<table>
<thead>
<tr>
<th>Day &amp; Time</th>
<th>Research Area</th>
<th>First Day (1st November)</th>
<th>Technical Session I</th>
<th>Technical Session II</th>
<th>Technical Session III</th>
<th>17:30 - 19:30 (2 hours)</th>
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</thead>
<tbody>
<tr>
<td>08:30 - 09:00</td>
<td>A  Oral : 39</td>
<td></td>
<td>09:45-11:45</td>
<td>13:30 - 14:30</td>
<td>15:00 - 17:00</td>
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<td>09:00 - 09:30</td>
<td>B  Oral : 19</td>
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<td>09:45 - 11:45</td>
<td>12:50 - 14:40</td>
<td>15:00 - 16:40</td>
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<td>09:30 - 09:45</td>
<td>C  Oral : 29</td>
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<td>09:45 - 11:45</td>
<td>12:45 - 14:45</td>
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<td>(30 minutes)</td>
<td>Registration (Meeting Room L)</td>
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<td>10:45 - 11:45</td>
<td>D  Oral : 6+5</td>
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<td>(15 minutes)</td>
<td>Poster : 13+35</td>
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<td>11:45 - 12:45</td>
<td>E  Poster : 30</td>
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<td>(1 hour)</td>
<td>F  Oral : 9</td>
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<td>12:45 - 14:45</td>
<td>G  Oral : 9</td>
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<td>(15 minutes)</td>
<td>Poster : 30</td>
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<td>14:45 - 15:00</td>
<td>Internship Program</td>
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<td>15:00 - 17:00</td>
<td>Poster : 25</td>
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<td>Welcome Dinner Hosted by Dean</td>
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<td>of Eng. (University Canteen)</td>
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<tr>
<td>Day &amp; Time</td>
<td>Research Area</td>
<td>Technical Session IV</td>
<td>Technical Session V</td>
<td>Second Day (2nd November)</td>
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<td>09:00-12:00 (3 hours)</td>
<td>12:00-13:00 (1 hour)</td>
<td>13:00-16:00 (3 hours)</td>
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<tr>
<td>Second Day (2nd November)</td>
<td></td>
<td>[09:00 - 11:36] Oral Session AO-III (Room 18)</td>
<td>[13:00 - 14:24] Oral Session AO-IV (Room 15)</td>
<td>[15:00 - 16:00] Invited Session A-II (Room 15)</td>
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<td></td>
<td>A Oral : 38</td>
<td>[9:00 - 10:00] Invited Session AO-III (Room 18)</td>
<td>[13:00 - 14:24] Oral Session AO-IV (Room 15)</td>
<td>[15:00 - 16:00] Invited Session A-II (Room 15)</td>
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<td></td>
<td>B Oral : 19</td>
<td>[9:00 - 10:00] Invited Session B (Room 11)</td>
<td>[16:00 - 18:00] Special Event (Room 15)</td>
<td>Visual-Haptic Communication between Padova University and Mie University</td>
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<td>C Oral : 29 29 Poster : 23</td>
<td>[9:00 - 10:30] Invited Session C (Room 12)</td>
<td>[10:40 - 12:00] Short Presentation for Poster Session (Room 12)</td>
<td>Coffee Break Nomination of Students for Best Presentation Award in Each Research Area</td>
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<td></td>
<td>D+F Oral : 6+5 Poster : 13+35</td>
<td>[9:00 - 12:00] Poster Session DFP-I (Sansui Foyer)</td>
<td>[13:00 - 14:30] Poster Session CP-I (Sansui Foyer)</td>
<td>Summarization of Symposium/ Best Presentation Award/ Closing Remarks/ Memorial Collective Photo (Meeting Room L)</td>
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<td></td>
<td>E Poster : 30</td>
<td>[9:30 - 10:00] Invited Session E (Room 24)</td>
<td>[10:20 - 11:40] Short Presentation for Poster Session (Room 24)</td>
<td>Farewell Dinner Hosted by Dean of Eng. (Off Campus)</td>
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<td>G Oral : 9 Poster : 30</td>
<td>[10:00 - 12:05] Oral Session GO-I (Room 1)</td>
<td>[13:00 - 15:00] Poster Session EP-I (Sansui Foyer)</td>
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<td>Internship Program Poster : 25</td>
<td>Poster Session IP-I (Sansui Foyer)</td>
<td>Poster Session IP-II (Sansui Foyer)</td>
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</tbody>
</table>
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 Robustness
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 $H_\infty$ Model-matching using Medel-free
Masataka Ishizaki, Kazuhiro Yubai, Daisuke Yashiro and Junji Hirai

AO-37 Tuning of Controller Parameters by FChT 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
Research Area B

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
Hirotoshi 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 CO$_2$ Reforming Performance of Visible-light-driven TiO$_2$ 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, Junusuke 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 Resistance 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
Research Area C

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
Tatsuki 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
Kunari 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 Hagina, 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
Research Area C

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-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 Thepvilajanapong, 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
Research Area D & F

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 protein biosorption
Yasuki Tanaka, Hideyuki Katumata, Toru Suzuki and Satoshi Kaneco

FO-4 Purification of thiuram-contaminated water using carboxymethyl cellulose stabilized Fe/Ni bimetal nanoparticles
Yuki Matsuura, Hideyuki Katumata, Toru Suzuki and Satoshi Kaneco

FO-5 Electrochemical Reduction of CO₂ at Diamond Electrode in Methanol under High Pressure
Isamu Okazaki, Hideyuki Katumata, 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, Purnima 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 Yoshihawa 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 WO₃ hollow sphere
Naoyuki Saka, Hideyuki Katsumata, Toru Suzuki and Satoshi Kaneco

FP-8 Heterogeneous Fenton degradation of linuron with BiFeO₃
Koichi Inoue, Hideyuki Katsumata, Toru Suzuki and Satoshi Kaneko

FP-9 Electrochemical reduction of CO₂ 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
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

Characterization of perovskite-type anode materials, Sr$_2$FeMoO$_{6-δ}$ for SOFCs
Hirokazu Takagi, Atsushi Hirano, Yasuo Takeda and Nobuyuki Imanishi

Stable electrolyte for high voltage lithium metal secondary cells
Ryo Yokozawa, Tatsuori Horiba and Nobuyuki Imanishi

Lithium nitride formation on lithium metal
Naoki Futamura, Takayuki Ichikawa, Nobuyuki Imanishi, Yasuo Takeda and Osamu Yamamoto

Biomechanical Effect of Segmental Spinal Correction System on Adjacent Segments
Yuki Nakagami, Takamasa Yoshikawa and Tadashi Inaba

Engineering of recombinant human Fcγ receptor I by directed evolution
Yoshiharu Asaoka, Kouta Hatayama, Teruhiko Ide and Masahiro Tomita

Cell Responses on Poly-L-lactic Acid Fibrous Scaffolds with Different Structure
Mari Kamada, Masahiro Tomita, Masahiko Inagaki and Katsuya Kato

Confocal microscopic observation on baculovirus budded virus envelopes and liposome membranes using cell-sized artificial lipid vesicles prepared with a droplet-transfer method
Misako Nishigami, Masahiro Tomita and Kanta Tsumoto

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

Investigation of elastin binding protein
Masahiro Nakamura, Yoshihiko Hara, Atsushi Sakai, Ayumu Kamiya, Naoki Mizutani, Soshi 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, Takaafumi Miki, Takahiro Kawamura and Yasuyuki Suzuki

FP-25  Hydrogen evolution from aqueous solution by Cd0.3Zn0.7S 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 Song, Tadanori Hashimoto, Hiroyuki Nasu and Atsushi Ishihara

FP-31  Air electrode with oxide catalyst for aqueous lithium-air rechargeable batteries
Shogo Sunahiro, Hirokazu Okuma, Ichiro Uechi, Nobuyuki Imanishi, Yasuo Takeda and Osamu Yamamoto

FP-32  Synthesis and properties of Nb-Doped Cubic Li$_{2}$La$_{2}$Zr$_{2}$O$_{12}$
Kazuki Ishiguro, Yusuke Nakata, Nobuyuki Imanishi, Atsushi Hirano, Yasuo Takeda and Osamu Yamamoto

FP-33  Ionic conductivity of cubic Li$_{1-x}$La$_{2}$Zr$_{2}$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
Analysis of Tin Oxide Film by an Equivalent Circuit
Yamato Ito, Kazuo Iida, Shigeru Sawada, Atsushi Shimizu and Yasuhiro Hattori

Biomechanical Study in Spine of Deformation Behavior Loaded Shear Force
Masahiro Yamada, Takito Inukai, Takamasa Yoshikawa and Tadashi Inaba

Leptosiprosis in Mie Prefecture
Shigehiro Akachi, Tomoya Tanaka, Marina Yamaguchi, Kanta Tsumoto and Masahiro Tomita

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

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

Specific binding of immunoglobulin G to protein A-mesoporous silica composites for affinity chromatography
Kazuma Nakanishi, Masahiro Tomita, Hitomi Nakamura and Katsuya Kato

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

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 Horiuchi
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 Takafulmi 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 C_60 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 San, Toru Akiyama, Tomonori Ito

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

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 GaN$_x$As$_{1-x}$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
A Proposal on the Architectural Planning of PICU (Pediatric Intensive Care Unit) in Children’s Hospital
Masayuki Kato, Akikazu Kato and Shiho Mori

Analysis on Inpatients’ Postures and Behaviors and Usage of Desks in Multiple Bed Rooms
HARU Reiko KATO Akikazu, MORI Shiho, IMAI Shoji, MATSUMOTO Takatoshi, IMAI Koji and CHAN Seng Kee

Chronological Transition of Urban Form of Block 70 in New Belgrade, Serbia (former Yugoslavia), 1945-present
Vladimir POPOVIĆ, Chikako TABATA and Yoshito TOMIOKA

Development of Practical Tools for Vulnerability and Safety Evaluation of CHB house of the Philippines
Hiroshi IMAI, Toshikazu HANAZATO, Akaki NAKATANI and ANGELITO G.

Shaking Table Experiments on Full-Scale Masonry Walls using Bricks made in Padang, Indonesia
Akaki Nakatani, Toshikazu Hanazato, Yasushi Niitsu, Tadashi Mikoshiba and Hiroshi Imai

Structural Characteristics of Traditional Wooden Houses in South Nias, Indonesia
S. Hanazato, T. Hanazato, Y. Uekita, K. Sato, K. Nitto, K. Ono, A. Nakatani, S. Yoyok, P. Diananta and E. Pradipo

Seismic Structural Monitoring of World Heritage Masonry Monuments in Earthquake-prone Countries
Natsumi Oyaizu, Toshikazu Hanazato, Harris P. Mouzakis, Yasufumi Uekita, Kunihiko Ono, and Subagyo Pramumijyo

Earthquake and Wind Monitoring of Five-Storied Pagoda Registered as Important Cultural Property
Tappei Yokoo, Toshikazu Hanazato, Chikahiro Minowa and Yasushi Niitsu

ASSESSMENT AFTER 10 YEARS FROM RESTORATION WORKS - Dynamic conservation and practical use of Jiyu Gakuen school Myonichikan, important
Natsuko SUGIE and Toshikazu HANAZATO
Infrastructure & Production

Poster Presentation
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
   Yusuke 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
Relationship between subjective impressions by visual information and sound field in architectural and urban space
Wani Yuko and Terashima Takane

Basic Study on Discrimination of Sound Field by Difference in Attenuation Property of Room Acoustic Energy
Maya Katoh and Takane Terashima

Experimental Study on Influence of Water Sprinkling as Early Age Curing on Compressive Strength of Porous Concrete
Jun Kawai, Naoki Mishima and Shigemitsu Hatanaka

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

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

Experimental Study on Failing Behavior of Reinforced Concrete Columns with a Wall of Low Strength Concrete (Part 3 Experimental Result of Reinforced Concrete Columns with a Spandrel Wall and Sagging Wall)
Tooru Ishida, Shoichi Furusawa, Tomoki Takahashi, Shigemitsu Hatanaka and Naoki Mishima

Practical Study on the Development of the Supporting Scheme of Resident’s Activity about the Disaster Mitigation
Taishi Isowa, Kazuki Nishioka and Jun Kawaguchi

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

A Proposal on the Architectural Planning of PICU (Pediatric Intensive Care Unit) in Children’s Hospital
Masayuki Kato, Akikazu Kato and Shiho Mori

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

A Vibration Experiment on the Scaled Models of Parasol Unit to Introduced with Pleated
Hideki KAMIYA, Chikako TABATA and Yoshito TOMIOKA

The Chronological and Geographic Distributions on the Wall Construction of Timber Houses
Yuko ASAI, Chikako TABATA and Yoshito TOMIOKA

A study about reexamination on the important area (Futamichochaya Area) in the Ise City Landscape Plan
Susumu MORIKAWA, Naotaka HAYASHI and Satoshi ASANO