

Session ID	Paper title	Authors/Chairmen
<b>Room A</b>		
S1	Special lecture (Oct.29, 9:00-9:30)	Haruo Shimosaka (Meiji University, Japan)
S1	A Reflection on the History of Mechanical Design Education in Japan	Hiroshi Maki (Tokyo University of Science, Japan)
K1	Keynote speech (Oct.29, 10:00-10:30)	Hirokazu Shimoda (Meiji University, Japan)
84	K01 On the Development of Engineering Design Science	Imre Horváth (Delft University of Technology, Netherlands)
A1	Design strategy (Oct.29, 10:40-11:40)	W. Ernst Eder (Royal Military College of Canada, Canada) and Yoshiyuki Matsuoka (Keio University, Japan)
3	A01 Design Formation and Factors for IT Space – Space Design Featuring Mechanical Engineering –	Akiko Watanabe (Keio University, Japan)
22	A02 Basic Study on Classification Scheme for Robust Design Methods	Takeo Kato (Keio University, Japan), Tetsuo Ikeyama and Yoshiyuki Matsuoka
41	A03 Engineering Design Methodology – A Real Need	W. Ernst Eder (Royal Military College of Canada, Canada)
A2	Design process (Oct.29, 13:00-14:20)	Stanislav Hosnedl (University of West Bohemia, Czech Republic) and Akiko Watanabe (Keio University, Japan)
24	A04 Research for Environmental Design to Enter Information with Reassurance in Public Spaces	Yusuke Goto (Keio University, Japan), Akiko Watanabe, Shigeyoshi Izuka (NTT Cyber Solutions Laboratories, Japan) and Katsuhiko Ogawa
26	A05 A Design System Referencing Morphogenesis of Organism	Masato Inoue (Keio University, Japan), Koichiro Sato and Yoshiyuki Matsuoka
15	A06 Engineering Design Science based Design Research for Design Education and Practice	Stanislav Hosnedl (University of West Bohemia, Czech Republic) and Vaclav Vanek
81	A07 Instruments for the Planning of Development-processes	Alexander Redenius (University of Paderborn, Germany) and Daniel Steffen
A3	Design and evaluation (Oct.29, 14:40-16:20)	Masatsune Imabuchi (Nihon University, Japan) and Tamotsu Murakami (The University of Tokyo, Japan)
14	A08 Computational Methodology of Universal Design for Quantitative User Diversity	Tamotsu Murakami (The University of Tokyo, Japan), Masatoshi Deguchi (Tokyo Electric Power, Japan) and Yusuke Jin (The University of Tokyo, Japan)
45	A09 Design of Aesthetically Appealing Hermetic Cases	Oliver Fenech (University of Malta, Malta) and Jonathan C. Borg
30	A10 A Visual Analysis of the Diamond-shaped Turret Located in the Secondary Enclosure of Kanazawa Castle	Satoshi Suematsu (Kanazawa Institute of Technology, Japan)
18	A11 Significance of Human Factors in Ship Design Evaluation	Roozbeh Panahi (Sharif University of Technology, Iran) and Mohammad Saeed Seif
60	A12 Leonardo da Vinci's Proportion Principle in the Last Supper A Study of the Golden Section on His Linear Perspectives	Soici Mukogawa (Kanazawa Institute of Technology, Japan)
K3	Keynote speech (Oct.30, 8:40-9:10)	Kazuteru Nagamura (Hiroshima University, Japan)
67	K03 Technical Trends in Ball Screws	Hirokazu Shimoda (Meiji University, Japan)
A4	Design of Transmissions (Oct.30, 9:20-11:00)	Tomoko Hirayama (Doshisha University, Japan) and Katsumi Inoue (Tohoku University, Japan)
39	A13 Development of a Plastic Magnet Transfer Mechanism	Akira Shoji (Miyagi National College of Technology, Japan), Shinji Ochi, Hiroyuki Hachiya and Giichi Kawashima (Sumitomo Bakelite, Japan)
56	A14 Analysis on Tension Distribution of Twofold Winding Belts	Weiming Zhang (Osaka Institute of Technology, Japan) and Tomio Koyama
59	A15 A Fundamental Study on Jumping in Synchronous Belt Drives (Mechanisms of Jumping)	Tomio Koyama (Osaka Institute of Technology, Japan), Weiming Zhang, Masanori Kagotani (Osaka Sangyo University, Japan), Yoshihisa Hayano (Fuji Seal, Japan)
68	A16 Study on Slip Ratio and Stall Torque for 3K Type Traction Drive CVT	Yohei Chimoto (Doshisha University, Japan), Kikuo Okamura (Motron Drive, Japan), Takashi Matsuoka (Doshisha University) and Tomoko Hirayama
69	A17 Influence of Spin on Efficiency of 2K-H Type Traction Drive CVT	Yoshikazu Tanaka (Doshisha University, Japan), Kikuo Okamura (Motron Drive, Japan), Takashi Matsuoka (Doshisha University) and Tomoko Hirayama
K5	Keynote speech (Oct.31, 8:30-9:00)	Shigeo Hirano (Musashi Institute of Technology, Japan)
91	K05 Spatial Involute Gearing – A New Type of Skew Gears	Hellmuth Stachel (Vienna University of Technology, Austria)
A5	Gearing (Oct.31, 9:10-10:10)	Akira Yoshida (Okayama University, Japan) and Kazuteru Nagamura (Hiroshima University, Japan)
72	A18 Design and Performance of Trochoid Gear Pumps	Kazuteru Nagamura (Hiroshima University, Japan), Kiyotaka Ikeyo, Yo Morotomi (Bridgestone Corp., Japan)
47	A19 Dynamic Test	Tadayoshi Ohisa (Miyagi National College of Technology, Japan), Akira Shoji, Masaru Isago (Iwate University, Japan), Eichiro Ojima (Rengo, Japan) and Katsumi Inoue (Tohoku University, Japan)
38	A20 Contact Fatigue Life Assessment of Induction-Hardened Sintered Gears Based on Fracture Mechanics	Yuji Ohue (Kagawa University, Japan), Masanori Seki (Okayama University, Japan) and Akira Yoshida
A6	Mechanical elements with balls and rollers (Oct.31, 10:30-11:50)	Hirokazu Shimoda (Meiji University, Japan), Yasuaki Hiroo (Kurume National College of Technology, Japan)
1	A21 Prototype and Evaluation of Performance for Pivot Bearings with Multiple Degrees of Freedom	Shoji Noguchi (Tokyo University of Science, Japan), Tohru Kanada (Kanto Gakuin University, Japan), Masakazu Ohnuki and Fumika Suzuki
44	A22 Rolling Bearing Diagnostics Based on Wavelet Analysis	Yugo Itakura (Hiroshima University, Japan), Yasuhisa Sekiguchi and Noritoshi Nakagawa
61	A23 Influences of Bearing Surface Configuration of Bolt Head on Self-Loosening under Transverse Vibration	Shinji Hashimura (Kurume National College of Technology, Japan) and Yasuaki Hiroo
66	A24 Evaluation of Ball Screw Accuracies by CNC 3-D CMM	Hirokazu Shimoda (Meiji University, Japan)
<b>Room B</b>		
B1	Machine tools (Oct.29, 10:00-10:40)	Hideki Aoyama (Keio University, Japan)
4	B01 Robust Conceptual Design of Machine Tools	Nozomu Mishima (National Institute of Advanced Industrial Science and Technology, Japan)
64	B02 Wear Characteristics of Diamond Tool in Cutting of Al-17mass%Si Alloy	Tadahiro Wada (Nara National College of Technology, Japan), Junsuke Fujiwara (Osaka University, Japan) and Hideki Koizumi
B2	Thermal and eco design (Oct.29, 11:00-12:00)	Kenichi Kobayashi (Meiji University, Japan)
5	B03 New Design Evaluation of Thermal Efficiency in Automobile Engine	Hajime Kishida (Meijo University, Japan), Kohei Nakashima, Masao Yoshida and Soichi Ishihara
57	B04 Possibilities of Alternative Energy Systems: Three Design Cases Presenting the Possibilities of Human-power in Eco-design	Arjen Jansen (Delft University of Technology, Netherlands)
83	B05 Evaluation of Environmental Burden for Product Design	Kazuya Oizumi (Keio University, Japan) Hiromitsu Kinoshita and Naohika Tokuoka
B3	CAD/CAM (Oct.29, 13:00-14:20)	Feng GAO (Nishinippon Institute of Technology, Japan) and Tsutomu Araki (Tsukuba College of Technology, Japan)
40	B06 CAD System to Create Surfaces with Characteristic Lines	Mai Ohno (Keio University, Japan) and Hideki Aoyama
62	B07 Geometrical Optimum Design of TLP Using Genetic Algorithm Method	Mohammada Saeed Seif (Sharif University of Technology, Iran), M. R. Tabeshpour A. A. Golafshani and M. H. Davoodi
78	B08 Suggestions for Design Information in Production Sections	Engineering, Japan)
76	B09 High Precision Milling for Mold Surface by Using Inclined Z-map Model – Computer Simulation and Evaluation –	Feng Gao (Nishinippon Institute of Technology, Japan)
B4	Design and modeling of curves and surfaces (Oct.29, 14:40-15:40)	Keiichi Watanuki (Saitama University, Japan)
11	B10 Quantitative Representation Method of Complexity and its Application for Shape Generation	Yoshiki Ujiie (Keio University, Japan), Takashi Asanuma and Yoshiyuki Matsuoka
17	B11 Real-time 3D Solid Model Automatic Reconstruction from the Engineering Drawing in AutoCAD	Zhe Wang (Manchester Metropolitan University, UK) and Mohammed Latif
21	B12 Curve Design Using the Method of Representing Macroscopic Shape Feature "Complexity"	Yuta Ikemachi (Keio University, Japan), Yoshiki Ujiie and Yoshiyuki Matsuoka
K4	Keynote speech (Oct.30, 8:00-8:30)	Naohika Tokuoka (Keio University, Japan)
80	K04 Consideration about Connection of Design Technology and Engineering Ethics	Shigeo Hirano (Musashi Institute of Technology, Japan) and Isamu Sakamoto (Osaka Sangyo University, Japan)
B5	e-learning and design methodology (Oct.30, 8:40-10:00)	Keiichi Watanuki (Saitama University, Japan) and Kazuki Takenouchi (Kyushu University, Japan)
20	B13 Development of an E-learning Solution in 3D CAD Operation for Design Class	Nobuhiro Kato (Kinki University, Japan), Masao Fujii, Shinya Taguchi (Mitsubishi Electric, Japan) and Takaki Shimizu
82	B14 A Trial of Exercise of Computational Mechanics by Using Spreadsheet Software	Kazuki Takenouchi (Kyushu University), Tomoaki Fuji and Hidechito Hayashi (Nagasaki University, Japan)
85	B15 Virtual Reality Based Knowledge Transfer for Advanced Casting Skills	Keiichi Watanuki (Saitama University, Japan) and Kazuyuki Kojima
27	B16 Shape Design Based on a New View of Gestalt	Takashi Asanuma (Keio University, Japan), Yoshiki Ujiie and Yoshiyuki Matsuoka
B6	Robotics (Oct.30, 10:20-11:40)	Koki Kikuchi (Chiba Institute of Technology, Japan) and Nobuyuki Iwatsuki (Tokyo Institute of Technology, Japan)
32	B17 Stabilization Control of Wheeled In-pipe Mobile Robot	Nobuyuki Iwatsuki (Tokyo Institute of Technology, Japan), Daisuke Matsuura, Koichi Morikawa, Yuki Miyashita, Iwao Itoh (Kansei, Japan) and Fumimasa Kitamura
53	B18 A Research Report about the Outdoor Service Robot OSR-01	Takashi Kondo (Kyushu Institute of Technology, Japan), Takeshi Nishida, Masayuki Obata (Yasukawa Information Systems, Japan) and Fujio Okawa (Kyushu Institute of Technology, Japan)
43	B19 Symmetry in Design of Evolutionary Robotic System	Koki Kikuchi (Chiba Institute of Technology, Japan), Katsuya Kanai, Keisuke Somiya, Xueshan Gao and Hiroshi Kobayashi
55	B20 Development of a Small-Sized Flapping Robot	Takamasa Udagawa (Chiba Institute of Technology), Taro Fujikawa, Xueshan GAO and Koki Kikuchi
B7	Accuracy and measurement (Oct.31, 8:30-9:30)	Tohru Kanada (Kanto Gakuin University, Japan)
6	B21 The Influences of Environmental Heat Flux on CMM Measurement Error	Takeshi Wago (Iwate Industrial Research Institute, Japan), Zenichi Miyagi (Meiji University, Japan) and Jiro Matsuda (National Institute of Advanced Industrial Science and Technology, Japan)
88	B22 Uncertainty Assessment on the Configuration of a Mechanical Assembly According to Tolerance Specifications in Design	Andrea Magalini (Universita degli Studi di Brescia, Italy), David Vettori and Luca Pagan (Alenia Spazio, Italy)
70	B23 Displacement Measurement in the Whole View Field Using Random Pattern (Template Matching with High Accuracy)	Akira Kato (Chubu University) and Rie Funatani
B8	Design of mechanisms (Oct.31, 9:50-11:30)	Hidetsugu Terada (Yamanashi University, Japan), Mikio Horie (Tokyo Institute of Technology, Japan)
16	B24 Design and Development of Spring-Link Mechanism with the Constant Repulsive Force Characteristics	Kazuki Kaneoka (Hiroshima University, Japan), Noritoshi Nakagawa and Yasuhisa Sekiguchi
89	B25 Micromanipulators Composed of Flexural Hinges, Large-Deflective Elastic Hinges, and Large-Deflective Hinges	Mikio Horie (Tokyo Institute of Technology, Japan)
19	B26 Dynamic Considerations of the Straight-Line Motion Mechanism Applied to a Rowing Boat	Kazuo Yae (Kyushu Tokai University, Japan)
7	B27 Design and Evaluation of Automatic Page Turning Machine Applicable to Various Books using a Tactile Sensor-Integrated Roller	Tomoya Masuyama (Tohoku University, Japan), Katsumi Inoue, Masakuni Matsuzawa (JR East, Japan), Kunio Fukatsu (Toshiba Social Automation Systems, Japan), Atsushi Ina and Masao Obama
28	B28 Study of a Walk-Assisting System for Rehabilitation (1st report) Development of a Knee-supporting Mechanism	Hidetsugu Terada (Yamanashi University, Japan), Yohei Nunokawa, Hirotaka Mochizuki and Shojiro Wakabayashi (Suncall Engineering Corp., Japan)
B9	Rheology and Tribology (Oct.31, 13:00-15:00)	Kazuyoshi Nishihara (Osaka Electro-Communication University, Japan) and Norio Tagawa (Kansai University, Japan)
58	B29 The Numerical Simulation of Decompression Process with Multicomponent Gas in Very High Pressured Natural Gas Pipeline	Tomoe Oda (Ochanomizu University, Japan), Yoshiaki Tamura (Toyo University, Japan) and Tetuya Kawamura (Ochanomizu University, Japan)
42	B30 Spreading of Binary Blend of Molecularly Thin Perfluoropolyether Lubricant Films on Carbon Surfaces	Norio Tagawa (Kansai University, Japan), Atsunobu Mori, Nagayoshi Kobayashi (Matsumura Oil Research Corp., Japan), Yoshinobu Fujii and Msako Ikegami
75	B31 A Simple Analysis Method for the Aerodynamic Characteristics of a Running Motor Cycle	Chihiro Ono (Toyo University, Japan) and Yoshiaki Tamura
86	B32 Cross-Flow Fan Noise Reduction	Yusuke Nakahata (Osaka Electro-Communication University, Japan), Charles W. Knisely (Bucknell University, USA), Kazuyoshi Nishihara (Osaka Electro-Communication University, Japan)
9	B33 Development of Aerodynamic Foil Bearing for Micro Gas Turbine	Kazuhiko Hayashi (Osaka Sangyo University, Japan), Keiji Hirasata and Mayu Hotta
87	B34 An Experiment on the Transition to Turbulence in an Accelerating Pipe Flow	Yusuke Nakahata (Osaka Electro-Communication University, Japan), Charles W. Knisely (Bucknell University, USA), Kazuyoshi Nishihara (Osaka Electro-Communication University, Japan) and Takeo Nishitani
<b>Room C</b>		
K2	Keynote speech (Oct.29, 10:00-10:30)	Shigeo Hirano (Musashi Institute of Technology, Japan)
90	K02 Descriptive Geometry Education in 3D-CAD Era	Kenjiro Suzuki (The University of Tokyo, Japan)
C1	Creative design education (Oct.29, 10:40-12:00)	Kazuhiro Hamaguchi (Meisei University, Japan) and Tsutomu Araki (Tsukuba College of Technology, Japan)
37	C01 The Good Result of Independent Project Activities by Students and the New Prospect of Creativity Education	Satoshi Kiriya (The University of Tokushima, Japan), Yuichi Ikeda, Hironobu Houda, Kazuya Kusaka, Masanobu Haraguchi and Takao Hanabusa
65	C02 A Problem-finding and Problem-solving Oriented Engineering Experiment Course Focused on the Fundamentals of the Experimental Method	Nobuyuki Kitashoji (Kanazawa Institute of Technology, Japan) and Eiichi Sentoku
48	C03 Education for Machine Design Using Model Stirling Engine	Kazuhiro Hamaguchi (Meisei University, Japan), Shinichiro Itaya, Yoichi Nakao and Rikunosuke Tsunehiro
50	C04 Fast Walking Control of Four-legged Robot to Attend "RoboCup"	Yasunobu Uchino (Kanto Gakuin University, Japan) and Tohru Kanada
C2	Design and drafting education (Oct.29, 13:00-14:40)	Tohru Kanada (Kanto Gakuin University, Japan) and Shigeo Hirano (Musashi Institute of Technology, Japan)
46	C05 Policy of Curricula for Design & Drafting Engineering (Policy of Lecture & Practice in Design & Drafting for General Engineering Course)	Hironobu Nuriya (Nihon University, Japan) and Masatsune Imabuchi
51	C06 Basic Mechanical Drawing Course at Kanazawa Institute of Technology	Sumio Nakamura (Kanazawa Institute of Technology, Japan) and Eiichi Sentoku
63	C07 Considerations on Introducing Process for 3-D CAD Graphic Education	Masatsune Imabuchi (Nihon University, Japan)
79	C08 Style of Classes on Principles of Manufacturing Products –Characteristics of Seminars in General Education and Achievements–	Shigeo Hirano (Musashi Institute of Technology, Japan), Masahiro Doi, Sadao Murahata and Minoru Fujita
10	C09 Environment Problem and Design Education	Kazumi Murakami (Osaka Sangyo University, Japan), Shigeaki Yokota (Artnr, Japan) and Isamu Sakamoto (Osaka Sangyo University, Japan)
C3	Solid mechanics and design (Oct.29, 15:00-16:20)	Seiichi Nishimura (Osaka Sangyo University, Japan) and Tadashi Horibe (Ibaraki University, Japan)
8	C10 Development of Productions by "A New Smart Compact Method" Based on Computer Aided Engineering (CAE) – CAE Leads to Design –	Toshiaki Sakurai (Iwaki Meisei University, Japan)
49	C11 Stresses Around a Hole in an Infinite Strip Subjected to Uniformly Distributed Side Pressure	Tadashi Horibe (Ibaraki University, Japan), Kuniaki Takahashi
74	C12 Analysis of Ultrasound Propagation for the Development of the Noninvasive Oncotherapy Device	Yusuke Nakajima (Toyo University, Japan), Yoshiaki Tamura, Yukio Kaneko (The University of Tokyo) and Yoichiro Matsumoto
13	C13 Experimental Study on Creep Characteristics between Full-Scale Wheel and Rail	Yasushi Oka (Sumitomo Metal Technology, Japan), Seiichi Nishimura (Osaka Sangyo University, Japan), Isamu Sakamoto and Kouzo Sugiyama