iDECON/MS2023 Parallel Session Schedule

DAY1	(Sept. 1, Fri)				
14:00〜	15:20		Parallel Session A1	A1: Lean Manufacturing	
			Chair	Tsuyoshi Koga (Yamaguchi University)	
		paper #	Title	Authors	Affiliation
14:00〜	14:20	3	Application of Kaizen in Proposing a Hood Placement Design for the Milling Machines' Exhausting Ventilation System	Effendi Mohamad, Nur Ain Qistina Muhammad Shafee, Teruaki Ito, Mohd Soufhwee Abd Rahman, Mohd Rizal Salleh, Arfauz A Rahman, Norilani Md Nor Hayati and Siti Aishah Abd Aziz	Universiti Teknikal Malaysia Melaka, Okayama Prefectural University, Queen's University Belfast
14:20〜	14:40	7	Numerical Process Parameters Optimization in Hammer Forging for Minimizing Forging Load	Reo Sugita, Satoshi Kitayama, Eri Aono, Shuhei Kondo, Koji Miyoshi and Masaharu Amano	Kanazawa University, Komatsu Ltd.
14:40〜	15:00	8	Examining the Impact of Enablers on Green Lean Six Sigma Benefits in the Malaysian Wastewater Treatment Sector: A Pilot Study	Effendi Mohamad, Anuar Ishak, Hambali Arep, Teruaki Ito, Muhamad Arfauz A Rahman and Mohd Faizal Ab Jalil	University Technical Malaysia Melaka, Department of Environment Malaysia, Okayama Prefectural University, Queen's University Belfast
15:00〜	15:20	41	Balanced Scorecard with KAIZEN approach for Increasing SMEs Performance: Case Study in Manufacturing Fashion Batik	Faizuddin Firdaus Zaini, Mohd Rizal Salleh, Md Nizam Abdul Rahman and Nashrullah Setiawan	Universiti Teknikal Malaysia Melaka, Universitas Islam Indonesia
15:50〜	17:10		Parallel Session A2	A2: Mechatronics Systems	
			Chair	Kazunori Kaede (Saitama University)	
		paper #	Title	Authors	Affiliation
15:50〜	16:10	5	Vibration Suppression Control of Geared Mechanical System with Power-Circulation Structure: Simulation Study on Sensor-Based Control Using the Performance Index Composed of the Control Error Area and the Current Consumption Area	Masahiko Itoh	National Institute of Technology, Sendai College
16:10〜	16:30	15	Vibration Suppression Control of Geared Mechanical System with Power-Circulation Structure: Simulation Study on Disturbance Suppression Performance of Sensor-Based	Masahiko Itoh	National Institute of Technology, Sendai College
16:30〜	16:50	16	Development of a New Propulsion Mechanism Inspired by the Swimming Motion of Shrimp and Its Application to Underwater Robotics.	Teppei Inoue, Geunho Lee and Kakeru Shiki	University of Miyazaki
16:50〜	17:10	32	Simultaneous Optimization of Damper Arrangement and Shape in Vibration Problems (Approach Using GA)	Naoki Kishi, Zhiqiang Wu and Tomonori Shigeyoshi	The University of Shiga Prefecture

14:00〜	15:20		Parallel Session B1	B1: Human Interface and Usability I	
			Chair	Kaoru Mitsuhashi (Teikyo University)	
		paper #	Title	Authors	Affiliation
14:00〜	14:20	9	Development of Remote Collaboration Platform for Manufacturing Environment Using Mixed Reality	Eoghan Laverty, Muhamad Arfauz A Rahman, Yan Jin, Paul G. Maropoulos, Effendi Mohamad, Mohd Rizal Salleh and Azrul Azwan Abdul Rahman	Queen's University Belfast, Universiti Teknikal Malaysia Melaka
14:20〜	14:40	11	Influences of Changing Clothes Color of Communication Robot on Information Transmission to Listener	Akihiro Tatsumi and Masashi Okubo	Doshisha University
14:40〜	15:00	19	Particle Filter Scheme of Both Shins Gaiting and Abdomen Swing for Motion Estimation and Prediction	Ryota Murakami, Geunho Lee, Shijie Ge and Yusuke Hayakawa	University of Miyazaki
15:00〜	15:20	20	Evaluation of Gazes of Experts and Beginners in Vortex Search of Fluid-Simulation	Taichi Maeda and Keiichi Watanuki	Hitachi, Ltd., Saitama University
15:50〜	17:10		Parallel Session B2	B2: Human Interface and Usability II	
			Chair	Masashi Okubo (Doshisha University)	
		paper #	Title	Authors	Affiliation
15:50〜	16:10	23	Fundamental Development of a Safety System for Working Machinery Using Vibrotactile Information	Kazuya Yokota, Hirohide Imai, Hiroshi Kawanishi, Kengo Takahashi and Masajiro Abe	Nagaoka University of Technology
16:10〜	16:30	24	Differences in Nonverbal Behavior in Online Communication	Tomohiro Akutsu and Tetsuro Ogi	Keio University
16:30〜	16:50	35	Face Type Recognition Method for Beauty Industry	Xuanqi Feng, Takahiro Yakoh and Tetsuro Ogi	Keio University
16:50〜	17:10	47	Evaluation of Conveying Spatial Information by Pointing Gestures of a Tele-Immersion Robot Avatar	Yuki Kida, Kei Matsuoka and Tetsuro Ogi	Keio University, Shonan Institute of Technology

14:00〜	15:20		Parallel Session C1	C1: Machining Systems	
			Chair	Shigeru Hosono (Tokyo University of Technology)	
		paper #	Title	Authors	Affiliation
14:00〜	14:20	33	Toward Big Data Analytics for Smart Manufacturing: A Case of Machining Experiment	Taro Iwata, Angkush Kumar Ghosh and Sharifu Ura	Kitami Institute of Technology
14:20〜	14:40	13	Estimation and Examination for Cutter Path Motion Error of Machining Center	Hua Qiu and Tetsurou Yamaguchi	Kyushu Sangyo University
14:40〜	15:00	40	The Effect of Cooling and Lubrication on the Cutting Force During the Milling Process of Inconel 718	Mohd Shahir Kasim, Saiful Bahri Mohamed, Zammeri Abdul Rahman, Siti Nurul Akmal Yusof, Siti Maryam Sharun, Raja Izamshah Raja Abdullah, Muhammad Ashlyzan Razik and Teruaki Ito	Universiti Sultan Zainal Abidin, Universiti Teknikal Malaysia Melaka, Universiti Malaysia Kelantan, Okayama Prefectural University
15:00〜	15:20	44	Optimal B-Spline Motion Trajectory Generation Considering Corner Tolerances for Industrial Machines	Yuya Fujita, Muhammad Azmi Bin Ayub and Naoki Uchiyama	Toyohashi University of Technology, Universiti Teknologi MARA
15:50〜	17:10		Parallel Session C2	C2: Automation and Intelligent Systems	
			Chair	Satoshi Kitayama (Kanazawa University)	
		paper #			Affiliation
15:50〜	16:10	10	Implementation of a 3D Scanning System for Quality Inspection in Manufacturing	Rachel Hughes, Muhamad Arfauz A Rahman, Chengsi Lin, Paul G. Maropoulos, Effendi Mohamad, Mohd Rizal Salleh and Azrul Azwan Abdul Rahman	Queen's University Belfast, Universiti Teknikal Malaysia Melaka
16:10〜	16:30	28	Automate Mobile Robot Actions Strategy Using Grammatical Evolution	Firdaus Sukarman and Eisuke Kita	Nagoya University
16:30〜	16:50	29	Implementation and Feedback Controller of Mobile Platform for Hammering Inspection Robot	Kaito Hirae, Geunho Lee, Chunhe Li, Seiya Sakaguchi and Ryutaro Uozumi	University of Miyazaki
16:50〜	17:10	45	A Web3 Service Architecture with Self-Sovereign Identity	Ryo Tateishi and Shigeru Hosono	Tokyo University of Technology

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DAY2	(Sept. 2, Sat)				

13:00～	14:20		Parallel Session A3	A3: Sustainable Design and Manufacturing I	
			Chair	Yoshiharu Iwata (Osaka University)	
		paper #	Title	Authors	Affiliation
13:00～	13:20	4	A Literature Review on the Effects of New Sourcing Strategies for Labor Shortages on Production Performance in Malaysian Manufacturing Firms	Megawati Sa'At, Mohd Rizal Salleh, Fadhlur Rahim Azmi, Teruaki Ito, Mikito Yasuzawa, Arfauz A Rahman and Mohd Syaiful Rizal Abdul Hamid	Universiti Teknikal Malaysia Melaka, Universiti Teknologi MARA, Okayama Prefectural University, Tokushima University, Queen's University
13:20～	13:40	12	Human Resource Allocation in Multi-Project Management Using Resource Buffers	Mst Taskia Khatun, Kazuo Hiekata and Takuya Nakashima	The University of Tokyo
13:40～	14:00	21	Cross-Cultural Teamwork Program for Japanese and Malaysian University Students	Teruaki Ito, Mikito Yasuzawa, Hironori Takimoto, Akira Tsumaya, Hiroyuki Mitsuhara, Effendi Mohamad and Mohd Rizal Salleh	Okayama Prefectural University, Tokushima University, Univerisiti Teknikal Malaysia Melaka, Malaysia
14:00～	14:20	22	Effect of Various Conditions on Deformation Twin Formation by Torsion and Back-Torsion	Hayata Okazaki, Taro Kato and Mitsuaki Furui	Tokyo University of technology
14:50～	16:10		Parallel Session A4	A4: Sustainable Design and Manufacturing II	
			Chair	Effendi Mohamad (Universiti Teknikal Malaysia Melaka)	
		paper #	Title	Authors	Affiliation
14:50～	15:10	31	Proposal of System Design Framework Using Layered Lifecycle Structure	Tomoyuki Kato, Tsuguto Inayama and Seiko Shirasaka	Keio University
15:10～	15:30	34	A Reference Model to Visualize and Deepen Discussions on Emergency Medical Services Electric Vertical Takeoff and Landing Aircraft	Aki Nakamoto, Tsubasa Nakamura and Masaru Nakano	Keio University
15:30～	15:50	38	Designing Self-Deployable Membranes Integrated with Elastic Frames	Sachiko Ishida	Meiji University
15:50～	16:10	39	Enhancing the Gravitational Search Algorithm Through Adaptive Parameter Control Using Linear Mapping of Fitness: A Preliminary Investigation	Yoshikazu Yamanaka, Hiroki Takahara and Katsutoshi Yoshida	Utsunomiya University

13:00～	14:20		Parallel Session B3	B3: Manufacturing Systems	
			Chair	Kaori Yamada (Iwate University)	
		paper #	Title	Authors	Affiliation
13:00～	13:20	6	Analysis of Highly Skills Regarding Hammering Test for Mold Adjustment Operations	Katsuya Takahashi, Hirohisa Narita, Hideo Fujimoto, Yudai Kobayashi and Yoshikatsu Muko	Meijo University, Nagoya Institute of Technology, GrandTech Fujimoto Co. Ltd., DENSO CORPORATION
13:20～	13:40	30	Toolpath Generation Algorithm Using Route Model for Non-Planar Layering in Additive Manufacturing	Nasa Itohara and Toshitake Tateno	Meiji University
13:40～	14:00	36	The Effect of 5S Implementation for Manufacturing Sustainability Performance in Indonesian Small and Medium Enterprises: Socio-Technical Perspective	Nashrullah Setiawan, Mohd Rizal Salleh, Hambali Ariff and Faizuddin Firdaus Zaini	Universitas Islam Indonesia, Universiti Teknikal Malaysia Melaka
14:00～	14:20	43	Analyzing Customer-Producer Interaction System Using Axiomatic Design Theory	Lukita Dea Kutari and Sharifu Ura	Kitami Institute of Technology
14:50～	15:50		Parallel Session B4	CAD/CAM/CAE	
			Chair	Toshitake Tateno (Meiji University)	
		paper #	Title	Authors	Affiliation
14:50～	15:10	26	Geometric Modeling Using Stochastically Manipulated Triangular Tessellation	Kazuki Sasaki and Sharifu Ura	Kitami Institute of Technology
15:10～	15:30	14	Disassembling Process Inference Using Positional Relations Matrix for Complicated Machines	Kaori Yamada and Kazuyuki Hanahara	Iwate University
15:30～	15:50	27	Classification of Handwritten Drawing Shape in 3D Direct Drawing System Using Machine Learning	Kaoru Mitsuhashi	Teikyo University

13:00～	14:20		Parallel Session C3	C3: Kansei/Emotional Design	
			Chair	Shigeru Hosono (Tokyo University of Technology)	
		paper #	Title	Authors	Affiliation
13:00～	13:20	17	Proposal of a Quantitative Evaluation Method for Assisting in Evaluation of Latent Needs in Innovative Design Method	Nurhayati Md Issa, Nami Okamura, Ryohei Hazama, Wira Jazair Yahya, Mohd Hatta Mohammed Ariff and Tsuyoshi Koga	Yamaguchi University, Yamaguchi Prefectural Industrial Technology Institute, Universiti Teknologi Malaysia
13:20～	13:40	18	Proposal and Validation of Statement Interpretation Guidelines (with Experience, as Designer, with Empathy) for Discovering Latent Needs from Interview Responses	Nurhayati Md Issa, Ryohei Hazama, Nami Okamura, Wira Jazair Yahya, Mohd Azizi Abdul Rahman and Tsuyoshi Koga	Yamaguchi University, Yamaguchi Prefectural Industrial Technology Institute, Universiti Teknologi Malaysia
13:40～	14:00	25	Formulation of Value-in-Use for Model-Based Development	Yusuke Tsutsui, Yuma Shibuya and Akira Tsumaya	Okayama Prefectural University
14:00～	14:20	46	A User-Centered Design Method Based on Evaluation Grid Method and Rough Sets	Yo Otsuka, Mamiko Sakuragi and Masato Inoue	Meiji University
14:50～	15:50		Parallel Session C4	C4: AI/IoT Application	
			Chair	Eiji Morinaga (Osaka Metropolitan University)	
		paper #	Title	Authors	Affiliation
14:50～	15:10	42	Investigation on Verification of the Integration Neural Networks Theory by Weight Analysis Based on Weierstrass' Approximation Theorem	Yoshiharu Iwata and Hidefumi Wakamatsu	Osaka University
15:10～	15:30	48	IoT and Machine Learning Based Micro Screw Axial Force Estimation Approach	Yasushi Tomita, Keiichi Watanuki, Kazunori Kaede, Yusuke Osawa, Shohei Tawata, Ryoya Oba and Naoki Nozawa	Vanguard Systems Inc., Saitama University
15:30～	15:50	49	Enhancing the Interpretability of Anomaly Detection Methods for the Prediction of Foreign Object Contamination	Takashi Ohnishi and Keiichi Watanuki	Magnetec Japan Ltd., Saitama University