Fluctuation Control via Zero-stiffness and Bulging Instabilities in Hyperelastic Shells	Jinwoo Lee	POSTECH	Anna Lee
263	PP4-050	PRESM2025-A514	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Synthesis and Performance Evaluation of Dual-Doped LaxNiyMn2-(x+y)O3/g-C3N4 Nanocomposites for Asymmetric Supercapacitor Applications	Naveed Ullah	Kyungpook National University	Gyu Man Kim
264	PP4-051	PRESM2025-A515	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Modification of Naturally Derived Biomaterial for Enhanced Integration with Synthetic Polymer	Min Ku KIm	Hanyang University	Min Ku KIm
265	PP4-052	PRESM2025-A525	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Structural Optimization of Spring Contact Connectors Using Full Factorial Design and Finite Element Analysis	Minwook Park	Seoul National University of Science and Technology	Seunghyun Lee
266	PP4-053	PRESM2025-A526	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fatigue Characteristics of Recycled Carbon Fiber Reinforced Plastic at Elevated Temperatures	Sangjun Jeon	Kongju National University	Daejong Yang
267	PP4-054	PRESM2025-A527	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Design of High-strength Dual Cure Resin for Digital Light Processing	Hae-Jin Choi	Chung-Ang University	Hae-Jin Choi
268	PP4-055	PRESM2025-A530	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Study on the Correlation between Process Conditions and Mechanical Properties of 3D Tow Insert Injection Molded Specimens	Yongdae Kim	Korea Institute of Industrial Technology	Jeongwon Lee
269	PP4-056	PRESM2025-A536	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Tensile properties of Gadolinium Oxide Dispersion Strengthened Austenitic Stainless Steels for Neutron Absorbing Structural Components	Sejin Kim	Pukyong National University	Sanghoon Noh
270	PP4-057	PRESM2025-A537	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Effect of Composite Material Functionalized Surfaces on Copper Substrates in Enhancing Pool Boiling Heat Transfer	Jhao-Yu Guo	Tamkang University	Jhao-Yu Guo
271	PP4-058	PRESM2025-A539	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Fatigue Life Assessment of Hydrogen Pressure Vessels Considering Crack Orientation and Pressure Variations	Ha-Young Choi	Dongyang Mirae University	Seunghyun Cho
272	PP4-059	PRESM2025-A540	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Autonomously Discovered Metamaterials with Tailored Near-zero Poisson's Ratio for Enhanced Interface Force in Nonlinear Soft Grippers	BaekGyu Kim	Pusan National University	Sang Min Park
273	PP4-060	PRESM2025-A542	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Machine Learning-driven Inverse Design of Metamaterial Sensors for Tailoring Vibration Reduction and Signal Detection	Jigyo Park	Pusan National University	Sangmin Park
274	PP4-061	PRESM2025-A547	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Deep Generative Model-based Optimization and Inverse design of Ventilated Acoustic Metamaterials	Sang Min Park	Pusan National University	Sang Min Park
275	PP4-062	PRESM2025-A554	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Prediction of Interface Morphologies in Copper-clad Aluminum Wires Using a Deep Learning-based Generative Framework	Hyeon-Jun Kim	Korea Institute of Materials Science	Young-Seok Oh

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
276	PP4-063	PRESM2025-A557	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Optimal Design of Strength for Helical Gear Used in Driving Module of Automatic Tapping Device	Sungmin Moon	Gyeongsang National University	Sungki Lyu
277	PP4-064	PRESM2025-A561	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Study on The Prediction Model for Friction and Noise Characteristics by Tire Tread Compound and Block using Friction Master Curve Modeling	Yoon Jin Chang	Sungkyunkwan University	Jonghwan Suhr
278	PP4-065	PRESM2025-A562	Regular	Poster I	Monday, 7 July	16:50-17:50	4. Materials & Design	Effect of Polyol Composition on the Long-term Durability of Urethane Rubber for Precision Electronic Applications	Lee Jae-Ryong	Pusan National University	Huh PilHo
279	PP5-001	PRESM2025-A022	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Enhancing Direct-spun CNT yarn for Artificial Muscles via Conductive Polymer Coating	Shi Hyeong Kim	Korea Institute of Industrial Technology	Shi Hyeong Kim
280	PP5-002	PRESM2025-A032	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Design and Fabrication of Fresnel Zone Plate with an Enhanced Depth of Focus by Using a Direct Laser Lithography	Hyug-Gyo Rhee	Korea Research Institute of Standards and Science	Hyug-Gyo Rhee
281	PP5-003	PRESM2025-A039	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Flexible Self-cleaning Janus Emitter-based Transparent Radiative Cooling for Enclosed Spaces	Harit Keawmuang	POSTECH	Junsuk Rho
282	PP5-004	PRESM2025-A064	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Simplified Method for Fabricating Superhydrophobic Surfaces with Water Vapor Condensation	Jeong Han Kang	Dong-A University	Sungho Lee
283	PP5-005	PRESM2025-A102	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Thermal Characterization of a Molybdenum Thin Film Influenced by Rapid Thermal Annealing Using Laser-ultrasonic Technique	Junhyung Lee	Chungnam National University	Yun Young Kim
284	PP5-006	PRESM2025-A122	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	The Effects of Ultrasonic Vibration during Laser Induced Deep Etching Process	Hyeong Seok Song	Seoul National University of Science and Technology	Min-soo Park
285	PP5-007	PRESM2025-A123	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Synthesis and Analysis of Pani/MoS2 for the Photocatalytic Degradation and Adsorption of Chromium (VI)	Miyeon Shin	Jeonbuk National University	Changho Yu
286	PP5-008	PRESM2025-A129	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Preparation of Upconversion Nanoparticles for Photodynamic and Photothermal Cancer Therapy	Dae-Duk Kim	Seoul National University	Dae-Duk Kim
287	PP5-009	PRESM2025-A151	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Designing Magnetically-retrievable Depolymerization Catalysts for Waste PET	Geon Dae Moon	Korea Institute of Industrial Technology	Geon Dae Moon
288	PP5-010	PRESM2025-A153	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Development of HA Composite Coating with Uniform and Controlled Degradation via Electrodeposition for Surface Modification of Magnesium Mini-plates	Seo Yeon Lee	Jeonbuk National University	Chan Hee Park
289	PP5-011	PRESM2025-A154	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Effect of Alkyl Chain Length on the Tribological Performance of Functionalized CNT Additives in PAO6 Base Oil	Jaesang Yoo	Korea Institute of Industrial Technology	Jong-Hyoung Kim
290	PP5-012	PRESM2025-A161	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Thermally Switchable Shape Memory Polymer Dry Adhesive with Tunable Glass Transition Temperature	Han Jun Park	Kyungpook National University	Moon Kyu Kwak
291	PP5-013	PRESM2025-A183	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Anthocyanin-loaded pH-responsive Nanofiber Membrane based on Polyvinyl Alcohol/Chitosan for Real-time Monitoring of Food Spoilage	Bong-Kee Lee	Chonnam National University	Bong-Kee Lee
292	PP5-014	PRESM2025-A205	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Multi-functional Pillar-patterned Surface for Osteoblast Differentiation and Anti-bacterial Effects	Nae-Un Kang	Wonkwang University	Young-Sam Cho
293	PP5-015	PRESM2025-A213	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Plastic Flow Enhancement in the Fabrication of Groove-with-protrusion Structures by Ultrasonic Vibration-assisted Burnishing	Asuka Otani	Keio University	Jiwang Yan
294	PP5-016	PRESM2025-A216	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Fabrication of Magnetic Swimmer Robots via Poisson Effect-assisted Replication Lithography	Minsu Kim	Kyungpook National University	Moon Kyu Kwak
295	PP5-017	PRESM2025-A263	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Scalable Manufacturing of Precision Surface Structures via Hot Embossing on Porous Polymer Film	Yoon Sick Eom	KAIST	Sanha Kim
296	PP5-018	PRESM2025-A277	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Super Black Coating on Aluminum Alloy for Enhancing Optical Performance of Star Sensors	Geun Tak Yuk	Hanbat National University	Jinsung Rho
297	PP5-019	PRESM2025-A284	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Maskless Patterning of Electrical Layer on the Silicon Surface by Laser-driven Thin Film Deposition	Junseok Heo	Chonnam National University	Seunghwoi Han
298	PP5-020	PRESM2025-A285	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Simultaneous Laser-assisted Inkjet Printing for Improved Reliability of Silver Micro-lines	Iseok Sim	Hanyang University	Jun Young Hwang
299	PP5-021	PRESM2025-A311	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Ultrafast Laser Chemical Vapor Deposition (ULCVD) for 3D Conductive Carbon Patterning on Transparent Substrate	Chanwoong Wi	Chonnam National University	Seunghwoi Han
300	PP5-022	PRESM2025-A344	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Development of High-performance PENG Device based on CNT Scaffold Functionalized with BTO-P (VDF-TrFE)	Jongwon Park	Seoul National University of Science and Technology	Jong G. Ok

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Chiang Mai Marriott Hotel (4F), Suthep Hall 1

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
301	PP5-023	PRESM2025-A346	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Manufacturing Process of Unidirectional Nanoporous Membrane based on Vertically Aligned CNT Forest	Kwangjun Kim	Seoul National University of Science and Technology	Jong G. Ok
302	PP5-024	PRESM2025-A354	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Electropolishing of AgIO3/Ag/PTFE/WO3/W Single-electrode Concentric Circles Type Microneedle Type pH Sensor	Kazuyoshi Tsuchiya	Tokai University	Kazuyoshi Tsuchiya
303	PP5-025	PRESM2025-A375	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Fabrication of a Polyglycolic Acid Porous Microneedle Array Patch Using Integrated Paper-based Cover via Nonsolvent Induced Phase Separation Method	Taisei Kawamura	The University of Tokyo	Beomjoon Kim
304	PP5-026	PRESM2025-A399	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Advanced Composite Materials for Soft Wearables	Hoon Eui Jeong	UNIST	Hoon Eui Jeong
305	PP5-027	PRESM2025-A401	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Fabrication of Inverted Pyramid Structures for Microneedle Arrays via Diffuser Lithography	Seok Hee Kang	Kyungpook National University	Gyu Man Kim
306	PP5-028	PRESM2025-A431	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Viscous Dissipation during the Cavity Formation Upon the Impact of a Water Droplet on an Oil Layer Above Water Pool	Donghoon Lee	Sungkyunkwan University	Jinkee Lee
307	PP5-029	PRESM2025-A432	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Fabrication of Flexible Sensor Platform based on Nanofibers	Min Jae Seo	Kyungpook National University	Young Hun Jeong
308	PP5-030	PRESM2025-A447	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Integration of Smart Adhesive and Triboelectric Nanogenerator for Enhanced Performances and Programmability	Hee Jin Lee	UNIST	Hoon Eui Jeong
309	PP5-031	PRESM2025-A461	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Hierarchical PDMS/Lubricant Composite Coatings for Improved Corrosion Resistance of Aluminum Alloys in Marine Environments	Sung-Jun Lee	Chosun University	Chang-Lae Kim
310	PP5-032	PRESM2025-A464	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Development of Au-doped MoSe2 Nanostructures for Efficient Dopamine Sensing Applications	Rashmi Roy Karmakar	Rajiv Gandhi University	Jyoti Jaiswal
311	PP5-033	PRESM2025-A465	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Laser-based Micro/Nano Patterning on Metal Substrates	Kyu Hyeon Kim	Kookmin University	Bong Chul Kang
312	PP5-034	PRESM2025-A466	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Laser Patterning for Glass Side Interconnection	Jeseong Lee	Kookmin University	Bongchul Kang
313	PP5-035	PRESM2025-A467	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Laser-induced Additive Manufacturing of Combinatorial Functional Surface for Droplet Manipulation	Jongmun Choi	Kookmin University	Bongchul Kang
314	PP5-036	PRESM2025-A482	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Enhancing Drug Ion Diffusion Using an Electrochemically Self-powered Iontophoresis	Wonho Cho	Sungkyunkwan University	Jinkee Lee
315	PP5-037	PRESM2025-A484	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Nonlinear Cut Meta Patch based on Multiscale Crack Trapping	Dong Kwan Kang	UNIST	Hoon Eui Jeong
316	PP5-038	PRESM2025-A485	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	High-performance Magnetic Composite Muscles for Soft Robotics Applications	Hyukjoo Kwon	UNIST	Hoon Eui Jeong
317	PP5-039	PRESM2025-A492	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	High-efficient Single Particle-in-droplet Encapsulation based on Particle Ordering by Inertial and Acoustic Forces	Taewook Eom	Seoul National University of Science and Technology	Younghak Cho
318	PP5-040	PRESM2025-A496	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Selective Conductive Material Filling in Through Silicon Vias	Junwon Lee	Chonnam National University	Seunghwoi Han
319	PP5-041	PRESM2025-A501	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Wafer-scale Fabrication of Stretchable Anisotropic Conductive Films via Rapid Mechanical Rubbing-induced Microparticle Arrangement	Hyunsu Kwak	POSTECH	Anna Lee
320	PP5-042	PRESM2025-A518	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Multi-Functional Cotton via Multistep Processing for Wearable Platforms	Min Ku Kim	Hanyang University	Min Ku Kim
321	PP5-043	PRESM2025-A519	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Fabrication of Wearable Sensor Substrate based on Nanofibers	Hui Jae Kim	Kyungpook National University	Young Hun Jeong
322	PP5-044	PRESM2025-A546	Regular	Poster I	Monday, 7 July	16:50-17:50	5. Micro/Nano Technology	Omnidirectional Conductive Fabrics Enabling Stretchable Wearable Electronics	Ho Kyoung Lee	Pusan National University	Sang Min Park
323	PP6-001	PRESM2025-A092	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	A Magnetically Steerable Guidewire Tip Equipped with a String of Permanent Magnets	Xiao Dong	Daegu Gyeongbuk Institute of Science and Technology	Hongsoo Choi
324	PP6-002	PRESM2025-A125	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Vibration-insensitive Full-field Optical coherence Tomography for in Situ Biomedical Imaging	Woo June Choi	Chung-Ang University	Woo June Choi
325	PP6-003	PRESM2025-A133	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	AI-based Non-invasive Technology for Skin Disease Diagnosis and Analysis	Jaeyoung Kim	Korea University	Jaeyoung Kim

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No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
326	PP6-004	PRESM2025-A163	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	A Smart Anticolitic Peptide with Inflammation Responsiveness	Yunjin Jung	Pusan National University	Yunjin Jung
327	PP6-005	PRESM2025-A168	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of a 3D-printed Human Head Simulator for Bone Conduction Transmission Experiment	Woonhoe Goo	Sogang University	Namkeun Kim
328	PP6-006	PRESM2025-A203	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Multi-axis Ankle Stiffness Modeling and Adaptive Exosuit Anchor Optimization for Individual Rotation Alignment	Hyun Seong Shin	Sogang University	Namkeun Kim
329	PP6-007	PRESM2025-A212	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Residual Attention Network-based Prediction of the Ability to Process Sensory Input and Generate Corresponding Motor Responses for Postural Control	Seungheon Chae	Sungkyunkwan University	Ahnryul Choi
330	PP6-008	PRESM2025-A248	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of a hydrophobic Metal Mesh for Cell Spheroid Fabrication	Jun-Kyu Kang	Wonkwang University	So-Jung Gwak
331	PP6-009	PRESM2025-A265	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Protocatechuic Acid Derivatives Alleviate Hair Loss through Anti-inflammatory Effects in HaCaT Cells	Jaehoon Cho	Korea Institute of Industrial Technology	Jaehoon Cho
332	PP6-010	PRESM2025-A280	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Effectiveness of Robot Assistance in Patient Repositioning: Measuring Physical Stress in Caregivers	Kyeong-Hee Choi	Korea Institute of Industrial Technology	Jae-Soo Hong
333	PP6-011	PRESM2025-A291	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Using the Margin of Stability to Quantify Dynamic Balance during Turning Gait	Young-Hwee Lee	Korea Institute of Industrial Technology	Jae-Soo Hong
334	PP6-012	PRESM2025-A323	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Application of Surface Roughness to Analyze the Effects of Contaminants on Crustacean Exoskeleton Surfaces	Seung-Min Lee	Gyeongsang National University	Tae-Soo Kwak
335	PP6-013	PRESM2025-A389	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of an Early Cognitive Decline Screening Device with a Biomarker-based AI Model	Wooseop Kim	NEUBREZE Inc.	Wooseop Kim
336	PP6-014	PRESM2025-A404	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of a 3D Nanofibrous Microwell to Enhance Organoid Uniformity and Maturity	Dong Sung Kim	POSTECH	Dong Sung Kim
337	PP6-015	PRESM2025-A417	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Usability Evaluation of a Rehabilitation Exercise Program Using an AI-based Motion Analysis System for spinal cord injury	Jung Hwan Kim	Ewha Womans University & Medical Center Mokdong Hospital	Jung Hwan Kim
338	PP6-016	PRESM2025-A419	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of Protocatechuic Acid Derivatives as Skin-whitening Agents: Inhibition of Melanin Biosynthesis in Melanoma Cells	Se Won Bae	Jeju National University	Se Won Bae
339	PP6-017	PRESM2025-A430	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	An Analysis of Multimaterial Preset Extrusion Bioprinting Using Computational Fluid Dynamics	Songwan Jin	Tech University of Korea	Songwan Jin
340	PP6-018	PRESM2025-A433	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	A Pilot Study on the Effectiveness of Ultrasound-Guided Electroacupuncture Therapy	Sungyun Park	Dongguk University	Sungyun Park
341	PP6-019	PRESM2025-A456	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Bio-printing of Functional Vascular Graft for Rapid Vascularization	Hyun-Wook Kang	UNIST	Hyun-Wook Kang
342	PP6-020	PRESM2025-A483	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Construction of a Fibrotic Tumor Model with Enhanced Barrier Function via Core-shell Bioprinting and Stepwise Stiffness Modulation	Seok-Hyeon Lee	Pusan National University	Byoung Soo Kim
343	PP6-021	PRESM2025-A486	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Development of a Lightweight and Backdrivable Knee Exoskeleton	Seungtae Park	University of Science and Technology and Korea Institute of Industrial Technology	Bummo Ahn
344	PP6-022	PRESM2025-A491	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Engineering Bioprinted Skin Patch Consisting of Vascularized Spheroids for Accelerating Wound Healing	Minjun Ahn	Pusan National University	Byoung Soo Kim
345	PP6-023	PRESM2025-A497	Regular	Poster II	Tuesday, 8 July	16:10-17:10	6. Bio & Health	Embedded 3D Printing of Patient-specific Functional PDMS for Biomedical Applications	Jae-Seong Lee	Pusan National University	Byoung Soo Kim
346	PP7-001	PRESM2025-A031	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Evaluation of Heat Transfer Analysis Results for a Vehicle PVT System with Composite Materials under Driving Conditions	Eulyong Ha	Korea Institute of Industrial Technology	Jaewoong Kim
347	PP7-002	PRESM2025-A052	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Uncertainty Quantification for the Cracked Gas Diffusion Layer on Mass Transport Properties with Lattice Boltzmann Method	Khanh-Hoan Nguyen	University of Ulsan	Kyoungsik Chang
348	PP7-003	PRESM2025-A073	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Sustainable Fuel Alternatives: Evaluating Waste Fry Oil Biodiesel in Diesel Engines with ANN Modeling	Dowan Cha	Korea National Defense University	Dowan Cha
349	PP7-004	PRESM2025-A079	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Numerical Studies of the Cathode Patterned Gas Diffusion Layer for Performance Enhancement of Polymer Electrolyte Membrane Fuel Cells	Dong Kun Song	Dankook University	Gu Young Cho
350	PP7-005	PRESM2025-A100	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Performance Stabilization of Reformate-Fueled, Low-temperature Solid Oxide Fuel Cells with Ni-SDC Thin-film Anode by Water Bubbling	Sanghoon Ji	Korea Institute of Civil Engineering and Building Technology	Sanghoon Ji

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
351	PP7-006	PRESM2025-A111	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Numerical Investigations of Mass Transport Improvement Techniques of Flow Channels for PEMFCs	Do Yeong Jung	Dankook University	Gu Young Cho
352	PP7-007	PRESM2025-A149	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Evaluation of the electrochemical properties of LT-SOFCs with PrOx capping layer	Jiwoong Jeon	Dankook University	Gu Young Cho
353	PP7-008	PRESM2025-A239	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Surface Modification of Graphite Felt Electrodes with Titanium Oxynitride Nanocoating for High-performance Vanadium Redox Flow Batteries	Wei-Lun Lee	National Pingtung University	Wen-Jen Lee
354	PP7-009	PRESM2025-A294	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Numerical Analysis of Mass Transport in PEMFCs with Linearly Varying Channel Depth in Parallel Flow Fields.	Dong Kun Song	Dankook University	Gu Young Cho
355	PP7-010	PRESM2025-A302	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Performance Estimation of a Solar-Driven Thermoelectric Generation System with Radiative Cooling Under Various Climatic Conditions	Yongsik Ham	Kongju National University	Joong Bae Kim
356	PP7-011	PRESM2025-A308	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Mechanical Property Evaluation of Eco-friendly Basalt Fiber Composites according to Various Lamination Methods	Byungwook Jeon	Kunsan National University	Kiweon Kang
357	PP7-012	PRESM2025-A320	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Investigation of Performance Differences in a 3-bed Adsorption Refrigeration System under Different Operating Modes	Kyungjin Bae	Korea Institute of Industrial Technology	Ohkyung Kwon
358	PP7-013	PRESM2025-A356	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	La0.6Sr0.4Co0.4Fe0.6O3-δ Nano-functional Interlayer in Solid Oxide Electrolysis Cells	Juhwan Lee	POSTECH	Jihwan An
359	PP7-014	PRESM2025-A358	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Radiative Cooling Performance Evaluation with Precise Solar Irradiance Consideration	Joong Bae Kim	Kongju National University	
360	PP7-015	PRESM2025-A407	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Understanding of Effective Passivators for Achieving High-quality Perovskite Films and Optoelectronic Devices	Sung Heum Park	Pukyong National University	SUNG HEUM PARK
361	PP7-016	PRESM2025-A459	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Design of a Generator with Complex Geometry Fabricated via Additive Manufacturing	Pin-Hao Liao	National Cheng Kung University	Mi-Ching Tsai
362	PP7-017	PRESM2025-A471	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Scalable Ni-P Composite Porous Electrodes for Efficient Alkaline Water Splitting	Byeong Chan Choi	Korea Institute of Industrial Technology	Hyoung Chan Kim
363	PP7-018	PRESM2025-A500	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Improving Water Management with Nature Inspired Flow Channel in Polymer Electrolyte Membrane Fuel Cell	Sung Yong Jung	Chosun University	Sung Yong Jung
364	PP7-019	PRESM2025-A534	Regular	Poster II	Tuesday, 8 July	16:10-17:10	7. New and Renewable Energy	Fabrication of Lithium Metal Foil via Melt-casting, Extrusion, and Cold Rolling for Application as an Anode in All-solid-state Batteries	Sangwoo Kim	Korea Institute of Industrial Technology	Dongeung Kim
365	PP8-001	PRESM2025-A084	Regular	Poster II	Tuesday, 8 July	16:10-17:10	8. Sustainable Technology	Development of Dissimilar Materials Joining Technology Using Ultrasonic Application	Koki Matsuo	Hiroshima University	Yongbum Choi
366	PP8-002	PRESM2025-A309	Regular	Poster II	Tuesday, 8 July	16:10-17:10	8. Sustainable Technology	Improving Autonomous Driving in Bad Weather Using Cycle GAN	Jonghwan Lee	Kumoh National Institute of Technology	Jonghwan Lee
367	PP8-003	PRESM2025-A381	Regular	Poster II	Tuesday, 8 July	16:10-17:10	8. Sustainable Technology	Development of a Testbed and Predictive Algorithms for Hybrid Micro-Pin Reliability in Semiconductor Test Sockets	Juhun Lee	Tech University of Korea	Hyo-Young Kim
368	PP8-004	PRESM2025-A513	Regular	Poster II	Tuesday, 8 July	16:10-17:10	8. Sustainable Technology	3D-Printable Silicone Reinforced with Naturally Derived Polymer for Customizable Biomedical Devices	Min Ku Kim	Hanyang University	Min Ku Kim
369	PP8-005	PRESM2025-A521	Regular	Poster II	Tuesday, 8 July	16:10-17:10	8. Sustainable Technology	Three-dimensional Printed Architectures for Highly Deformable and Efficient Energy Harvesting Surfaces	Phillip Lee	Korea Institute of Science and Technology	Phillip Lee
370	SP1-001	PRESM2025-A009	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Dynamic Characteristics Analysis of the Developed Digital Automatic Coupler for Freight Wagon through Driving Field Tests	Jeong Hwan Choi	Korea Testing Laboratory	Hae Young Ji
371	SP1-002	PRESM2025-A027	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	A Study on the Suitability Verification of the Lower Articulation for Low-floor Trams	Jaewon Lee	Korea Testing laboratory	Ji-Won Jin
372	SP1-003	PRESM2025-A085	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Development of a Platform Screen Doors Testbed for Responding to the International Standardization	Sungho Yun	Korea Railroad Research Institute	Sungho Yun
373	SP1-004	PRESM2025-A096	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Experimental Study of Thermal Runaway Propagation Characteristics in LTO Battery Module	Minji Jung	Korea Railroad Research Institute	Minji Jung
374	SP1-005	PRESM2025-A097	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	A Study on Establishment of National Technical Standard for the Traction Lithium-ion Battery Installing on Rolling-Stock	Kang Won Lee	Korea Railroad Research Institute	Kang Won Lee
375	SP1-006	PRESM2025-A105	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Installations of Passenger Behavior Detection System in Railway Vehicles	Won-Hee Park	Korea Railroad Research Institute	Won-Hee Park

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
376	SP1-007	PRESM2025-A148	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	A Study on Performance Verification Test for Derailment Detector of Railway Vehicle	Young-Sam Ham	Korea Railroad Research Institute	Young-Sam Ham
377	SP1-008	PRESM2025-A169	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Feasibility Study of Machine Learning Techniques Applicability for Railway Derailment Analysis	Jaehoon Lim	Korea Railroad Research Institute	Hyunkyu Jun
378	SP1-009	PRESM2025-A179	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Review on the Derailment Criteria for Railway in Korea	Sungho Yun	Korea Railroad Research Institute	Jae-Chul Kim
379	SP1-010	PRESM2025-A186	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Real-time Fault Diagnosis Method for Railway Vehicle Dampers Based on Damping Force and Velocity Measurement	Kyung Ho Moon	Korea Railroad Research Institute	Kyung Ho Moon
380	SP1-011	PRESM2025-A187	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Accurate Measurement of Airborne Wear Particle Number Concentrations Generated from Wheel-rail Contact at Different Surface Roughness under Water Application Conditions	HyunWook Lee	Korea Railroad Research Institute	HyunWook Lee
381	SP1-012	PRESM2025-A188	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Fatigue Test and Finite Element Analysis for Damage Evaluation of High-speed Railway Wheels	Jung-Won Seo	Korea Railroad Research Institute	Jung-Won Seo
382	SP1-013	PRESM2025-A266	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Development of a Heating Mold to Improve the Production Efficiency of Interior Composite Panels for Railway Vehicles	Juyeop Park	Korea Railroad Research Institute	Donghoon Kang
383	SP1-014	PRESM2025-A275	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Influence of Inner Diameter Variation on Contact Pressure and Fatigue Life in Interference-fitted Hollow Shafts	Dong Hyung Lee	Korea Railroad Research Institute	Dong Hyung Lee
384	SP1-015	PRESM2025-A400	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Finite Element Analysis of Wheel/Rail Contact Stress Considering the Tread Profile of the Wheel and the Inclination of the Rail	Byeong Choon Goo	Korea Railroad Research Institute	Byeong Choon Goo
385	SP1-016	PRESM2025-A469	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Two-stage Multi-objective Optimization of High-speed Train Nose Shape for Aerodynamic Drag, Micro-pressure Wave, and Crosswind Stability	Su-Hwan Yun	Korea Railroad Research Institute	Su-Hwan Yun
386	SP1-017	PRESM2025-A470	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Performance Analysis of Indoor Drone Navigation Using UWB-based 3D A* Path Planning Algorithm	Je-Seung Yeon	Cheongju University	Jung-Ho Moon
387	SP1-018	PRESM2025-A506	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	A Simulation Study on UWB-based Localization for Multi-Vehicle Systems in GNSS-denied Fire Scenarios	Tae-Hyeon Joe	Chungbuk National University	Sung-Tae Moon
388	SP1-019	PRESM2025-A550	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 1. Railway Engineering	Improving Aerodynamic Efficiency of Railway Cooling Fan Impeller Blades at Low Reynolds Numbers	Seungwon Kim	Cheongju University	Chankyu Son
389	SP2-001	PRESM2025-A121	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Optimization of Electrospray Deposition and Thermal Treatment of Silver Nanoparticles for High-performance SERS Substrates	Minseok Kim	Kumoh National Institute of Technology	Minseok Kim
390	SP2-002	PRESM2025-A197	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Intelligent Robotic Arm Manipulation	Yeongmin Kim	Kumoh National Institute of Technology	Jungwoo Sohn
391	SP2-003	PRESM2025-A199	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Model Predictive Control Approach of Active Suspension Systems for Optimized Ride Comfort and Stability	Jeongmo Kim	Kumoh National Institute of Technology	Jungwoo Sohn
392	SP2-004	PRESM2025-A288	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Growth Direction Control of Micro Pillars Fabricated by Laser-assisted Electrospinning	Ji-Su Park	Kumoh National Institute of Technology	Gil-Yong Lee
393	SP2-005	PRESM2025-A289	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Direct Writing of Microheater Integrated with Temperature sensor by In-situ Laser Sintering	Min-Hyeong Lee	Kumoh National Institute of Technology	Gil-Yong Lee
394	SP2-006	PRESM2025-A290	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Performance Evaluation of a Pressure Sensor based on Conductive Thin Film Fabricated by Selective Laser Sintering	Seung-Hyeon Choi	Kumoh National Institute of Technology	Gil-Yong Lee
395	SP2-007	PRESM2025-A296	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	In-situ Height Control of Dispensing System for Large-area Conductive Patterning	Jae-Wook Yu	Kumoh National Institute of Technology	Gil-Yong Lee
396	SP2-008	PRESM2025-A495	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	7-DOF Manipulator Operational Process for Autonomous Remote Inspection of Ropeway Facilities	Hyunbin Park	Kumoh National Institute of Technology	Baeksuk Chu
397	SP2-009	PRESM2025-A499	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	ANN-based Water Jet Trajectory Prediction with Segmented Curve Fitting	Geonho Yim	Kumoh National Institute of Technology	Baeksuk Chu
398	SP2-010	PRESM2025-A507	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	LSTM-based Real-time Pressure Prediction Model Using Insole Sensors	Minseong Kim	Kumoh National Institute of Technology	Baeksuk Chu
399	SP2-011	PRESM2025-A510	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 2. Multidisciplinary Research & Mechatronics for Aero/Defense Applications	Locomotion Performance Experiments of a Mode-transformable Wheeled Quadruped Robot for Versatile Terrain Adaptability	Beomseok Kim	Kumoh National Institute of Technology	Baeksuk Chu
400	SP3-001	PRESM2025-A402	Special	Poster II	Tuesday, 8 July	16:10-17:10	Special session - 3. e-Chem Meditronic Systems	Polymeric Conductive Adhesive-based Ultrathin Epidermal Electrodes for Long-term Monitoring of Electrophysiological Signals	Tae-il Kim	Sungkyunkwan University	Tae-il Kim

No.	PP	Abstract No.	Role	Category	Date	Time	Topics	Presentation Title	Presenter	Presenter Affiliation	Corresponding
401	SP3-002	PRESM2025-A405	Special	Poster II	Tuesday, 8 July	16:10-17:10	Special session - 3. e-Chem Meditronic Systems	Rapid Sol-flame Process for Enhanced Surface and Electronic Properties of Transition Metal-based Oxide Electrodes in Photoelectrochemical Water Splitting	Jung Kyu Kim	Sungkyunkwan University	Jung Kyu Kim
402	SP3-003	PRESM2025-A427	Special	Poster II	Tuesday, 8 July	16:10-17:10	Special session - 3. e-Chem Meditronic Systems	Core-shell Structured Catalysts with a Superior Thermal Stability for Dry Reforming of Methane	Jong Wook Bae	Sungkyunkwan University	Jong Wook Bae
403	SP3-004	PRESM2025-A529	Special	Poster II	Tuesday, 8 July	16:10-17:10	Special session - 3. e-Chem Meditronic Systems	Engineered Extracellular Vesicles for Targeted Therapy of Acute Kidney Injury	Jae Hyung Park	Sungkyunkwan University	Jae Hyung Park
404	SP3-005	PRESM2025-A563	Special	Poster II	Tuesday, 8 July	16:10-17:10	Special session - 3. e-Chem Meditronic Systems	Charge-directed Nanocellulose Assembly for Sustainable Interface Catalysis	Jin Woong Kim	Sungkyunkwan University	Jin Woong Kim
405	SP4-001	PRESM2025-A043	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	3-Dimensional Acoustic Ranging (3DAR) based Human-robot and Robot-robot Interaction in Audible and Inaudible Frequency	Semin Ahn	Seoul National University	Sung-Hoon Ahn
406	SP4-002	PRESM2025-A045	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Method for Manufacturing Freestanding Carbon Nanotube Thin Films	Wonjin Kim	Seoul National University	Sung-Hoon Ahn
407	SP4-003	PRESM2025-A055	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Performance Analysis of Robotics Simulators for On-device Digital Twin and AI Integration	Hwancheol Kang	Seoul National University	Sung-Hoon Ahn
408	SP4-004	PRESM2025-A067	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	A Remotely Tunable Band Pass Filter for Machine Condition Monitoring	Guyeop Jung	Seoul National University	Sung-Hoon Ahn
409	SP4-005	PRESM2025-A104	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Inaudible LLM-based Communication System for Robot-to-robot Interaction	Stefan Kind	Seoul National University	Sung-Hoon Ahn
410	SP4-006	PRESM2025-A172	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	IoT Enabled Multi-tracking Textile Sensor Based Smart Sportswear for Real-time Quantitative and Qualitative Health Monitoring and Activity Tracking	Roque Sando Vilanculo	Seoul National University	Sung-Hoon Ahn
411	SP4-007	PRESM2025-A175	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Design Optimization and Performance Analysis of Stitch Patterns, Ply Arrangement, and Coating Materials for Conductive Yarn-based Strain Sensors	Jennifer Callanga	Seoul National University	Sung-Hoon Ahn
412	SP4-008	PRESM2025-A269	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Design of a Spherical Pin-array Gripper for Adaptive Tool Manipulation and Grasping of Irregularly-shaped Objects	Hyeongwon Kim	Seoul National University	Sung-Hoon Ahn
413	SP4-009	PRESM2025-A314	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Three-fingered Ionic Polymer-Metal Composite (IPMC) Micro Soft Gripper with Laser-patterned Independent Actuation	Soohyun Lim	Seoul National University	Sung-Hoon Ahn
414	SP4-010	PRESM2025-A444	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Experimental and Numerical Study on Multi-PCM Floor Heating Panel	Jungwoo Park	Seoul National University	Sung-Hoon Ahn
415	SP4-011	PRESM2025-A451	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Additive Manufacturing and Optimization of Long Discontinuous Fiber Reinforced Composites	Cheonghwa Lee	University of Connecticut	Ji Ho Jeon
416	SP4-012	PRESM2025-A591	Special	Poster I	Monday, 7 July	16:50-17:50	Special session - 4. Innovative Design and Integrated Manufacturing	Impact Response and Repairability of Fiber-reinforced Vitrimer Composites	Jun Young Choi	Seoul National University	Ji Ho Jeon
417	SP5-001	PRESM2025-A014	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	CFD Simulation of Oil-water Phase Separation with a Focus on Temperature Effects	Dong-Hyun Kim	Sungkyunkwan University	Youn-Jea Kim
418	SP5-002	PRESM2025-A544	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	Time-Dependent Mechanical Performance Evaluation of TPU-ZnO Composite 3D Printed Parts	Nang Shwe Htike	Sungkyunkwan University	Sang Won Lee
419	SP5-003	PRESM2025-A545	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	Development of a Defect Pattern Extraction for Wafer Defect Maps Using DBSCAN-DFS	Sukhee Lee	Sungkyunkwan University	Sang Won Lee
420	SP5-004	PRESM2025-A552	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	Fabrication of TPU-CNT Composite Thermoelectric Filament and EMI Shielding Film using 3D Printer	Jihun Lee	Sungkyunkwan University	Kyungwho Choi
421	SP5-005	PRESM2025-A553	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	Self-adaptable TENG/EMG Hybrid Harvesting System by the Rotational Force of a Vehicle Axle	Seongmin Na	Sungkyunkwan University	Dukhyun Choi
422	SP5-006	PRESM2025-A582	Special	Poster III	Wednesday, 9 July	17:00-18:00	Special session - 5. Human-Centered Convergence Mechanical Solution	Bio-inspired Stretchable Microneedle Array Patch for Overcoming Mechanical Mismatch between Soft Substrate and Hard Microneedles	Jongchan Lee	Sungkyunkwan University	Sangyul Baik