

Time Schedule for IS2EMU2012

<div style="text-align: center;">Day & Time</div> <div style="text-align: center;">Research Area</div>	First Day (1st November)								
	08:30 - 09:00 (30 minutes)	09:00 - 09:30 (30 minutes)	09:30 - 09:45 (15 minutes)	Technical Session I 09:45-11:45 (2 hours)	11:45-12:45 (1 hour)	Technical Session II 12:45-14:45 (2 hours)	14:45-15:00 (15 minutes)	Technical Session III 15:00-17:00 (2 hours)	17:30 - 19:30 (2 hours)
A Oral : 39	Registration (Meeting Room L)	Opening Remarks (Meeting Room L)	Coffee Break	[9:45 - 11:45] Oral Session AO-I (Room 14)	Lunch	[13:30 - 14:30] Invited Session A-I (Room 10)	Coffee Break	[15:00 - 17:00] Oral Session AO-II (Room 10)	Welcome Dinner Hosted by Dean of Eng. (University Canteen)
B Oral : 19				[Reserve Slot]		[12:50 - 14:40] Oral Session BO-I (Room11)		[15:00 - 16:40] Oral Session BO-II (Room11)	
C Oral : 29 Poster : 23				[09:45 - 11:45] Oral Session CO-I (Room 12)		[12:45 - 14:45] Oral Session CO-II (Room 13)		[15:00 - 17:00] Oral Session CO-III (Room 13)	
D+F Oral : 6+5 Poster : 13+35				[09:45 - 11:00] Short Presentation for Poster Session (Meeting Room L)		[12:45 - 14:45] Invited Session DF (Room 24)		[15:00 - 17:00] Oral Session DFO-I (Room 24)	
E Poster : 30				[Reserve Slot]		[Reserve Slot]		[Reserve Slot]	
G Oral : 9 Poster : 30				[Reserve Slot]		[Reserve Slot]		[15:00 - 16:00] Invited Session G (Room 1)	
Internship Program Poster : 25				[Reserve Slot]		[Reserve Slot]		[Reserve Slot]	

Time Schedule for IS2EMU2012

<div>Day & Time</div> <div>Research Area</div>	Second Day (2nd November)							
	Technical Session IV		12:00-13:00 (1 hour)	Technical Session V		16:00 - 16:30 (30 minutes)	16:30 - 17:30 (1 hour)	18:00 - 20:00 (2 hours)
	09:00-12:00 (3 hours)			13:00-16:00 (3 hours)				
A Oral : 38	[09:00 - 11:36] Oral Session AO-III (Room 18)		Lunch	[13:00 - 14:24] Oral Session AO-IV (Room 15)	[15:00 - 16:00] Invited Session A-II (Room 15)	[16:00 - 18:00] Special Event (Room 15) Visual-Haptic Communication between Padova University and Mie University		
B Oral : 19	[9:00 - 10:00] Invited Session B (Room 11)			[Reserve Slot]		Coffee Break Nomination of Students for Best Presentation Award in Each Research Area	Summarization of Symposium/ Best Presentation Award/ Closing Remarks/ Memorial Collective Photo (Meeting Room L)	Farewell Dinner Hosted by Dean of Eng. (Off Campus)
C Oral : 29 Poster : 23	[9:00 - 10:30] Invited Session C (Room 12)	[10:40 - 12:00] Short Presentation for Poster Session (Room 12)		[13:00 - 14:30] Poster Session CP-I (Sansui Foyer)				
D+F Oral : 6+5 Poster : 13+35	[9:00 - 12:00] Poster Session DFP-I (Sansui Foyer)			[13:00 - 16:00] Poster Session DFP-II (Sansui Foyer)				
E Poster : 30	[9:30 - 10:00] Invited Session E (Room 24)	[10:20 - 11:40] Short Presentation for Poster Session (Room 24)		[13:00 - 15:00] Poster Session EP-I (Sansui Foyer)				
G Oral : 9 Poster : 30	[10:00 - 12:05] Oral Session GO-I (Room 1)			[13:30 - 15:00] Poster Session GP-I (Sansui Foyer)				
Internship Program Poster : 25	Poster Session IP-I (Sansui Foyer)			Poster Session IP-II (Sansui Foyer)				

Invited Session

Speeches by Invited Speakers

Research Area A

A- I

November 1 13:30 – 14:30 Room 10

Speaker: Professor Dr. Abderrahmane Kheddar

CNRS-AIST Joint Robotics Laboratory and CNRS-UM2 LIRMM,
Interactive Digital Human group, Montpellier, France

Title: Contact Humanoid

A- II

November 2 15:00 – 16:00 Room 15

Speaker: Professor Dr. Kouhei Ohnishi

Keio University, Department of System Design Engineering

Title: Real-world Haptics for Future Society

Research Area B

November 2 9:00 – 10:00 Room 11

Speaker: Dr. Eric Hu

Associate Professor, School of Mechanical Engineering, The University of Adelaide, Australia

Title: R&D in Energy and Sustainability Related Area

Research Area C

November 2 9:00 – 10:30 Room 12

Speaker: Professor Umapada Pal

Indian Statistical Institute, India

Title: Recent Trends in Document Image Analysis

Invited Session

Speeches by Invited Speakers

Research Area D & F

November 1 12:45 – 14:45 Room 24

12:45 – 13:45

Speaker: Dr. David Geoffrey Vince

Chairman, Department of Biomedical Engineering,
Lerner Research Institute, Cleveland Clinic, USA

Title: Breakthroughs in Biomedical Engineering

13:55 – 14:45

Speaker: Ms. Catherine Root

BME Education Coordinator, Lerner Research Institute, Cleveland Clinic, USA

Title: Welcome to Cleveland Clinic: How, Why, and What?

Research Area E

November 2 9:30 – 10:00 Room 24

Speaker: Dr. Tadao Hashimoto

CEO/CTO SixPoint Materials, Inc., USA

Title: Comparison of Start-up Environment between US and Japan

- From A Case Study of SixPoint Materials, Inc. –

Research Area G

November 1 15:00 – 16:00 Room 1

Speaker: Dr. Harris Mouzakis

Laboratory for Earthquake Engineering, National Technical University of Athens, Greece

Title: Seismic Response of Historical Masonry Buildings



Robotics & Mechatronics

Oral Presentation

Research Area A

Oral Presentations

Technical Session AO-I

November 1, 9:45 - 11:45, Room 14

Satoshi Komada, chair

- AO-1 Position and Stiffness Control by 2Link 6Tendon Mechanisms with Nonlinear Spring SAT
Ryutaro Douzaki, Satoshi Komada and Junji Hirai
- AO-2 Control of Musculoskeletal Arm using a Visual Space
Kento Hashimoto, Satoshi Komada, Daisuke Yashiro and Junji Hirai
- AO-3 Study on Characteristic Improvement of Suppression Control System of PMSM Torque Ripple by Axial Torque Feed back
Kenta Nagai and Muneaki Ishida
- AO-4 Motion Curve Optimization for Bottle Conveyance Using Computational Fluid Dynamics Simulation
Ken'ichi Kanazawa and Ken'ichi Yano
- AO-5 Optimization of Plunger Tip shape Based on Damage Estimation Using Linear Cumulative Damage Law
Yuto Takagi and Ken'ichi Yano
- AO-6 Construction of Fault-tolerant Control System for a Force Sensor Fault in a Reconfigurable Robot
Taku Ogita, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai
- AO-7 Analysis of Power Smoothing System using Electric Double Layer Capacitor for Micro-grid system
Hidetoshi Hayashi, Naoki Yamamura and Muneaki Ishida
- AO-8 Design of a PID Controller based on H^∞ Loop Shaping Method using Frequency Responses
Akihiro Doi, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai
- AO-9 Development of the small scale wind power generating device connected directly to the solar power generation system
Masashi Samizo, Naoki Yamamura and Muneaki Ishida
- AO-10 New Method for Liquid-Medication Filling Systems
Koji Miyashita, Ken'ichi Kanazawa and Ken'ichi Yano

Research Area A
Oral Presentations
Technical Session AO-II

November 1, 15:00 - 17:00, Room 10

Soichiro Hayakawa, chair

- AO-11 Autonomous Vehicles Deceleration Control System using Multi-Mode Driver Behavior Model based on a Hybrid System
Ryosuke Horiki, Soichiro Hayakawa, Ryojun Ikeura and Hideki Sawai
- AO-12 Evaluation of Probabilistic Driving Decision Model Based on Logistic Regression Model
Hikaru Sahashi, Soichiro Hayakawa, Ryojun Ikeura and Hideki Sawai
- AO-13 Research for improvement of map accuracy for ICL-SLAM using the line quality
Mitsuhiro Terada, Satoshi Komada, Daisuke Yashiro and Junji Hirai
- AO-14 A proposal of a rapid algorithm that finds segments of intersections
Yusuke Ikemoto, Hirokazu Matsui and Ken'ichi Yano
- AO-15 Research on torque pulsation detection for PMSM by using acceleration sensor applied on motor frame
Hieu Nghia Nguyen and Muneaki Ishida
- AO-16 A Decision Method of Grasp Position Regions for a Polygonal Shaped Objects using a Grasp Force Evaluation Index Resisting External Force
Keigo Miyajima, Satoshi Komada, Daisuke Yashiro and Junji Hirai
- AO-17 An Estimation Method of Output Force Distribution Considering Variation of Joint Torque of Limbs according to Posture
Kazuyuki Yamamoto, Satoshi Komada, Daisuke Yashiro, Junji Hirai and Akinobu Nishimura
- AO-18 Lower Limb Examinations for Muscular Tension Estimation Methods for Each Muscle Group Based on Functionally Different Effective Muscle Theory
Taiki Nishii, Satoshi Komada, Daisuke Yashiro and Jyunji Hirai
- AO-19 A Restrained Torque-based Motion Instructor: Forearm Flexion/Extension-driving Exoskeleton
Takuya Nishimura, Yoshihiko Nomura and Ryota Sakamoto
- AO-20 Study on Stiffness Control of Tendon Mechanisms with Nonlinear Springs
Hiroyasu Kashiwagi, Satoshi Komada, Daisuke Yashiro and Junji Hirai

Research Area A

Oral Presentations

Technical Session AO-III

November 2, 9:00 - 11:36, Room 18

Norihiko Kato, chair

AO-21 A Study on Suppression of Acoustic Noise caused by Torque Pulsation of BLDCM

Satoshi Yada and Muneaki Ishida

AO-22 Study on frame vibration suppression using repetitive control for PMSM which includes mechanical resonance properties

Kosuke Kato and Muneaki Ishida

AO-23 Z-axis rotation control using magnetic levitation

Tatsuya Nobori, Norihiko Kato, Naoaki Tsuda and Ken'ichi Yano

AO-24 Electrical power tracking control method of small wind power generation system

Ryousuke Matsuyama, N.Yamamura and M.Ishida

AO-25 A reduction method of the lower order harmonics in the Line-to-line voltage for reduction of harmonic current slot harmonics in induction motor

Ryo Watanabe and Muneaki Ishida

AO-26 A Vibration A Vibration Suppression Control Method of PMSM with Feed-forward Compensation under Variable Speed Drive

Kazunari Kuroyabu and M. Ishida

Break

Naoki Yamamura, chair

AO-27 Study on the Cooperative Control of the Power Generation System and an Electric Power Compensatory System in Micro Grid

Naoki Doudou, Naoki Yamamura and Muneaki Ishida

AO-28 A Study of Control Method for Three-phase to Single-phase Matrix Converter System With Neutral Line

Taiki Hasama, Naoki Yamamura and Muneaki Ishida

AO-29 Study on Establishment of Electrical Equivalent Model for Development of Fuel Cell Emulator

Satoshi Imamura, Naoki Yamamura and Muneaki Ishida

AO-30 Steady State Characteristics of the Boost-Type Matrix Converter

Keiichiro Hirokado, Naoki Yamamura and Muneaki Ishida

AO-31 Proposal of Simplified Model for Switched Reluctance Generator

Daisuke Ikeda, Naoki Yamamura and Muneaki Ishida

AO-32 Study on practical application of Combined-type Active Filter utilizing Power Amplifier

Atsuhiro Matsuoka, Naoki Yamamura and Muneaki Ishida

Technical Session AO-IV

November 2, 13:00 - 14:24, Room 15

Kazuhiro Yubai, chair

AO-33 A Direct Tuning from Input/Output Data of the Youla Parameter in Consideration of Some Deviated Plants

Ken Sakakibara, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-34 Study on Design of Multivariable Fixed-order Controller Satisfying Robust

Kazuki Senga, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-35 A Study on Design of the Gain-Scheduling Controller Guarantees the Performance Condition on the Nyquist Diagram

Yoshitaka Nishiguchi, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-36 A Shaping of Sensitivity function by H^∞ Model-matching using Medel-free Masataka Ishizaki, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-37 Tuning of Controller Parameters by FCbT with Stability Constraints for Non-minimum Phase Plants

Matsuo Ryota, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-38 Operation Force Reflecting Method in Machining Geometry via Bilateral Machining Support System with Variable Connecting Force

Tsuginobu Osada, Norihiko Kato and Ken'ichi Yano

AO-39 Centralized Controller with Adaptive Controller Based Bilateral Control under Communication Delay

Tadashi Hieno, Daisuke Yashiro, Satoshi Komada and Junji Hirai

Special Event

November 2, 16:00 - 18:00, Room 15

Daisuke Yashiro, chair

"Visual-Haptic Communication between Padova University and Mie University"

Tadashi Hieno, Daisuke Yashiro, Satoshi Komada and Junji Hirai



Environment & Energy

Oral Presentation

Research Area B

Oral Presentations

Technical Session BO-I

November 1, 12 : 50 - 14 : 40, Room 11

Junsuke Murata, chair

- BO-1 Modeling Analysis of Local Heat Transfer in Single Cell of Polymer Electrolyte Fuel Cell
Kazuhiro Iio, Akira Nishimura, Masafumi Hirota and Naoki Maruyama
- BO-2 Investigation on Model of Wind Power Plant Utilizing Wind Blowing through Buildings for Construction of Smart City
Takuya Ito, Akira Nishimura, Junsuke Murata, Toshitake Ando, Yasunari Kamada, Masafumi Hirota and Naoki Maruyama
- BO-3 Evaluation of Local Temperature Distribution of Single Cell of Polymer Electrolyte Fuel Cell and Clarification of Correlation between Heat and Mass Transfer and Power Generation Characteristics
Hiroto Kondo, Akira Nishimura, Masafumi Hirota and Naoki Maruyama
- BO-4 Experimental Study on Gas-Liquid Two Phase Flow Distributions in Multi-pass Channels
Nakagawa Yamato, Masafumi Hirota, Toshiaki Tsuchiya, Naoki Maruyama and Akira Nishimura
- BO-5 Structure Characteristics and CO₂ Reforming Performance of Visible-light-driven TiO₂ Photocatalyst
Katsuya Nakamura, Akira Nishimura, Masafumi Hirota and Naoki Maruyama

Break (13 : 40 - 13 : 50)

Toshitake Ando, chair

- BO-6 Temperature Stabilization of Pulsating Flow in High Temperature Fluctuation Field using Small Coaxial Tube Heat Exchanger
Yuji Masuda, Naoki Maruyama, Kazushige Nagata, Keishiro Hatta, Yukio Ito and Masahumi Hirota
- BO-7 Numerical Analysis on the Wake Velocity Field of Horizontal Axis Wind Turbine by Panel Method
Honami Ota, Takao Maeda, Yasunari Kamada, Junsuke Murata and Shun Nishimura
- BO-8 Study on Flow around Complex Terrain in Turbulent Flow
Kazutoshi Kurogi, Takao Maeda, Yasunari Kamada, Junsuke Murata, Keisuke Yamada and Yusuke Yamagishi
- BO-9 Experimental Study on Flow over Surface of Horizontal Axis Wind Turbine Blades
Daiki Suzuki, Yasunari Kamada, Takao Maeda, Junsuke Murata, Yousuke Kagisaki and Shogo Nishimura
- BO-10 Research on Gasification System using Various Woody Biomass
Kazumasa Seko, Yasunari Kamada, Takao Maeda, Fumitoshi Ikeda, Junsuke Murata and Toma Onodera

Technical Session BO-II

November 1, 15 : 00 - 16 : 40, Room 11

Akira Nishimura, chair

BO-11 Effect of Turbulence Intensity on the Wind Turbine Performance at Low Reynolds Number
Yusuke Nishida, Yasunari Kamada, Takao Maeda, Junsuke Murata and Kohei Iida

BO-12 Field Experiment on Relations between Inflow and Wake
Haruki Hirata, Takao Maeda, Yasunari Kamada, Junsuke Murata, Naoya Mori and Junya Hongo

BO-13 Research on the Straight-Bladed Vertical Axis Wind Turbine in the 2D Unsteady Flow Field
Qing' an Li, Toshiaki Kawabata, Takao Maeda, Yasunari Kamada and Junsuke Murata

BO-14 Numerical Simulation of Nucleate Boiling with Microlayer using Diffuse Interface Model
Yosuke Akatsuka, Koichi Tshujimoto, Toshihiko Shakouchi and Toshitake Ando

BO-15 A Study on the Reduction of the Flow Resistanse of the Turndown Channel due to Small Obstacle
Kenta Ito, Toshitake Ando, Toshihiko Shakochi and Koichi Tsujimoto

Break (15 : 50 - 16 : 00)

Yasunari Kamada, chair

BO-16 Flow Characteristics of Petal-Shaped Free Jet
Shota Iriyama, Toshihiko Shakouchi, Koichi Tsujimoto and Toshitake Ando

BO-17 Structural Analysis of Vector-controlled Jet under a Rotational Mode
Noritaka Shibata, Koichi Tsujimoto, Toshihiko Shakouchi and Toshitake Ando

BO-18 Flow Characteristics of Turbulent Channel Flow with a Flexible Finite-length Square Cylinder
Yusuke Hada, Koichi Tsujimoto, Toshihiko Shakouchi and Toshitake Ando

BO-19 Numerical Simulation of Low Mach Number Acoustics using Modified AVS Scheme with BPM
Tomoaki Miyoshi, Koichi Tsujimoto, Toshihiko Shakouchi and Toshitake Ando



Information Processing & Communications

Oral Presentation

Research Area C

Oral Presentations

Technical Session CO-I

November 1, 9:45 - 11:45, Room 12

Katsuhiro Naito, chair

- CO-1 Proposal of Channel Estimation Method for SC-OFDM Systems in Time-Varying Fading Channel
Tomokazu Yamamoto, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-2 Proposal of Doppler Frequency Spread Estimation Method for OFDM Systems
Tatsuji Miyamoto, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-3 Proposal of PAPR Reduction Method for OFDM Signal in Time-Varying Fading
Tomohito Koike, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-4 Proposal of Nonlinear Distortion Compensation Method for OFDM Systems
Hiroyasu Ando, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-5 Proposal of Doppler Frequency Spread Compensation Method for OFDM Systems
Shunsuke Takeuchi, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi

Break

Yoshikatu Ohta, chair

- CO-6 Implementation of Node Management Scheme in IPv4/IPv6 Networks for NTMobile
Takuya Nishio, Katsuhiro Naito, Hidekazu Suzuki, Akira Watanabe, Kazuo Mori and Hideo Kobayashi
- CO-7 Automatic device grouping scheme based on illuminance for home sensor networks
Fumiaki Mabe, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-8 Implementation of Sensor Network with Sub-Slots Allocation for Collision Avoidance
Yosuke Iwasaki, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-9 Development of the kernel module for Bump in the Stack
Yuta Inoue, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-10 Development of IPv4/IPv6 conversion router
Keisuke Sugita, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi

Technical Session CO-II

November 1, 12:45 - 14:45, Room 13

Wataru Ohyama, chair

- CO-11 From Job Offer Form Automatic Assignment of Character Strings to “Vocational Guidance System”
Masaya Shigenaga, Shinji Tsuruoka, Hiroharu Kawanaka and Haruhiko Takase
- CO-12 Schema Recognition Method Considering Annotation Parts for Medical Document Retrieval Systems
Hiroshi Kajiwara, Hiroharu Kawanaka, Koji Yamamoto, Haruhiko Takase and Shinji Tsuruoka
- CO-13 Document Tagging Method for Low-resolution Medical Documents in Hospitals
Shunta Nakamura, Hiroharu Kawanaka, Shunsuke Doi, Takahiro Suzuki, Katsuhiko Takabayashi, Koji Yamamoto, Haruhiko Takase and Shinji Tsuruoka
- CO-14 Extraction of Disease Area and Measurement of Disease Volume Using Three Dimensional Regional Statistics for OCT Image
Ikunari Nakahara, Shinji Tsuruoka, Haruhiko Takase, Hiroharu Kawanaka, Fumio Okuyama
- CO-15 Automatic Boundary Extracting Method of Retinal Optical Coherence Tomography Image Using Three Dimensional Active Grid
Naoki Takeno, Shinji Tsuruoka, Hiroharu Kawanaka, Haruhiko Takase, Hisashi Matsubara and Fumio Okuyama

Break

Hiroharu Kawanaka, chair

- CO-16 Enhancing the Noise Tolerance of SpikeProp network with Weight Decay
Li Yan, Haruhiko Takase, Hiroharu Kawanaka and Shinji Tsuruoka
- CO-17 Handwritten Keywords Recognition on Blackboard for Tagging Lecture Scenes
Shohei Okuyama, Shinji Tsuruoka, Haruhiko Takase and Hiroharu Kawanaka
- CO-18 Extension of Phrases for Article Determination using WordNet Thesaurus
Hirofumi Hayashi, Hiromi Takeuchi, Hidenori Honma, Atsuo Kawai and Naoki Isu
- CO-19 Probabilistic Rotation Angle Estimation of 3D Rotated Characters
Ryo Narita, Wataru Ohyama, Tetsushi Wakabayashi and Fumitaka Kimura
- CO-20 Automatic Chinese Text Classification Using Character-based and Word-based
Xi Luo, Wataru Ohyama, Tetsushi Wakabayashi and Fumitaka Kimura

Technical Session CO-III

November 1, 15:00 - 17:00, Room 13

Haruhiko Takase, chair

- CO-21 Design and Implementation of Multi-dimensional TaskArray for MegaScript
Takashi Masuda, Akihiro Mita, Masaki Matsumoto, Kazuhiko Ohno, Takahiro Sasaki and Toshio Kondo
- CO-22 A hierarchical scheduler library for workflow model
Kohei Suzuki, Kazuhiko Ohno, Masaki Matsumoto, Takahiro Sasaki and Toshio
- CO-23 A Dynamic Rescheduling Scheme Reducing Scheduling Computation
Masaki Matsumoto, Kazuhiko Ohno, Kohei Suzuki, Takashi Masuda, Takahiro Sasaki and Toshio Kondo
- CO-24 FabHetero: An Environment for Developing Diverse Heterogeneous Multi-core
Tomoyuki Nakabayashi, Takahiro Sasaki, Kazuhiko Ohno and Toshio Kondo
- CO-25 Improved Technique to Reduce Writeback of Variable Level Cache
Ko Watanabe, Takahiro Sasaki, Kazuhiko Ohno and Toshio Kondo

Break

Hideo Kobayashi, chair

- CO-26 Inter-Cell CA Scheme Using Spread Spectrum Technique for Next Generation Mobile Communication Systems
Genta Yoshizaki, Kazuo Mori, Katsuhiro Naito and Hideo Kobayashi
- CO-27 Proposal of ITS Communication Systems by using OFDM-SFN with MRC Technique
Tomoyuki Hagino, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-28 Proposal of Demodulation Method for SC-OFDM Systems under High Speed Mobile Environments
Takuma Kawamura, Katsuhiro Naito, Kazuo Mori and Hideo Kobayashi
- CO-29 Tracking of Local Myocardial Motion on M-mode Echocardiogram by DP-based Elastic Model
Chao Chen, Naoki Maesako, Xi Lou, Wataru Ohyama, Tetsushi Wakabayashi, Fumitaka Kimura and Kiyotsugu Seikioka



Information Processing & Communications

Poster Presentation

Research Area C

Poster Presentations

Technical Session CP-I

Short Presentation for Poster Session

November 2, 10:40 - 12:00, Room 12

Kazuo Mori, chair

Poster Presentation

November 2, 13:00 - 14:30, Sansui Foyer

- CP-1 Improve tolerance for fluctuation of input value in SpikeProp Network with Yuuta Shin, Takase Haruhiko, Kawanaka Hiroharu, and Tsuruoka Shinji
- CP-2 DP-based Motion Tracking for Left Ventricular myocardium and its multi-thread Kazuhisa Murakami, Wataru Ohyama, Tetsushi Wakabayashi, Fumitaka Kiumura and Kiyotsugu Sekioka
- CP-3 Shape of Brillouin gain spectrum under sinusoidal-like strain distribution Yoshiki Hayase and Hiroshi Naruse
- CP-4 Prototype of a Local Strain Detection Device using Planar Lightwave Circuit to Improve the Spatial Resolution of a Long-Range Distributed Fiber Optic Strain Mitsuko Adachi and Hiroshi Naruse
- CP-5 Fabrication and Evaluation of Variable Stages Pipeline Processor Chip Hitoshi Nakamura, Tomoyuki Nakabayashi, Takahiro Sasaki, Kazuhiko Ohno and
- CP-6 Automatic Fruit Grading System Using Principal Component Analysis of Color K.Ito, Wataru Ohyama, Tetsushi Wakabayashi and Fumitaka Kiumura
- CP-7 Adaptive Optimization of Communication on Workflow Runtime System Takayuki Naka, Masaki Matsumoto, Kazuhiko Ohno, Takahiro Sasaki and Toshio
- CP-8 Simplification of Filter Circuit for Evaluation System of Scratching Behavior Yosuke Shiratsuka, Yuichi Noro and Takashi Takeo
- CP-9 On the Improvement of Distributed Hash Table Symphony Rei Tsuzuki, Yoshikatu Ohta and Hidetomo Suzuki
- CP-10 Load buffer with conversion capability from tiled data to raster data for motion Takumi Inomata, Atsushi Tachino, Toshio Kondo, Takahiro Sasaki and Kazuhiko
- CP-11 Localization Using an Acceleration Sensor on a Smartphone Kentaro Kawamura, Niwat Thepvilojanapong, Yoshikatsu Ohta and Hidetomo
- CP-12 Accuracy improvement of signature verification by segmentation verification Yuta.Kamihira, Wataru Ohyama, Tetsushi Wakabayashi and Fumitaka Kiumura

- CP-13 Improvement of AMBA Bus Framework for Heterogeneous Multi-core processor
Yusuke Seto, Takahiro Sasaki, Tomoyuki Nakabayashi, Kazuhiko Ohno, and
- CP-14 Positioning of RFIDs for Managing Medical Instruments in a Hospital by Means of
Kaori Takeda, Masaki Matsuzuki, Yuichi Noro and Takashi Takeo
- CP-15 Effect of an Off-Centered Arrangement in Permeability Measurement Using a
Microstrip Line-Coaxial Conductor Method
Masato Kawaguchi and Takashi Takeo
- CP-16 Measurement of the Magnetic Permeability in a Ferrite Core by Superimposing a
Kousuke Kikuchi and Takashi Takeo
- CP-17 Value-Range Analysis of Programs Incorporating Branch Conditions
Yusuke Ito and Toshiyuki Yamada
- CP-18 Correctness of an Algorithm for Value-Range Analysis
Yuuki Nakagawa and Toshiyuki Yamada
- CP-19 Improving the Precision of Semi Dynamic Program Slicing Method
Takashi Ogami and Toshiyuki Yamada
- CP-20 A HOG based motion recognition method utilizing temporal average and change
Naoto Funahashi, Takuma Sasaki, Hidetomo Suzuki and Yoshikatsu Ohta
- CP-21 Extraction of blood flow areas in MRI heart images with use of the level set method
Kenta Nishikawa, Masanobu Masuda, Hidetomo Suzuki and Yoshikatsu Ohta
- CP-22 Determination Scheme for Histological Classification of Breast Masses by
Objective Features Based on Clinical Features and Statistical Features
Akiyoshi Hizukuri, Ryohei Nakayama, Yumi Kashikura, Hiroharu Kawanaka,
Haruhiko Takase, Tomoko Ogawa, Shinji Tsuruoka
- CP-23 Program Visualization by Integration of Statements Using Comments
Yuki Hashizume and Toshiyuki Yamada



Life Science & Advanced Materials

Oral Presentation

Research Area D & F (tentative schedule)

Oral Presentations

Technical Session DFO-I

November 1, 15:00 - 17:00, Room 24

Nobuyuki Imanishi, Toshikazu Kitagawa, chair

- FO-1 Synthesis of Chiral β -Lactams Using Enantioselective Reduction of Iminocyclobutenones
Akinori Ito, Iwao Hachiya and Makoto Shimizu
- FO-2 Synthesis of Quaternary α -Amino Acid Derivatives Utilizing Tandem Reaction to Iminomalonates
Miki Mushika, Makoto Shimizu
- FO-3 Determination of gold in environmental samples by graphite furnace atomic absorption spectrometry after preconcentration with protain biosorption
Yasuki Tanaka, Hideyuki Katumata, Tohru Suzuki and Satoshi Kaneco
- FO-4 Purification of thiuram-contaminated water using carboxymethyl cellulose stabilized Fe/Ni bimetal nanoparticles
Yuki Matsuura, Hideyuki Katumata, Tohru Suzuki and Satoshi Kaneco
- FO-5 Electrochemical Reduction of CO₂ at Diamond Electrode in Methanol under High Pressure
Isamu Okazaki, Hideyuki Katsumata, Toru Suzuki and Satoshi Kaneco

Break

Tadashi Inaba, Masahiro Tomita, chair

- DO-1 Separation of Human Erythrocytes in a Quadrupole Magnet Flow Sorter
Tomoya Tanaka, Lee R Moore, Jeffrey J. Chalmers, Masahiro Tomita, Takashi Horiuchi and Maciej Zborowski
- DO-2 A novel Magnetic Nanoparticle Separation Method Based on Quadrupole Magnetic Field-Flow Fractionation (QMgFFF)
Toru Orita, Lee Moore, Powrnima Joshi, Masahiro Tomita, Takashi Horiuchi and Maciej Zborowski
- DO-3 Thickness of collagen gel promotes epithelial differentiation of human mesenchymal stem cells
Hiromi Denno, Takafumi Takebayashi, Nobutoshi Nakamachi, Keiichi Miyamoto, Takashi Horiuchi and Yuji Ohta
- DO-4 Anti-Oxidative potential and Cell Senescence of Peritoneal Dialysis Effluent Derived cells
Koji Abe, Tomoaki Kuzumoto, Takuya Hara, Cong Xiu Na, Keiichi Miyamoto, Takashi Horiuchi, Tomohiro Murata, Eiji Ishikawa, Shinsuke Nomura and Tadashi Tomo
- DO-5 Intercellular Junction of peritoneal dialysis effluent derived cells
Takuya Hara, Koji Abe, Tomoaki Kuzumoto, Cong Xiu Na, Keiichi Miyamoto, Takashi Horiuchi, Tomohiro Murata, Eiji Ishikawa and Shinsuke Nomura
- DO-6 Biomechanical Study on the Center of Rotation in Functional Spinal Unit
Takahiro Watanabe, Takamasa Yoshikawa and Tadashi Inaba



Life Science & Advanced Materials

Poster Presentation

Research Area D & F (tentative schedule)

Poster Presentations

Technical Session DFP-I

Short Presentation for Poster Session

November 1, 9:45 - 11:00, Meeting Room L

Poster Presentation

November 2, 9:00 - 12:00, Sansui Foyer

Takahito Itoh, chair

- FP-1 Properties of Polymer Electrolyte Based on Poly(diallylmalononitrile)
Daichi Uei, Takahiro Uno, Masataka Kubo and Takahito Itoh
- FP-2 Molecular Elongation by Repeated Cross-coupling Reactions on the Self-assembled Monolayer of a Tripod-shaped Trithiol and Electrochemical Determination of Product Yield
Hisashi Umemura and Toshikazu Kitagawa
- FP-3 Reactions of Belt-like Cyclic Alkenes and Structures of Their Carbocationic Intermediates
Hideaki Miyake, Takao Okazaki and Toshikazu Kitagawa
- FP-4 Regioselective Ring-Opening Halogenation Reaction of Azetidin-3-one *O*-Alkyl Oxime Promoted by Titanium Tetrahalide
Shizuka Ariga, Iwao Hachiya and Makoto Shimizu
- FP-5 N-Alkylation of α -Imino Ester Followed by Electrophilic Addition Reaction and Its Flow Synthesis
Takanori Sano, Isao Mizota and Makoto Shimizu
- FP-6 Simulation of Diamond-like Carbon Growth on Iron Substrate Using Molecular Dynamics
Ryosuke Iguchi, Takahiro Kawamura and Yasuyuki Suzuki
- FP-7 Photocatalytic degradation of 2-naphthol by WO_3 hollow sphere
Naoyuki Saka, Hideyuki Katsumata, Toru Suzuki and Satoshi Kaneco
- FP-8 Heterogeneous Fenton degradation of linuron with BiFeO_3
Koichi Inoue, Hideyuki Katsumata, Toru Suzuki and Satoshi Kaneko
- FP-9 Electrochemical reduction of CO_2 at boron-doped electrode in methanol
Kento Asama, Hideyuki Katsumata, Tohru Suzuki and Satoshi Kaneco
- FP-10 Photocatalytic hydrogen production from biomass solution with zinc oxide
Sho Nishimoto, Hideyuki Katsumata, Tohru Suzuki, P. Gomathisankar and Satoshi Kaneco
- FP-11 Rheology of fumed silica suspension gels
Yuichi Kataoka and Masami Kawaguchi
- FP-12 Effects of heating and pre-shearing on rheological behavior of silicone oil greases
Toshiaki Yamaguchi, Masami Kawaguchi, Keisuke Kayano and Kazutaka Noro
- FP-13 Dispersion Behavior of Polymer-Adsorbed Fumed Silica in a Polymeric Matrix
Yusuke Kondo, Naoya Torikai and Masami Kawaguchi
- FP-14 Hydrothermal gasification reaction of phenol water using oxide-carbon composite supported Ni catalysts
Kenta Imanishi, Hitoshi Aoki, Tadanori Hashimoto, Hiroyuki Nasu, Atsushi Ishihara

- FP-15 Effect of Supports on Hydrocracking of Aromatic Hydrocarbon Using NiMo Supported Zeolite-Alumina and Silica Composite Catalysts
Yuji Tsuda, Tadanori Hashimoto, Hiroyuki Nasu and Atsushi Ishihara
- FP-16 Characterization of perovskite-type anode materials, $\text{Sr}_2\text{FeMoO}_{6-\delta}$ for SOFCs
Hirokazu Takagi, Atushi Hirano, Yasuo Takeda and Nobuyuki Imanishi
- FP-17 Stable electrolyte for high voltage lithium metal secondary cells
Ryo Yokozawa, Tatsuo Horiba and Nobuyuki Imanishi
- FP-18 Lithium nitride formation on lithium metal
Naoki Futamura, Takayuki Ichikawa, Nobuyuki Imanishi, Yasuo Takeda and Osamu Yamamoto
- DP-1 Biomechanical Effect of Segmental Spinal Correction System on Adjacent Segments
Yuki Nakagami, Takamasa Yoshikawa and Tadashi Inaba
- DP-2 Engineering of recombinant human Fcγ receptor I by directed evolution
Yoshiharu Asaoka, Kouta Hatayama, Teruhiko Ide and Masahiro Tomita
- DP-3 Cell Responses on Poly-L-lactic Acid Fibrous Scaffolds with Different Structure
Mari Kamada, Masahiro Tomita, Masahiko Inagaki and Katsuya Kato
- DP-4 Confocal microscopic observation on baculovirus budded virus envelopes and liposome membranes using cell-sized artificial lipid vesicles prepared with a dropet-transfer method
Misako Nishigami, Masahiro Tomita and Kanta Tsumoto
- DP-5 Development of Elastin-Fibrillin complex materials for elastic tissues reproduction
Ayumu Kamiya, Marina Hasegawa, Atsushi Sakai, Masahiro Nakamura, Naoki Mizutani, Keiichi Miyamoto and Takashi Horiuchi
- DP-6 Investigation of elastin binding protein
Masahiro Nakamura, Yoshihiko Hara, Atsushi Sakai, Ayumu Kamiya, Naoki Mizutani, Soushi Kageyama, Keiichi Miyamoto and Takashi Horiuchi

Research Area D & F (tentative schedule)

Poster Presentations

Technical Session DFP-II

November 2, 13:00 - 16:00, Sansui Foyer

Takashi Horiuchi, chair

- FP-19 Preparation of Self-Doped Conducting Polycyclopentadithiophene and Its Hybridization with silica
Nobuaki Kumazawa, Takahiro Uno, Takahito Itoh and Masataka Kubo
- FP-20 Synthesis and Photolysis of Polydiazo Compounds Consisting of a Dimesityldiazomethane Derivative by Using Sonogashira Coupling Reaction
Shinya Sato, Masaya Shintaku, Katsuyuki Hirai and Toshikazu Kitagawa
- FP-21 Preparation of Monolayer of a Dyad Having a Diaryldiazomethane and a Tripod-shaped Trithiol and Trapping of the Photogenerated Carbene
Tsubasa Nagai, Katsuyuki Hirai and Toshikazu Kitagawa
- FP-22 Horner-Wadsworth-Emmons Reaction Using an Umpolung Reaction of α -Imino Phosphonates
Masasato Tateishi and Makoto Shimizu
- FP-23 Carbon-Carbon Bond Formation Reaction Using An Umpolung Reaction to α -Imino Thioester
Chihiro Ueda, Isao Mizota and Makoto Shimizu
- FP-24 Molecular Beam Epitaxy Growth of GaN under Ga-rich Conditions Simulated by Molecular Dynamics
Hiroya Hayashi, Takafumi Miki, Takahiro Kawamura and Yasuyuki Suzuki
- FP-25 Hydrogen evolution from aqueous solution by $\text{Cd}_{0.3}\text{Zn}_{0.7}\text{S}$ solid solution photocatalyst
Hideki Ando, Hideyuki Katsumata, Toru Suzuki, Satoshi Kaneco
- FP-26 Degradation of organic pollutants with silver orthophosphate as a visible light responsive photocatalyst
Masanao Taniguchi, Hideyuki Katsumata, Tohru Suzuki and Satoshi Kaneco
- FP-27 Photocatalytic degradation of Famotidine in aqueous solution with semiconductor photocatalysts
Yusuke Shimizu, Hideyuki Katsumata, Tohru Suzuki and Satoshi Kaneco
- FP-28 Characterization of emulsions prepared by various surfactants
Toru Imaeda and Masami Kawaguchi
- FP-29 Characterization of poly (N-isopropyl acrylamide) films spread at the air-water interface
Yuki Okumura and Masami Kawaguchi
- FP-30 Preparation of a cobalt supported catalyst by the sol-gel method and Fischer- Tropsch reaction using a trickle bed reactor
Youhei Sone, Tadanori Hashimoto, Hiroyuki Nasu and Atsushi Ishihara
- FP-31 Air electrode with oxide catalyst for aqueous lithium-air rechargeable batteries
Shogo Sunahiro, Hirokazu Ohkuma, Ichiro Uechi, Nobuyuki Imanishi, Yasuo Takeda and Osamu Yamamoto
- FP-32 Synthesis and properties of Nb-Doped Cubic $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$
Kazuki Ishiguro, Yusuke Nakata, Nobuyuki Imanishi, Atsushi Hirano, Yasuo Takeda and Osamu Yamamoto
- FP-33 Ionic conductivity of cubic $\text{Li}_{7-x}\text{La}_3\text{Zr}_2\text{O}_{12-0.5x}$
Yusuke Nakata, Kazuki Ishiguro, Nobuyuki Imanishi, Atsushi Hirano, Yasuo Takeda and Osamu Yamamoto
- FP-34 Media Design Analysis for Thermally Assisted Magnetic Recording
Takumi Horie, Daisaku Nunome, Tadashi Kobayashi and Yuji Fujiwara

- FP-35 Analysis of Tin Oxide Film by an Equivalent Circuit
Yamato Ito, Kazuo Iida, Shigeru Sawada, Atsushi Shimizu and Yasuhiro Hattori
- DP-7 Biomechanical Study in Spine of Deformation Behavior Loaded Shear Force
Masahiro Yamada, Takito Inukai, Takamasa Yoshikawa and Tadashi Inaba
- DP-8 Leptosiprosis in Mie Prefecture
Shigehiro Akachi, Tomoya Tanaka, Marina Yamaguchi ,Kanta Tsumoto and Masahiro Tomita
- DP-9 Reconstitution of an integrated membrane protein system on giant liposomes using the baculovirus-liposome fusion technique
Takaaki Mori, Ayu Ohta, Masahiro Tomita and Kanta Tsumoto
- DP-10 Selective production of stereo-specific monoclonal antibodies by new hybridoma technology
Yasuhiro Yamasaki, Yasuyuki Oda, Toshiyuki Ohshima, Katsuyuki Tamai, Takashi Murayama, Takashi Sakurai, Kanta Tsumoto and Masahiro Tomita
- DP-11 Specific binding of immunoglobulin G to protein A-mesoporous silica composites for affinity column chromatography
Kazuma Nakanishi, Masahiro Tomita, Hitomi Nakamura and Katsuya Kato
- DP-12 The Technique to Control the Phenotype of the Ligament Cells by Three Dimensional Cell Scaffolds
Naoki Mizutani, Satoshi Kageyama, Masahiro Hasegawa, Takafumi Takebayashi, Keiichi Miyamoto and Takashi Horiuchi
- DP-13 Studies on the control cell migration by elastin peptides
Atsushi Sakai, Daisuke Shiosaki, Ryutaro Takarabe, Ayumu Kamiya, Masahiro Nakamura, Naoki Mizutani, Keiichi Miyamoto and Takashi Horiuti



Nanoscience & Nanotechnology

Poster Presentation

Research Area E

Poster Presentations

Technical Session EP-I

Short Presentation for Poster Session

November 2, 10:20-11:40, Room 24

Poster Presentation

November 2, 13:00 - 14:00 (Odd number), 14:00 - 15:00 (Even number) , Sansui Foyer

- EP-1 Effect of Hydrogen Plasma Treatment on Field Emission Property of Carbon Nanotube
Kazuma Oohara and Hideki Sato
- EP-2 Graphene Grown on Transition Metal by Low-Pressure Alcohol Catalytic Chemical Vapor Deposition Method
Takaya Maesaka and Hideki Sato
- EP-3 Influence of Surface Morphology of Carbon Nanotube Film on Its Field Emission
Kota Shimanaka and Hideki Sato
- EP-4 Controllable Synthesis of Graphene Flakes in N-Methyl-Pyrrolidone (NMP) using Ultrasonic Treatment
Nabihah Abdullah, Katano Takafumi and Fumio Kokai
- EP-5 Formation of One-dimensional Core-shell Structures Containing Silicon by Alcohol CVD
Kenji Shirase, Bach Duc Cuong, Akira Koshio, and Fumio Kokai
- EP-6 One-step Growth of Carbon Nanotubes Filled with Copper Compounds by Alcohol CVD Using Cu/Ag Substrate
Takuya Noguchi, Yusuke Furuyama, Akira Koshio, and Fumio Kokai
- EP-7 C₆₀ Solid Grown from o- and m-xylene Solution by Means of LLIP Method
Naoki Sato and Yutaka Takahashi
- EP-8 Electronic Structures at Hydrogenated Diamond (110) Surface in External Electric Field
Aiichiro Sugiyama, Kohji Nakamura, Kazuhiro Sano, Toru Akiyama, Tomonori Ito
- EP-9 First-Principles Calculations of Structural Stability of Fe Thin Films in External Electric
Katsuya Masuda, Kohji Nakamura, Toru Akiyama and Tomonori Ito
- EP-10 First-Principles Calculations of Multiplet Structures of Transition-Metal Phthalocyanines
Toshio Sakai, Yukie Kitaoka, Kohji Nakamura, Toru Akiyama, and Tomonori Ito
- EP-11 Growth Characteristics of Copper Oxide Nanowires by Thermal Oxidation in the Air
Norihito Yokouchi, Kenta Maeda and Hideki Sato
- EP-12 Evaluation of Probe Diameter of Focused Ion Beam Systems with Noble Gas Field Ion
Masatoshi Ito, Shigekazu Nagai, Tatsuo Iwata, Kazuo Kajiwara and Koichi Hata
- EP-13 Fabrication of a Long-life Liquid Lithium Field Emission Electron Source
Ryo Nagai, Koichi Hata and Shigekazu Nagai
- EP-14 Improvement of Field Induced Oxygen Etching Method Preparing a Gas Filed Ion Emitter
Takayuki Asai, Shigekazu Nagai, Tatsuo Iwata, Kazuo Kajiwara, and Koichi Hata
- EP-15 Stability Measurement of Neon Ion Beam Current Emitted from Supertip Gas Field Ion
Yuusuke Suzuki, Takayuki Asai, Shigekazu Nagai, Tatsuo Iwata, Kazuo Kajiwara and

- EP-16 MOVPE Growth of GaN on Off-Angle Trench-Patterned GaN/Sapphire Templates
Zhi Cai, Hideto Miyake and Kazumasa Hiramatsu
- EP-17 Thick AlN Growth on 6H-SiC Substrate by Hydride Vapor Phase Epitaxy
Shin Kitagawa, Naoki Gouriki, Hideto Miyake and Kazumasa Hiramatsu
- EP-18 Facet Structures of Selective-Area-Grown GaN on Semipolar (20-21) and (20-2-1)
Shunsuke Okada, Daiki Jinno, Hideto Miyake and Kazumasa Hiramatsu
- EP-19 Theoretical Investigation for Miscibility in $\text{GaN}_x\text{As}_{1-x-y}\text{Bi}_y$ Mixed Crystal
Takahiro Makihara, Toru Akiyama, Kohji Nakamura and Tomonori Ito
- EP-20 Ab Initio-Based Approach to Novel Behavior of InAs/GaAs(001)-(n×3) Wetting Layer
Kentaro Hirai, Toru Akiyama, Kohji Nakamura and Tomonori Ito
- EP-21 Experimental Studies on Electrically Tunable Terahertz Metamaterial Based on Organic Bistable Device
Ryosuke Takagi and Tatsunosuke Matsui
- EP-22 Fabrication and Characterization of Low-Threshold Conducting Polymer Composite
Shinji Nozaki and Tatsunosuke Matsui
- EP-23 Electromagnetic Field Simulation Using Parallel Computation by GPU
Tsuyoshi Iwata and Tatsunosuke Matsui
- EP-24 Time-of-Flight Measurement of Carrier Mobility of Conducting Polymer for the Development of Novel Organic Film Photovoltaic Cell
Kei Kato and Tatsunosuke Matsui
- EP-25 Reflectance Characteristics at the Interface of GaP and Au Contact and the Exciting of the Surface Plasmon Polariton
Shohei Nakamura, Atsushi Motogaito, Hideto Miyake and Kazumasa Hiramatsu
- EP-26 Study on the Relationship between the Structure and Polarization Property in the Double-Layer Wire Grid Polarizer
Yuuta Morishita, Atsushi Motogaito, Hideto Miyake and Kazumasa Hiramatsu
- EP-27 Wave Algorithm of One-Dimensional Quasi-Passive Walk Like Proceed
Keigo Yamada, Shigeo Kotake, Takahiro Kawamura and Yasuyuki Suzuki
- EP-28 A B3LYP Study on Hydration Structures of K^+ and Na^+ Ions in the KcsA Potassium
Mizuki Itoh, Masaki Mitani and Yasunori Yoshioka
- EP-29 Theoretical Study on Mechanism of Water Oxidation from S_0 to S_3 States Catalyzed by
Tomoya Ichino, Masaki Mitani and Yasunori Yoshioka
- EP-30 Theoretical Study on Electronic Structures of Complexes of Phosphatase with Phosphoric Acid Ester and Phosphoric Acid
Tomoya Shimizu, Tomoya Ichino, Masaki Mitani and Yasunori Yoshioka



Infrastructure & Production

Oral Presentation

Research Area G

Oral Presentations

Technical Session GO-I

November 2, 10:00- 12:05, Room 1

Akikazu Kato, chair

GO-1	A Proposal on the Architectural Planning of PICU (Pediatric Intensive Care Unit) in Children's Hospital <u>Masayuki Kato</u> , Akikazu Kato and Shiho Mori	10:00–10:13
GO-2	Analysis on Inpatients' Postures and Behaviors and Usage of Desks in Multiple Bed Rooms <u>HARA Reiko</u> , KATO Akikazu, MORI Shiho, IMAI Shoji, MATSUMOTO Takatoshi, IMAI Koji and and CHAN Seng Kee	10:13–10:26
GO-3	Chronological Transition of Urban Form of Block 70 in New Belgrade, Serbia (former Yugoslavia), 1945-present <u>Vladimir POPOVIĆ</u> , Chikako TABATA and Yoshito TOMIOKA	10:26–10:39
GO-4	Development of Practical Tools for Vulnerability and Safety Evaluation of CHB house of the Philippines <u>Hiroshi IMAI</u> , Toshikazu HANAZATO, Akaki NAKATANI and ANGELITO G.	10:39–10:52
	<i>Break</i>	10:52–11:00
	<i>Toshikazu Hanazato, chair</i>	
GO-5	Shaking Table Experiments on Full-Scale Masonry Walls using Bricks made in Padang, Indonesia <u>Akaki Nakatani</u> , Toshikazu Hanazato, Yasushi Niitsu, Tadashi Mikoshiba and Hiroshi Imai	11:00–11:13
GO-6	Structural Characteristics of Traditional Wooden Houses in South Nias, Indonesia <u>S. Hanazato</u> , T. Hanazato, Y. Uekita, K. Sato, K. Nitto, K. Ono, A. Nakatani, S. Yoyok, P. Diananta and E. Pradipto	11:13–11:26
GO-7	Seismic Structural Monitoring of World Heritage Masonry Monuments in Earthquake-prone Countries <u>Natsumi Oyaizu</u> , Toshikazu Hanazato, Harris P. Mouzakis, Yasufumi Uekita, Kunihiko Ono, and Subagyo Pramumijyo	11:26–11:39
GO-8	Earthquake and Wind Monitoring of Five-Storied Pagoda Registered as Important Cultural Property <u>Tappei Yokoo</u> , Toshikazu Hanazato, Chikahiro Minowa and Yasushi Niitsu	11:39–11:52
GO-9	ASSESSMENT AFTER 10 YEARS FROM RESTORATION WORKS - Dynamic conservation and practical use of Jiyu Gakuen school Myonichikan, important <u>Natsuko SUGIE</u> and Toshikazu HANAZATO	11:52–12:05



Infrastructure & Production

Poster Presentation

Research Area G

Poster Presentations

Technical Session GP-I

November 2, 13:30 -15:00, Sansui Foyer

- GP-1 Control of porosities in stud welds of steel with gas shielding or flux for SAW
Keisuke Fujiwara, Jippei Suzuki, Hiroshi Kawakami and Hitoshi Ozaki
- GP-2 Influence of material strength on spattering and diameter of nugget for resistance spot welding of steels
Tsubasa Murakami, Jippei Suzuki, Hiroshi Kawakami and Hitoshi Ozaki
- GP-3 Application of indirect laser peening to thin plate of stainless steel
Akiyoshi Kondo, Hiroshi Kawakami, Jippei Suzuki and Hitoshi Ozaki
- GP-4 Influence of Defocus Distance on Tolerance to Irradiated Position in Laser Butt
Ryusuke Akai, Jippei Suzuki, Hiroshi Kawakami and Hitoshi Ozaki
- GP-5 Influence of Pressure on Properties in Assist Gas Free Laser Cutting
Yosuke Koike, Jippei Suzuki, Hiroshi Kawakami and Hitoshi Ozaki
- GP-6 Effect of Polarization on Penetration shape of Laser Butt Weld
Tomoya Mori, Jippei Suzuki, Hiroshi Kawakami and Hitoshi Ozaki
- GP-7 Influence of Electrifying Condition on Hardening Performance in Die Steel, SKD11, Rapidly Resistance-Heated and Locally Hardened
Kouhei OISHI
- GP-8 Tensile test in hot stage using resistance heating
Yuuki Makida
- GP-9 Development of C-FRP Advanced Molding Method Using Thermoplastic Resin Sheet
Satonori MATSUMOTO
- GP-10 Simplified Measurement of Thermophysical Properties for Metallic Materials Using Rapid Resistance Heating
Fumihiko Sano
- GP-11 Study on Reduction of Cutting Load of PVC Pipe by Using a Wedge Shaped Blade
Makoto Aoki, Eitoku Nakanishi
- GP-12 The Effect of Tool Edge Geometry on Tool Wear in Milling of Al-Si Alloy
Satoshi Otani
- GP-13 Influence of Processing Conditions on Bending Performance in Practical Die-Quenching Steel Sheet Rapidly Resistance-Heated and Hot Circular Bent
Yoshihiro Kusunoki
- GP-14 Simple Rheological Evaluations of Solidified Lubricant Greases and Their Thickeners under High Pressure
Katsuhito Nishimura, Yuichi Nakamura and Masahito Matsui
- GP-15 Generation Behavior of Super Smooth Surface in Compression of Aluminum
Yuma Yamamoto, Masahito Matsui, Kenichi Murai and Yuichi Nakamura
- GP-16 A Study on the Application of Thermal Well as a Heat Source/Sink of Heat Pump for Detached Houses Part2. The Relationship between the Ratio of Heating /Cooling Load
Junichi Nakagawa, Hisaya Nagai and Hiroaki Kitano
- GP-17 Basic Study on Subjective Impression for Sound Field with Superimposed Sound
Hisanori Hayakawa and Takane Terashima

- GP-18 Relationship between subjective impressions by visual information and sound field in architectural and urban space
Wani Yuko and Terashima Takane
- GP-19 Basic Study on Discrimination of Sound Field by Difference in Attenuation Property of Room Acoustic Energy
Maya Katoh and Takane Terashima
- GP-20 Experimental Study on Influence of Water Sprinkling as Early Age Curing on Compressive Strength of Porous Concrete
Jun Kawai, Naoki Mishima and Shigemitsu Hatanaka
- GP-21 Experimental Study on Failing Behavior of Reinforced Concrete Columns with a Wall of Low Strength Concrete (Part 1 Experimental Outline)
Furusawa Shoichi, Hatanaka Shigemitsu, Mishima Naoki, Ishida Tooru and
- GP-22 Experimental Study on Failing Behavior of Reinforced Concrete Columns with a Wall of Low Strength Concrete (Part 2 Experimental Result of Reinforced Concrete Columns with a Wing Wall)
Takahashi Tomoki, Furusawa Shoichi, Ishida Tooru, Hatanaka Shigemitsu and
- GP-23 Experimental Study on Failing Behavior of Reinforced Concrete Columns with a Wall of Low Strength Concrete (Part3 Experimental Result of Reinforced Concrete Columns with a Spandrel Wall and Sagging Wall)
Tooru Ishida, Shoichi Furusawa, Tomoki Takahashi, Shigemitsu Hatanaka and Naoki Mishima
- GP-24 Practical Study on the Development of the Supporting Scheme of Resident's Activity about the Disaster Mitigation
Taishi Isowa, Kazuki Nishioka and Jun Kawaguchi
- GP-25 Analysis on Inpatients' Postures and Behaviors and Usage of Desks in Multiple Bed Rooms - Study of Hospital Ward Environment for Early Recovery -
HARA Reiko, KATO Akikazu, MORI Shiho, IMAI Shoji, MATSUMOTO Takatoshi, IMAI Koji and CHAN Seng Kee
- GP-26 A Proposal on the Architectural Planning of PICU (Pediatric Intensive Care Unit) in Children's Hospital
Masayuki Kato, Akikazu Kato and Shiho Mori
- GP-27 A research on actual use of a park to be arranged by local residents' request in an industrial
Chiaki Inami, Kazuhiro Fuzimoto, Masuro Urayama and Kenjiro Matuura
- GP-28 A Vibration Experiment on the Scaled Models of Parasol Unit to Introduced with Pleated
Hideki KAMIYA, Chikako TABATA and Yoshito TOMIOKA
- GP-29 The Chronological and Geographic Distributions on the Wall Construction of Timber Houses
Yuko ASAI, Chikako TABATA and Yoshito TOMIOKA
- GP-30 A study about reexamination on the important area (Futamichochaya Area) in the Ise City Landscape Plan
Susumu MORIKAWA, Naotaka HAYASHI and Satoshi ASANO