

Parallel Session Schedules (Tentative rev.1)

Thursday 7 September

Room C1

13:00~14:30	Parallel Session [A1]	Human Interface 1	
	Chair	Kaoru Mitsuhashi	
		Paper No.	Title
13:00~13:20		9	Mohammad Firdaus, Seri Rahayu, Mohamad Minhat, Minoru Fukumi and Teruaki Ito Effendi Mohamad, Eliyana Sari Sumaidy, Muhamad Arfauz A
13:20~13:40		28	Rahman, Mohd Shukor Salleh, Mohd Amri Sulaiman, Mohd Rizal Salleh, Saifudin Hafiz Yahaya, Teruaki Ito and Lubnah Hussein
13:40~14:00		8	Seri Rahayu Kamat, Mohd Hafiz A Hamid, Syamimi Shamsuddin, Minoru Fukumi, Teruaki Ito and Kalthom Husain
14:00~14:20		50	Rohana Abdullah, Md. Nizam Abdul Rahman and Mohd. Rizal Salleh
15:00~16:30	Parallel Session [A2]	Concurrent Engineering 1	
	Chair	Teruaki Ito	
		Paper No.	Title
15:00~15:20		10	Shuichi Fukuda
15:20~15:40		42	K.L. Wong, K.E. Chong, B.C. Chew and Zuhriah
15:40~16:00		54	Ryosuke Okada, Yoshiaki Murata and Masato Inoue
16:45~17:55	Parallel Session [A3]	Concurrent Engineering 2	
	Chair	Shuichi Fukuda	
		Paper No.	Title
16:45~17:05		12	Hiroki Kimachi, Teruaki Ito and Tomio Watanabe
17:05~17:25		41	Yong Siang Teoh, Teruaki Ito and Puvanasvaran Perumal
17:25~17:45		46	Teruaki Ito, Yoshihiro Uto, Toshihiro Moriga, Muhammad Zaimi Zainal Abidin, Effendi Mohamad and Mohd Rizal Salleh

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Room C2

13:00~14:30 Parallel Session [B1]		SCM & Job management	
Chair		Toru Eguchi, Tatsuhiko Sakaguchi	
	Paper No.	Authors	Title
13:00~13:20	19	Tatsuhiko Sakaguchi, Van Tu Tran and Naoki Uchiyama	A Concurrent Negotiation Framework for Multi-client in Two Echelon Supply Chain
13:20~13:40	40	Toru Eguchi, Koji Ohama and Takeshi Murayama	Job shop scheduling for meeting due dates and minimizing overtime —Performance improvement using optimization for each shift—
13:40~14:00	26	Ka Tiek Lim, Norizah Mohamad, Shahrul Kamaruddin, Amir Yazid Ali and Ping Chow Teoh	Lean implementation barriers reduction – Case study in Malaysian Small and Medium Enterprises/Contract Manufacturers
15:00~16:30 Parallel Session [B2]		Innovative Design & Management 1	
Chair		Shinichi Fukushige	
	Paper No.	Authors	Title
15:00~15:20	11	Shingo Yamaguchi and Hiroshi Morita	Efficient product design using functional equations
15:20~15:40	27	Chise Shibata, Shuho Yamada, Tetsuo Yamada, Stefan Bracke and Masato Inoue	Proposal of an Adaptability Evaluation Indicator for Component's Life Cycle Options from environmental, economical, functional and reliable perspectives
15:40~16:00	17	Norizah Mohamad, Yong Cheng Wai, Amir Yazid Ali and Noorliza Karia	Innovation types and performance - Case Studies at Small Medium Industry at Seberang Perai Municipality Penang
16:00~16:20	13	Tamotsu Iizuka, Toshiaki Kimura, Hisayoshi Hotozuka, Masayuki Fujitsuka, Seiichi Matsumaru and Toshitake Tateno	3D Printing Business Promoting Jobs for People with Disabilities by Using Manufacturing Technology
16:45~17:55 Parallel Session [B3]		Innovative Design & Management 2	
Chair		Hirohisa Narita	
	Paper No.	Authors	Title
16:45~17:05	21	Haruki Mizokami and Toshitake Tateno	Stiffness design optimization of multi-material structure for additive manufacturing by using genetic algorithms
17:05~17:25	34	Saifudin Hafiz Yahaya, Mohd Shukor Salleh, Effendi Mohammad, Mohd Rizal Salleh, Mohd Amri Sulaiman and Muhamad Arfauz A Rahman	C-Shaped Transition Curve in Air Filter Design
17:25~17:45	31	Mohamad Ridzuan Mohamad Kamal, N.A.M. Mustafa, E. Othman, Nur Farah Bazilah Wakhi Anuar and Mohd Shukor Salleh	Analysis of High Pressure Diecasting of Motorcycle Pressure Plate Using CAE Approach

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Room C3

13:00~14:30		Parallel Session [C1]		Additive Manufacturing	
Chair		Toshitake Tateno			
	Paper No.	Authors	Title		
13:00~13:20	23	Terutake Hayashi, Syuhei Kurokawa and Keigo Matsunaga	Surface trimming technique to reduce staircase effect in layer manufacturing method		
13:20~13:40	29	Hirohisa Narita and Masayuki Yamada	A new shape design of an animal bed for fixing a rat		
13:40~14:00	57	Faiz Redza Ramli, Mohd Afdhal Nazan, Mohd Rizal Alkahari, Mohd Nizam Sudin and Mohd Azman Abdullah	Investigation of warping deformation in fused deposition modelling by sago starch adhesion		
15:00~16:30		Parallel Session [C2]		Machining	
Chair		Terutake Hayashi			
	Paper No.	Authors	Title		
15:00~15:20	4	Toru Yamamoto and Syuhei Ninomiya	Flat Machining Test for five-axis Machining Center		
15:20~15:40	20	Chao Chen, Tohru Ishida, Shengdun Zhao, Xiaolan Han and Xuzhe Zhao	Numerical and experimental investigations of the two-step clinching process		
15:40~16:00	33	Tomohiro Matsuno, Koji Akashi, Akira Shinozaki and Kenya Urabe	Development and research of a cutting force reduction tool on cutting mechanism		
16:00~16:20	37	Mohd Amri Sulaiman, Mat Siti Asiyah, Mohd Razak Shahmi, Ramle Zuraimi, E. Mohamad, Mohd Shukor Salleh, Saifudin Hafiz Yahaya and Mohd Rizal Salleh	Cryogenic as alternative cooling method during turning titanium alloy: A review		
16:45~17:55		Parallel Session [C3]		Material Processing	
Chair		Toshiro Kobayashi			
	Paper No.	Authors	Title		
16:45~17:05	15	Mohd Shukor Salleh, Mohamad Ridzuan Mohamad Kamal, Saifudin Hafiz Yahaya, Mohd Amri Sulaiman, Mohamad Ridzuan Jamli and Effendi Mohamad	The effect of semisolid forming on the microstructure and mechanical properties of Al-Si-Cu containing 1.0wt% and 1.5wt% Mg		
17:05~17:25	45	Nur Izan Syahriah Hussein, Mohamad Nizam Ayof and Mohd Kamarul Shaufi Rasidi	Microhardness of Nickel Tungsten Carbide Overlay on Gray Cast Iron using Gas Metal Arc Welding for Hardfacing Process		
17:25~17:45	56	Mohd Fadzli Bin Abdollah, Dayang Nor Fatin Mahmud, Nor Azmami Bin Masripan, Noreffendy Tamaldin and Hilmi Amiruddin	Wear failures analysis of a palm kernel activated carbon reinforced polymeric composite		

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Room C1

10:30~12:00 Parallel Session [A4]		Human interface 2 Human-Robot Interface	
Chair		Masashi Okubo	
	Paper No.	Authors	Title
10:30~10:50	22	Kaori Ikeda, Yutaka Ishii and Tomio Watanabe	Development of a Handwave Robot Expressing Intentions with Hand-waving
10:50~11:10	32	Kazuki Hiranai and Akihiko Seo	Analysis method of neck motion based on feature extraction by using motion division
11:10~11:30	35	Kazuya Tanaka, Tomio Watanabe and Yutaka Ishii	Development of an Immersive Presentation Experience System that Audience Characters Nod for Lecturer's Utterance
11:30~11:50	43	Syamimi Shamsuddin, Ume Nur Ashikien M. Azhar, Winal Zikril Zulkifli and Seri Rahayu Kamat	Kansei Emotions on Human-robot Interaction with Humanoid Robot NAO at Kindergarten Setting
14:30~15:40 Parallel Session [A5]		Human interface 3 Man-Machine Interface	
Chair		Tomio Watanabe	
	Paper No.	Authors	Title
14:30~14:50	14	Kemal Mert Dogan, Hiromasa Suzuki, Erkan Gunpinar and Hiroyuki Katayama	Eye Tracking Aided Survey (ETAS) for Evaluation of Yacht Hull Design Parameters
14:50~15:10	36	Keiichi Muramatsu, Yuya Fujimura, Kazunori Kaede and Keiichi Watanuki	Analysis of Brain Activation and Confidence in Taking Multiple Choice Questions
15:10~15:30	49	Masashi Okubo and Yukari Mizuno	Influence of Interactive Learning Support System Using Augmented Reality on Acquisition of 3D Object Drawing

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Room C2

10:30~12:00 Parallel Session [B4]		Innovative Design & Management 3	
Chair		Keiichi Watanuki	
	Paper No.	Authors	Title
10:30~10:50	52	Fara Ashikin Binti Ali, Hiroyuki Yotsuyanagi, Masaki Hashizume and Shyue-Kung Lu	Capacitive Open Defect Detection with a Built-in Test Circuit for Electrical Interconnect Tests in Assembled PCBs
10:50~11:10	5	Naoki Horiguchi, Kazuki Ohtsubo and Satoru Yoneyama	A study on automatic analysis logic for restoring failure on mold manufacturing to know-how
11:10~11:30	30	Muhamad Arfauz A Rahman, Qiu Mei Tai, Effendi Mohamad, Azrul Azwan Abdul Rahman, Silah Hayati Kamsani, Mohd Rizal Salleh and John P.T. Mo	Cloud-based Product Information Framework using Near Field Communication Technology
11:30~11:50	44	Kaoru Mitsuhashi	Suggestion of creating the 3D universal design model using 3D direct Drawing by ARToolKit
14:30~15:40 Parallel Session [B5]		Innovative Design & Management 4	
Chair		Masato Inoue	
	Paper No.	Authors	Title
14:30~14:50	2	Nobuhiro Sugimura, Tomotaka Yamada, Naoki Satonaka, Koji Iwamura, Wiroj Thasana and Ryo Takematsu	A Study on Tolerances Design of Parallel Link Robots
14:50~15:10	53	Masaki Shiraishi, Geunho Lee and Takuma Idogawa	Axle Translation Based Step-Climbing Wheel Mechanism for Existing Passive Assist Devices
15:10~15:30	47	Toshiro Kobayashi, Masataka Fujiwara, Motomichi Yamamoto, Uichi Utsumi and Masayuki Takeuchi	Comparison between a simplified model and 3D structural simulation on the deformation of a bellows type bending soft actuator

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Room C3

10:30~12:00	Parallel Session [C4]	Manufacturing Systems 1	
	Chair	Akira Tsumaya	
	Paper No.	Authors	Title
10:30~10:50		7 Rahimah Abdul Hamid and Teruaki Ito	Feasibility study on B-code generation method for CNC dental wire bending operation
10:50~11:10		24 Masaki Ogawa, Hideki Aoyama and Noriaki Sano	Basic Study on Automatic Determination of Injection Conditions Based on Automatic Recognition of Forming States
11:10~11:30		25 Mohd Sanusi Abdul Aziz, Tohru Ishida, Yusuke Kaide, Chonggang Kim, Akira Mizobuchi and Yoshimi Takeuchi	Automated Teaching Process in Teaching Playback Method for Curved Hole Electrical Discharge Machining
11:30~11:50		48 Wiroj Thasana	A Comparison between Simulation and Experiment of Virtual Turning Processes Considering Kinematic Motion Deviations
14:30~15:40	Parallel Session [C5]	Manufacturing Systems 2	
	Chair	Koji Iwamura	
	Paper No.	Authors	Title
14:30~14:50		38 Kam Choi Ng, Kuan Eng Chong and Fazidah Ithnin	Achieving and sustaining manufacturing operations excellence through overall equipment effectiveness
14:50~15:10		39 Mohd Rizal Salleh, Ravichandran Nagalingam, Effendi Mohamad, Muhamad Arfauz A Rahman, Saifudin Hafiz Yahaya, Mohd Amri Sulaiman and Teruaki Ito	Enhancing Manufacturing Efficiency through Excellence Operating System (EOS)
15:10~15:30		55 Chunyan Wu and Akira Tsumaya	Evaluation method of life cycle assessment for sustainable manufacturing system with platform and add on modules