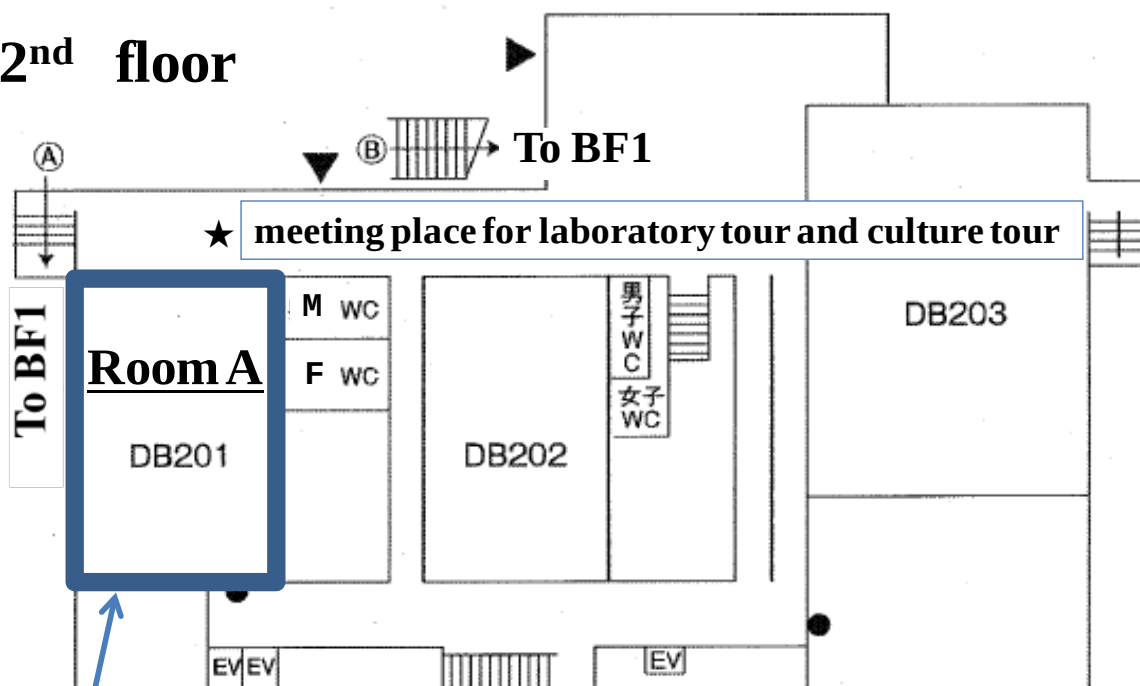


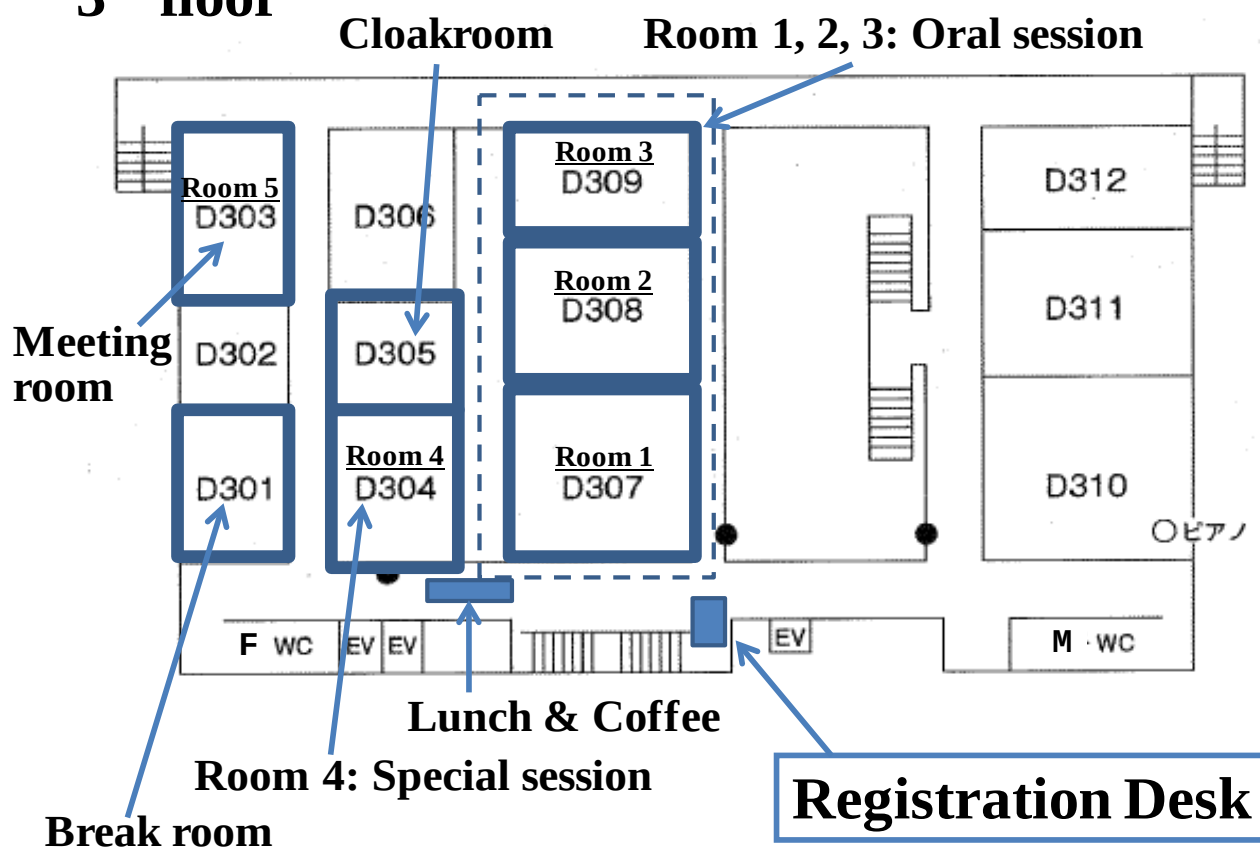
# Floor Map

## B2<sup>nd</sup> floor



Room A: Plenary session

## 3<sup>rd</sup> floor



## Welcome Reception

| November 21 |                                                  |
|-------------|--------------------------------------------------|
| 18:00-20:00 | Faculty Lounge (Hiyoshi Campus, Keio University) |

## Banquet

| November 23 |                                                                 |
|-------------|-----------------------------------------------------------------|
| 19:00-21:00 | Meguro Gajoen<br>(Room: Hananoshizuka)<br>Fee: 5,000 yen/person |

## Registration Desk

| November 21 |                                                  |
|-------------|--------------------------------------------------|
| 15:00-19:00 | Faculty Lounge (Hiyoshi Campus, Keio University) |
| November 22 |                                                  |
| 08:30-18:00 | Fourth Building Independence Wing, 3rd Floor     |
| November 23 |                                                  |
| 08:30-16:00 | Fourth Building Independence Wing, 3rd Floor     |
| 17:30-19:30 | Meguro Gajoen                                    |
| November 24 |                                                  |
| 08:30-15:00 | Fourth Building Independence Wing, 3rd Floor     |

## Culture Tour to Kamakura

**November 23, 2010 10:50-17:00**

Please join our tour to Kamakura by bus. Kamakura is a beautiful historical town that used to be a capital of Japan from 12th to 14th century. We will visit a famous shrine and a great statue. The one is Tsurugaoka-Hachimangu Shrine built in 1063. The other is a Great Buddha of Kamakura (Kamakura no Dai-butsu), 13 meters high built by bronze in 1252. We will get together **at 10:50 on November 23 in front of Room A**. Lunch box is included. We will come back to Keio University at 5 p.m.

## Laboratory Tour

**November 22, 2010 13:20-14:30**

Laboratory tour in Yagami Campus (meeting place: in front of Room A)

**November 24, 2010 13:00-14:10**

Laboratory tour in Hiyoshi Campus (meeting place: in front of Room A)

## Conference Program

| November 22 |                                                          |                                                              |                                                           |                                                              |
|-------------|----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| 09:30-09:50 | Opening Session (Room A)                                 |                                                              |                                                           |                                                              |
| 09:50-10:50 | Plenary Session 1 (Room A)                               |                                                              |                                                           |                                                              |
| 10:50-11:10 | Coffee Break                                             |                                                              |                                                           |                                                              |
|             | Room 1                                                   | Room 2                                                       | Room 3                                                    | Room 4                                                       |
| 11:10-12:30 | 1. Mon1-1<br>Network-based Control Systems I             | 2. Mon2-1<br>Advanced Motion Control I                       | 3. Mon3-1<br>Musculoskeletal Structure Based Robotics I   |                                                              |
| 12:30-14:30 | Lunch                                                    |                                                              |                                                           |                                                              |
| 14:30-16:10 | 4. Mon1-2<br>Advanced Mechatronics I                     | 5. Mon2-2<br>Advanced Sensing Systems and Applications I     | 6. Mon3-2<br>Image and Signal Processing I                |                                                              |
| 16:10-16:30 | Coffee Break                                             |                                                              |                                                           |                                                              |
| 16:30-18:15 | 7. Mon1-3<br>Applied Image Processing for System Control | 8. Mon2-3<br>Advanced Motion Control II                      | 9. Mon3-3<br>Micro Nano Robotics and Mechatronics I       | 25. Mon4-3<br>Special Session on "Education of Mechatronics" |
|             |                                                          |                                                              |                                                           |                                                              |
|             | November 23                                              |                                                              |                                                           |                                                              |
| 09:30-10:30 | Plenary Session 2 (Room A)                               |                                                              |                                                           |                                                              |
| 10:30-10:50 | Coffee Break                                             |                                                              |                                                           |                                                              |
|             | Room 1                                                   | Room 2                                                       | Room 3                                                    | Room 4                                                       |
| 10:50-12:10 | 10. Tue1-1<br>Network-based Control Systems II           | 11. Tue2-1<br>Measuring System                               | 12. Tue3-1<br>Micro Nano Robotics and Mechatronics II     |                                                              |
| 12:10-13:40 | Lunch                                                    |                                                              |                                                           |                                                              |
| 13:40-15:20 | 13. Tue1-2<br>Human Interactive Control                  | 14. Tue2-2<br>Advanced Sensing Systems and Applications II   | 15. Tue3-2<br>Vision and Control for Access Space (VCAS)  |                                                              |
| 15:20-15:40 | Coffee Break                                             |                                                              |                                                           |                                                              |
| 15:40-17:00 | 16. Tue1-3<br>Advanced Mechatronics II                   | 17. Tue2-3<br>Advanced Motion Control III                    | 18. Tue3-3<br>Musculoskeletal Structure Based Robotics II |                                                              |
| 19:00-21:00 | Banquet                                                  |                                                              |                                                           |                                                              |
|             | November 24                                              |                                                              |                                                           |                                                              |
| 09:30-10:30 | Plenary Session 3 (Room A)                               |                                                              |                                                           |                                                              |
| 10:30-10:50 | Coffee Break                                             |                                                              |                                                           |                                                              |
|             | Room 1                                                   | Room 2                                                       | Room 3                                                    | Room 4                                                       |
| 10:50-12:30 | 19. Wed1-1<br>Haptics for Human Support                  | 20. Wed2-1<br>Power Assist Systems and Rehabilitation Robots | 21. Wed3-1<br>Image and Signal Processing II              |                                                              |
| 12:30-14:30 | Lunch                                                    |                                                              |                                                           |                                                              |
| 14:30-16:10 | 22. Wed1-2<br>Advanced Mechatronics III                  | 23. Wed2-2<br>Sensing Systems and Control                    | 24. Wed3-2<br>Nonlinear System and Analysis               |                                                              |
|             |                                                          |                                                              |                                                           |                                                              |

# **Plenary Sessions**

## Plenary Sessions

**Monday, 22 November: 09:50-10:50**

**Room A Plenary Session 1**

Ohnishi, K., Yashiro, D., Sato, T., Keio University, Japan

**YF-003298 Haptic Forceps for Computer Assisted Surgery**

**621**

**Tuesday, 23 November: 09:30-10:30**

**Room A Plenary Session 2**

**634**

**Wednesday, 24 November: 09:30-10:30**

**Room A Plenary Session 3**

Oboe, R., University of Padova, Italy

**YF-003271 Bilateral Teleoperation Through Internet**

**624**

**Monday, 22 November: 11:10-12:30**

**Room1 1. Mon1-1**

**Network-based Control Systems I**

Chair : Nishi, H., Keio University, Japan

Co-chair : Uchimura, Y., Shibaura Institute of Technology, Japan

|                  |                                                                                                             |           |
|------------------|-------------------------------------------------------------------------------------------------------------|-----------|
| <b>YF-000477</b> | <b>H<math>\infty</math> Filter-based Robotic Localization and Mapping with Intermittent Measurements</b>    | <b>1</b>  |
|                  | Ahmad, H., Namerikawa, T.                                                                                   |           |
| <b>YF-000876</b> | <b>A Relay Structure of Wireless Network for Real Time Control</b>                                          | <b>7</b>  |
|                  | Yamada, H., Uchimura, Y.                                                                                    |           |
| <b>YF-001694</b> | <b>Effects of Time-Varying Delays on Signal Transmission and Control System</b>                             | <b>13</b> |
|                  | Natori, K.                                                                                                  |           |
| <b>YF-002755</b> | <b>A Teleoperation System for a Remote Evaluation of the Hand in Patients with Neurological Impairments</b> | <b>17</b> |
|                  | Oboe, R., Daud, O. A. , Masiero, S., Oscari, F. , Rosati, G.                                                |           |

**Monday, 22 November: 11:10-12:30**

**Room2 2. Mon2-1**

**Advanced Motion Control I**

Chair : Ming, A., The University of Electro-Communications, Japan

Co-chair : Kubo, R., Keio University, Japan

|                  |                                                                                                                 |           |
|------------------|-----------------------------------------------------------------------------------------------------------------|-----------|
| <b>YF-000248</b> | <b>Workspace Based Controller Design and Performance Evaluation for MDOF Bilateral System</b>                   | <b>23</b> |
|                  | Horie, R., Murakami, T.                                                                                         |           |
| <b>YF-000507</b> | <b>Bilateral Motion Control based on Spatial Frequency Decomposition with Discrete Fourier Series Expansion</b> | <b>29</b> |
|                  | Hatta, Y., Shimono, T.                                                                                          |           |
| <b>YF-000019</b> | <b>Thrust Wire Load Force Compensation for Sensor-less Bilateral System</b>                                     | <b>35</b> |
|                  | Tian, D., Ohnishi, K.                                                                                           |           |
| <b>YF-002062</b> | <b>An Experimental Platform for the Production Simulation of a Robotic Fiber Placement Cell</b>                 | <b>41</b> |
|                  | Arnault, B. , Soriano, T. , Zerelli, M.                                                                         |           |

**Monday, 22 November: 11:10-12:30**

**Room3 3. Mon3-1**

**Musculoskeletal Structure Based Robotics I**

Chair : Tsuji, T., Saitama University, Japan

Co-chair : Makino, Y., Keio University, Japan

|                  |                                                                                                                |           |
|------------------|----------------------------------------------------------------------------------------------------------------|-----------|
| <b>YF-001929</b> | <b>Direct-Drive Musculoskeletal Robot Using Spiral Motors and Dynamics Simulation of Closed Link Mechanism</b> | <b>47</b> |
|                  | Wakayama, Y., Fujimoto, Y.                                                                                     |           |
| <b>YF-002496</b> | <b>Infinity Norm Approach for Output Force Maximization of Manipulators Driven by Bi-articular Actuators</b>   | <b>53</b> |
|                  | Salvucci, V., Oh, S., Hori, Y.                                                                                 |           |
| <b>YF-001678</b> | <b>Modelling and Control of Redundant Robot Manipulator using Spiral Motor</b>                                 | <b>59</b> |
|                  | Shukor, A. Z., Fujimoto, Y.                                                                                    |           |
| <b>YF-001961</b> | <b>Developments of Muscle Motion Actuators</b>                                                                 | <b>65</b> |
|                  | Obata, S. , Matsui, H. , Haneyoshi, T.                                                                         |           |

**Monday, 22 November: 14:30-16:10**

**Room1 4. Mon1-2**

**Advanced Mechatronics I**

Chair : Choley, J.Y., Lismma, France

Co-chair : Komada, S., Mie University, Japan

|                  |                                                                                                 |           |
|------------------|-------------------------------------------------------------------------------------------------|-----------|
| <b>YF-000833</b> | <b>Mechatronics Issues for Specification of PLM Functionalities and Features</b>                | <b>69</b> |
|                  | Bricogne, M., Petit, L., Meyine, A. M., Troussier, N., Eynard, B.                               |           |
| <b>YF-002283</b> | <b>Control of TIG Arc by YAG Laser in Hybrid-welding of Thin Metal Plates</b>                   | <b>74</b> |
|                  | Murata, Y. , Yokoyama, K., Baskoro, A. R., Kim, T., Suga, Y.                                    |           |
| <b>YF-002313</b> | <b>Integrated Design for a Mechatronic System with CATIA V6</b>                                 | <b>80</b> |
|                  | Plateaux, R. , Penas, O. , Choley, J. Y., Rivière, A.                                           |           |
| <b>YF-002453</b> | <b>One-to-Many Bilateral Control for Adaptation to Environment</b>                              | <b>86</b> |
|                  | Okura, T., Katsura, S.                                                                          |           |
| <b>YF-000078</b> | <b>Estimation of Tire-road Friction Coefficient Using Equivalent-Input-Disturbance Approach</b> | <b>92</b> |
|                  | She, J., Ogawa, Y., Makino, K., Hashimoto, H.                                                   |           |

**Monday, 22 November: 14:30-16:10**

**Room2 5. Mon2-2**

**Advanced Sensing Systems and Applications I**

Chair : Trufasu, A. O., Universitatea Politehnica Bucuresti, Romania

Co-chair : Takahashi, S., Kagawa University, Japan

|                  |                                                                                         |            |
|------------------|-----------------------------------------------------------------------------------------|------------|
| <b>YF-000329</b> | <b>A Face-direction Estimation for AIBO</b>                                             | <b>96</b>  |
|                  | Abiko, K., Fuji, T., Fukai, H, Mitsukura, Y.                                            |            |
| <b>YF-001317</b> | <b>MEMS-based Eyeglass Type Wearable Line-of-Sight Detection System</b>                 | <b>102</b> |
|                  | Oikawa, A., Muro, T. , Miki, N.                                                         |            |
| <b>YF-001341</b> | <b>Disturbance Control for Optical Phase Filter</b>                                     | <b>106</b> |
|                  | Ishigami, Y. , Takahashi, S. , Kawajiri, T. , Ishimaru, I.                              |            |
| <b>YF-002402</b> | <b>Advanced Sensing Systems by DSLR Imaging Detailed Indoor Monitoring on Purpose</b>   | <b>110</b> |
|                  | Trufasu, A. O., Cuta, A. N., Nitu, C. , Musceleanu, M., Trufasu, C. L.                  |            |
| <b>YF-002488</b> | <b>Optical Flow Estimation based on Camera Motion and Omni-directional Color Vector</b> | <b>116</b> |
|                  | Shibata, M., Kubota, M., Ito, M.                                                        |            |

**Monday, 22 November: 14:30-16:10**

**Room3 6. Mon3-2**

**Image and Signal Processing I**

Chair : Saito, H., Keio University, Japan

Co-chair : Mitsukura, Y., Tokyo Univercity of Agriculture and Technology, Japan

|                  |                                                                                              |            |
|------------------|----------------------------------------------------------------------------------------------|------------|
| <b>YF-000035</b> | <b>Visual Motion Observer-based Pose Control via Image Space Navigation Function</b>         | <b>122</b> |
|                  | Murao, T., Kawai, H. , Fujita, M.                                                            |            |
| <b>YF-000345</b> | <b>Pyramidal Normal Map Integration for Real-time Photometric Stereo</b>                     | <b>128</b> |
|                  | Nozick, V.                                                                                   |            |
| <b>YF-000353</b> | <b>Epipolar Rectification for Autostereoscopic Camera Setup</b>                              | <b>133</b> |
|                  | Boutarel, F., Nozick, V.                                                                     |            |
| <b>YF-001953</b> | <b>Cloth Handling Robot System</b>                                                           | <b>137</b> |
|                  | Yoshida , Y., Hata, S., Hayashi, J., Hojoh, H., Hamada, T.                                   |            |
| <b>YF-002127</b> | <b>Dynamic Background Modeling for Moving Objects Detection Using a Mobile Stereo Camera</b> | <b>143</b> |
|                  | Moro, A., Mumolo, E., Nolich, M., Terabayashi, K., Umeda, K.                                 |            |

**Monday, 22 November: 16:30-18:10**

**Room1      7. Mon1-3**

**Applied Image Processing for System Control**

Chair : Terada, K., The University of Tokushima, Japan

Co-chair : Meizel, D., Xlim, France

|                  |                                                                                                  |            |
|------------------|--------------------------------------------------------------------------------------------------|------------|
| <b>YF-001325</b> | <b>Object Identification by Hough Data Verification</b>                                          | <b>149</b> |
|                  | Ueno, K., Yamaguchi, J.                                                                          |            |
| <b>YF-000868</b> | <b>Query-by-Sketch Image Retrieval Using Edge Relation Histogram as Global and Local Feature</b> | <b>153</b> |
|                  | Kumagai, Y., Arikawa, T., Ohashi, G.                                                             |            |
| <b>YF-002356</b> | <b>Information Fusion Merging for Person Recognition and Localization</b>                        | <b>157</b> |
|                  | Gatto, F., Sawada, H., Benoit, E.                                                                |            |
| <b>YF-001848</b> | <b>Virtual Darts Using Image Processing</b>                                                      | <b>163</b> |
|                  | Tsuda, K., Terada, K., Stephen, K.                                                               |            |
| <b>YF-001333</b> | <b>Identification of Concrete Surface Damage using Color Image</b>                               | <b>169</b> |
|                  | Fujidai, T., Yamaguchi, J., Nagai, M.                                                            |            |

**Monday, 22 November: 16:30-18:10**

**Room2      8. Mon2-3**

**Advanced Motion Control II**

Chair : Yakoh, T., Keio University, Japan

Co-chair : Hwang, Y.R., National Central University, Taiwan

|                  |                                                                                                                  |            |
|------------------|------------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-001309</b> | <b>Horizontal Vibration Isolation with Displacement Cancellation and Negative Stiffness Control</b>              | <b>173</b> |
|                  | Shahadat, M. M. Z., Mizuno, T., Ishino, Y., Takasaki, M.                                                         |            |
| <b>YF-001872</b> | <b>Expression of System Connection Considering Communication Delays and Throughput for Control System Design</b> | <b>179</b> |
|                  | Eguchi, Y., Natori, K., Hayashi, Y.                                                                              |            |
| <b>YF-002348</b> | <b>An Expression of Transparency in Time-Delayed Multilateral Control Systems</b>                                | <b>183</b> |
|                  | Kubo, R., Motoi, N.                                                                                              |            |
| <b>YF-002631</b> | <b>Dynamic Modeling and FPGA Speed Controllers for Air-Powered Motorcycle</b>                                    | <b>189</b> |
|                  | Huang, S. Y., Hwang, Y. R., Tseng, G. C., Kuan, C. P.                                                            |            |

**Monday, 22 November: 16:30-18:10**

**Room3      9. Mon3-3**

**Micro Nano Robotics and Mechatronics I**

Chair : Chaillet, N., FEMTO-ST Institute, France

Co-chair : Noda, K., University of Tokyo, Japan

|                  |                                                                                                                    |            |
|------------------|--------------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-001015</b> | <b>Needle Positioning Method of the Sub-pico-liter Dispensing Mechanism Using Vibration Response of the Needle</b> | <b>195</b> |
|                  | Hirose, K., Adachihara, S., Irie, Y., Hirata, S., Aoyama, H.                                                       |            |
| <b>YF-002119</b> | <b>Modeling of Parameters Variations Using Differential Inclusions</b>                                             | <b>201</b> |
|                  | Zerelli, M. , Soriano, T. , Arnault, B.                                                                            |            |
| <b>YF-002445</b> | <b>Micro-Macro Bilateral Control with Variable Scaling Gain Based on Operational Velocity</b>                      | <b>207</b> |
|                  | Kosugi, T., Katsura, S.                                                                                            |            |
| <b>YF-002682</b> | <b>Modeling and Control of Non-contact Micromanipulations Based on Dielectrophoresis</b>                           | <b>213</b> |
|                  | Kharboutly, M., Gauthier, M., Chaillet, N.                                                                         |            |



**Monday, 22 November: 16:30-18:15**

**Room4      25. Mon4-3**

**Special Session on "Education of Mechatronics"**

Chair : Lottin, J., Polytech Annecy-Chambery, France

Co-chair : Nakamura, A., Tokyo Denki University, Japan

|                  |                                                                                                     |            |
|------------------|-----------------------------------------------------------------------------------------------------|------------|
| <b>YF-003247</b> | <b>Creative Mechatronics Education at UEC</b>                                                       | <b>597</b> |
|                  | Ming, A., Xu, C., Kanamori, C., Tanaka, K., Aoyama H., Shimojo, M.                                  |            |
| <b>YF-003158</b> | <b>Panorama of Education on Mechatronics in France</b>                                              | <b>603</b> |
|                  | Lottin, J.                                                                                          |            |
| <b>YF-003174</b> | <b>Collaboration with Industries in Technology Transfer of Mechatronics in Japan</b>                | <b>606</b> |
|                  | Hashimoto, H., Yoshida, I., Tabata, H., Teramoto, Y., Han, C., Koshimizu, S.                        |            |
| <b>YF-003255</b> | <b>An Integrated Mechatronics Master (Supméca, ENSEA, EISTI)</b>                                    | <b>608</b> |
|                  | Choley, J.Y.                                                                                        |            |
| <b>YF-003093</b> | <b>Natural Communication for Robot Partners Based on Computational Intelligence for Edutainment</b> | <b>610</b> |
|                  | Kubota, N., Kimura, H., Cao, J.                                                                     |            |
| <b>YF-003263</b> | <b>Education Structure in Mechatronics at UTC: The Example of The Petale Robot</b>                  | <b>616</b> |
|                  | Lamarque, F., Dore, E., Prella, C., Lanfranchi, V., Forgez, C., Pouille, P., Lefèbvre, P.           |            |
| <b>YF-003204</b> | <b>International Mechatronics Education Using e-learning System</b>                                 | <b>619</b> |
|                  | Hata, S.                                                                                            |            |

**Tuesday, 23 November : 10:50-12:10****Room1 10. Tue1-1****Network-based Control Systems II**

Chair : Natori, K., Aoyama Gakuin University, Japan

Co-chair : Namerikawa, T., Keio University, Japan

|                  |                                                                                                    |            |
|------------------|----------------------------------------------------------------------------------------------------|------------|
| <b>YF-001988</b> | <b>Control Method for Time-varying System and Its Application for Network Based Motion Control</b> | <b>218</b> |
|                  | Uchimura, Y., Nagahara, M.                                                                         |            |
| <b>YF-002321</b> | <b>A Telescope Robust Preliminary Design with SysML</b>                                            | <b>224</b> |
|                  | Penas, O. , Choley, J. Y. , Plateaux, R.                                                           |            |
| <b>YF-002364</b> | <b>Four-channel Force Reflecting Teleoperation System Based on ISS Small Gain Theorem</b>          | <b>228</b> |
|                  | Do Duc, N., Namerikawa, T.                                                                         |            |
| <b>YF-002429</b> | <b>Kalman Filter-based multi-sensor Fusion for Dynamic Positioning of Ships</b>                    | <b>234</b> |
|                  | Rigatos, G. G.                                                                                     |            |

**Tuesday, 23 November : 10:50-12:10****Room2 11. Tue2-1****Measuring System**

Chair : Hashimoto, H., Advanced Institute of Industrial Technology, Japan

Co-chair : Noguchi, M., Tokyo Denki University, Japan

|                  |                                                                                                                         |            |
|------------------|-------------------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-002623</b> | <b>Anti Swinging Control of Automatic Crane System with Variable Rope Length</b>                                        | <b>240</b> |
|                  | Ishino, H., Murakami, T.                                                                                                |            |
| <b>YF-000442</b> | <b>Study of CO2 Density Management and a Harmful Influence</b>                                                          | <b>244</b> |
|                  | Nakayama, Y., Yoshikawa, D., Tsunoda, O                                                                                 |            |
| <b>YF-000574</b> | <b>Trial for Distribution Imaging of Global Greenhouse Gas by the Imaging-Type Two-Dimensional Fourier Spectroscopy</b> | <b>250</b> |
|                  | Takuma, T., Kawajiri, T., Uraki, T., Qi, W., Tsutsumi, R., Nishiyama, A., Takahashi, S. , Ishimaru, I.                  |            |
| <b>YF-000914</b> | <b>Development of a Minute PCB Inspection System by Using Capacitance</b>                                               | <b>254</b> |
|                  | Noguchi, M., Saito, Y., Tsunoda, O., Tomita, H.                                                                         |            |

**Tuesday, 23 November : 10:50-12:10****Room3 12. Tue3-1****Micro Nano Robotics and Mechatronics II**

Chair : Hirata, S., The University of Electro-Communications, Japan

Co-chair : Miki, N., Keio University, Japan

|                  |                                                                                                                                            |            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-000396</b> | <b>Signal Processing Methods for Micro Cantilever Type Tactile Sensor</b>                                                                  | <b>260</b> |
|                  | Mito, W., Yamazoe, H., Yoshida, S., Tada, M. , Sohgawa, M., Kanashima, T., Okuyama, M., Noma, H.                                           |            |
| <b>YF-001619</b> | <b>Stabilization Study at the Sub-nanometer Level at the Interaction Point of the Future Compact Linear Collider</b>                       | <b>266</b> |
|                  | Balik, G., Badel, A., Bolzon, B., Brunetti, L., Caron, B., Deleglise, G., Jeremie, A., Le Breton, R., Lottin, J., Pacquet, L.              |            |
| <b>YF-000965</b> | <b>Development of a Micro-encapsulation Method Using Glass Capillaries and Thin Needles for Wide-variety and Small-quantity Production</b> | <b>272</b> |
|                  | Terasaki, K., Hata, N., Hirata, S., Aoyama, H.                                                                                             |            |
| <b>YF-001031</b> | <b>Screen Printed Windings for Small-Power Electrical Machines</b>                                                                         | <b>278</b> |
|                  | Braeuer, P., Schuhmann, T., Werner, R.                                                                                                     |            |

**Tuesday, 23 November : 13:40-15:20**

**Room1 13. Tue1-2**

**Human Interactive Control**

Chair : Benoit, E., University of Savoie, France

Co-chair : Sawada, H., Kagawa University, Japan

|                  |                                                                                                             |            |
|------------------|-------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-000027</b> | <b>Manipulating Objects in Harmonic Motion: Distinctions between Power-Assisted and Manual Manipulation</b> | <b>284</b> |
|                  | Mizanoor Rahman, S. M., Ikeura, R., Ishibashi, S., Hayakawa, S., Sawai, H.                                  |            |
| <b>YF-000183</b> | <b>Robust Stabilization Control for an Electric Bicycle</b>                                                 | <b>290</b> |
|                  | Kawamura, T., Murakami, T.                                                                                  |            |
| <b>YF-001864</b> | <b>Modal Decomposition Method Based on Principal Component Analysis</b>                                     | <b>296</b> |
|                  | Watanabe, T., Katsura, S.                                                                                   |            |
| <b>YF-002208</b> | <b>Multi-Motor Structure and Antagonistic drive for Steer-By-Wire System with Redundancy</b>                | <b>302</b> |
|                  | Nagasawa, K., Umemura, A. , Ohnishi, K. , Saito, Y.                                                         |            |
| <b>YF-002844</b> | <b>Identification of Surface Electromyography Signals with Continuous Wavelet Entropy Transform</b>         | <b>306</b> |
|                  | Almanji, A., Chang, J. Y., Laing, C.                                                                        |            |

**Tuesday, 23 November : 13:40-15:20**

**Room2 14. Tue2-2**

**Advanced Sensing Systems and Applications II**

Chair : Kurumisawa, M., ASAHI GLASS CO.,LTD., Japan

Co-chair : Oda, N., Chitose Institute of Science and Technology, Japan

|                  |                                                                                                                 |            |
|------------------|-----------------------------------------------------------------------------------------------------------------|------------|
| <b>YF-000175</b> | <b>Object Tracking Control by Extended Jacobian Matrix Based on Visual information in Autonomous Helicopter</b> | <b>311</b> |
|                  | Suzuki, H., Murakami, T.                                                                                        |            |
| <b>YF-000256</b> | <b>Intelligent Assistance in Localization for Mobile Robots</b>                                                 | <b>317</b> |
|                  | Jayasekara, P. G. , Eun Song, Y., Sasaki, T., Hashimoto, H.                                                     |            |
| <b>YF-000418</b> | <b>3D Localization and Map Matching of Urban Vehicles</b>                                                       | <b>323</b> |
|                  | Peyraud, S., Renault, S., Meizel, D.                                                                            |            |
| <b>YF-001589</b> | <b>Flexible Distributed Capacitive Sensor with Encapsulated Ferroelectric Liquid</b>                            | <b>329</b> |
|                  | Hotta, Y., Zhang, Y., Miki, N.                                                                                  |            |
| <b>YF-002267</b> | <b>Rider's Action Support Method based on Visual Sensing for Power Assisted Wheelchair</b>                      | <b>333</b> |
|                  | Mabuchi , S., Oda, N.                                                                                           |            |

**Tuesday, 23 November : 13:40-15:20**

**Room3 15. Tue3-2**

**Vision and Control for Access Space (VCAS)**

Chair : Nozick, V., Paris-Est Marne-la-Vallee University, France

Co-chair : Aoki, Y., Keio University, Japan

|                  |                                                                                                       |            |
|------------------|-------------------------------------------------------------------------------------------------------|------------|
| <b>YF-000086</b> | <b>Diffusion Control of Particle Filtering for Head Pose and Facial Expression Analysis</b>           | <b>339</b> |
|                  | Takahashi, K., Fukai, H., Mitsukura, Y.                                                               |            |
| <b>YF-002305</b> | <b>Monitoring and In-Process Control of Aluminum Pipe Welding Using Omni-Directional Image Sensor</b> | <b>345</b> |
|                  | Masuda, R. , Baskoro, A. S., Matsui, T., Tsumura, Y., Suga, Y.                                        |            |
| <b>YF-002658</b> | <b>Human-Aware Guidance Robot using Wireless Sensor Network, RFID, and Vision</b>                     | <b>351</b> |
|                  | Enriquez, G., Park, S., Hashimoto, S.                                                                 |            |
| <b>YF-002739</b> | <b>Representation of Haptic Environment by Using Spatial Laplace Operator</b>                         | <b>355</b> |
|                  | Yokokura, Y., Katsura, S.                                                                             |            |
| <b>YF-002917</b> | <b>Body Shape Estimation by Homologous Human Body Model Fitting</b>                                   | <b>361</b> |
|                  | Saito , S., Aoki, Y., Mochimaru , M., Kochi, M.                                                       |            |

**Tuesday, 23 November : 15:40-17:00**

**Room1 16. Tue1-3**

**Advanced Mechatronics II**

Chair : Lamarque, F., University of Compiègne, France

Co-chair : Shibata, M., Seikei University, Japan

|                  |                                                                              |            |
|------------------|------------------------------------------------------------------------------|------------|
| <b>YF-000825</b> | <b>Modeling of a Digital Electromagnetic Actuators Array</b>                 | <b>365</b> |
|                  | Petit, L., Huyan, P. , PELLE, C. , Lamarque, F. , Doré, E.                   |            |
| <b>YF-002224</b> | <b>Attitude Control of a Pipe Inspection Robot Using Laser Pointers</b>      | <b>371</b> |
|                  | Yokoyama, T. , Kikushima, M. , Rezaghorizadeh, M. , Muramatsu, M. , Suga, Y. |            |
| <b>YF-002275</b> | <b>Control of Scan Path and Scan Speed for Laser Welding on the Fly</b>      | <b>377</b> |
|                  | Jo Kwak, S., Hasegawa, T., Sin Kang, H.                                      |            |
| <b>YF-002526</b> | <b>Multi-physics Issues for 3D Electronics</b>                               | <b>383</b> |
|                  | Choley, J. Y., Hammadi, M. , Roumizadeh, B. , Penas, O.                      |            |

**Tuesday, 23 November : 15:40-17:00**

**Room2 17. Tue2-3**

**Advanced Motion Control III**

Chair : Lottin, J., University of Savoie, France

Co-chair : Shimono, T., Yokohama National University, Japan

|                  |                                                                                         |            |
|------------------|-----------------------------------------------------------------------------------------|------------|
| <b>YF-000426</b> | <b>Progress Report on Haptic Robot Hand II with Thrust Wires and PE Lines</b>           | <b>387</b> |
|                  | Suzuki, Y., Ohnishi, K.                                                                 |            |
| <b>YF-000493</b> | <b>Acquisition of Bone Structure in Drilling Process Using Cutting Force Estimation</b> | <b>393</b> |
|                  | Kasahara , Y., Ohnishi, K., Kawana, H., Usuda, S.                                       |            |
| <b>YF-001023</b> | <b>Admittance Control of a Multi-Finger Arm Robot Using Manipulability of Fingers</b>   | <b>399</b> |
|                  | Huang, J., Hori, T., Toyoda, N., Yabuta, T.                                             |            |
| <b>YF-002518</b> | <b><math>H_{\infty}</math> Control of Systems with Time-Delayed Actuators</b>           | <b>405</b> |
|                  | Alpaslan Parlakci, M. N. , Kucukdemiral, I. B.                                          |            |

**Tuesday, 23 November : 15:40-17:00**

**Room3 18. Tue3-3**

**Musculoskeletal Structure Based Robotics II**

Chair : Chang, J.Y., Massey University, New Zealand

Co-chair : Nakazawa, K., Keio University, Japan

|                  |                                                                                                 |            |
|------------------|-------------------------------------------------------------------------------------------------|------------|
| <b>YF-002194</b> | <b>Tension Distribution Considering Tension Limit for 2-Joint Arm with 3 Pairs of 6 Tendons</b> | <b>411</b> |
|                  | Mori, S., Komada, S., Hirai, J.                                                                 |            |
| <b>YF-002437</b> | <b>Transition of Bipedal Robot Control Law Using Neural Network</b>                             | <b>417</b> |
|                  | Nara, Y. , Nakazawa, K.                                                                         |            |
| <b>YF-002763</b> | <b>Swimming Motion of a Lancelet Robot with Flexible Notochord Mechanism</b>                    | <b>421</b> |
|                  | Tsuji, T., Yokoh, T., Kamibayashi, M.                                                           |            |
| <b>YF-002925</b> | <b>Walking-Sensation Feedback Control System with Gravity Compensation of Swing Leg</b>         | <b>425</b> |
|                  | Nagase, K., Katsura, S.                                                                         |            |

### Wednesday, 24 November: 10:50-12:30

#### Room1 19. Wed1-1

##### Haptics for Human Support

Chair : Katsura, S., Keio University, Japan

Co-chair : Wang, X., Southeast University, China

|           |                                                                                                                     |     |
|-----------|---------------------------------------------------------------------------------------------------------------------|-----|
| YF-000841 | <b>Improvement of Safety and Comfort by Haptic Pedal in Inter-Vehicular Distance Control of an Electric Vehicle</b> | 431 |
|           | Jimbo, D., Murakami, T.                                                                                             |     |
| YF-001171 | <b>Sensorless Force Sensing Using Kalman Filtering Techniques for Bilateral Control System</b>                      | 437 |
|           | Mitsantisuk, C., Tran, T. P., Ohishi, K., Katsura, S.                                                               |     |
| YF-001732 | <b>MEMS-Based Tactile Display Using Large Displacement Actuators Arrays</b>                                         | 443 |
|           | Ishikawa, H. , Arouette, X. , Matsumoto, Y. , Miki, N.                                                              |     |
| YF-002674 | <b>An Analysis of the Motion-Copying System</b>                                                                     | 447 |
|           | Tsunashima, N., Katsura, S.                                                                                         |     |
| YF-002909 | <b>An Ungrounded Force Feedback Device Using Gyroscopic Torque</b>                                                  | 453 |
|           | Yamamoto, Y., Takemura, K.                                                                                          |     |

### Wednesday, 24 November: 10:50-12:30

#### Room2 20. Wed2-1

##### Power Assist Systems and Rehabilitation Robots

Chair : Fujimoto, Y., Yokohama National University, Japan

Co-chair : Zhu, C., Maebashi Institute of Technology, Japan

|           |                                                                                                                       |     |
|-----------|-----------------------------------------------------------------------------------------------------------------------|-----|
| YF-001627 | <b>Hydraulic Assist Drive Electronically Controlled for On-road and Off-road Vehicles</b>                             | 458 |
|           | Marcy , D., Tsuyama, M., Hirose, Y.                                                                                   |     |
| YF-001996 | <b>Motion Control of a Multi-Dof Grasper Manipulator for Laparoscopic Surgery</b>                                     | 463 |
|           | Rosset-Lanchet, R., Barthod, C., Ollagnier, J., Giordano, M., Skowron, O., Diouf, M. C.                               |     |
| YF-002259 | <b>Joint Control of Biped Robot with Elastic Joints</b>                                                               | 468 |
|           | Suga, T., Fujimoto., Y.                                                                                               |     |
| YF-002747 | <b>Real-time Control of Power Assist Device for Human Elbow Motion Support Using EMG Signal</b>                       | 474 |
|           | Zhu, C., Suzuki, M., Shimazu, S., Oda, M., Yoshioka, M., Nishikawa, T.                                                |     |
| YF-001945 | <b>Design of the SEU Power-Assistant Exoskeleton (SPAEX) and Improvement of the SPAEX by the use of Tendon-sheath</b> | 480 |
|           | Shan, J., Yali, H, Weiqiang, N., Xingsong, W.                                                                         |     |

### Wednesday, 24 November: 10:50-12:30

#### Room3 21. Wed3-1

##### Image and Signal Processing II

Chair : Tsunoda, O., Tokyo Denki University, Japan

Co-chair : Oda, N., Chitose Institute of Science and Technology, Japan

|           |                                                                                                                  |     |
|-----------|------------------------------------------------------------------------------------------------------------------|-----|
| YF-000051 | <b>A Discussion of Neural Network Simplification Based on Genetic Algorithm</b>                                  | 486 |
|           | Suzuki, S.Mitsukura, Y.                                                                                          |     |
| YF-000337 | <b>Music Effects Analysis for Image Impression –The Relation between Physical Feature and Kansei Information</b> | 492 |
|           | Sato, K., Mitsukura, Y.                                                                                          |     |
| YF-002186 | <b>Nano-Level 3-D sharp Measurement Using Color Analysis of RGB LED Light Interference Fringes</b>               | 497 |
|           | Kimura, D., Hata, S., Hayashi, J., Iwamoto, M., Morimoto, S., Kobayashi, H.                                      |     |
| YF-002399 | <b>Efficient Computation of Optical Flow Using Complementary Voting</b>                                          | 502 |
|           | Fang, M., Takauji, H., Kaneko, S.                                                                                |     |
| YF-002712 | <b>Robust Age Estimation for Face Posture Change</b>                                                             | 508 |
|           | Fukai, H., Takimoto, H., Mitsukura, Y., Fukumi, M.                                                               |     |

### Wednesday, 24 November: 14:30-16:10

#### Room1 22. Wed1-2

##### Advanced Mechatronics III

Chair : Takahashi, M., Keio University, Japan

Co-chair : Murao, T., Advanced Institute of Industrial Technology, Japan

|           |                                                                                                        |     |
|-----------|--------------------------------------------------------------------------------------------------------|-----|
| YF-000191 | <b>Robust Inter-vehicular Distance Control in Vehicle Tracking considering Cornering Circumstances</b> | 514 |
|           | Kim, B., Murakami, T.                                                                                  |     |
| YF-001104 | <b>Analysis of Tool Control of Hydraulic Equipment for Load Non Reversal</b>                           | 520 |
|           | Diouf, M. C. , Lottin, J., Chinoune, Y.                                                                |     |
| YF-000639 | <b>Step Climbing Control in Pushing Operation by Mobile Manipulator</b>                                | 526 |
|           | Fujimoto, Y., Murakami, T.                                                                             |     |
| YF-001651 | <b>Long-Life Test of an Optically Controlled Bistable Actuator</b>                                     | 532 |
|           | Zaidi, S., Lamarque, F., Prella, C. , Carton, O., Boudaoud, N., Cherfi, Z.                             |     |
| YF-002887 | <b>Development of a Laser Range Finder Guided Autonomous Mobile Robot</b>                              | 538 |
|           | Fargeaudoux, L., Almanji, A., Chang, J. Y.                                                             |     |

### Wednesday, 24 November: 14:30-16:10

#### Room2 23. Wed2-2

##### Sensing Systems and Control

Chair : Kaneko, S., Hokkaido University, Japan

Co-chair : Ishimaru, I., Kagawa University, Japan

|           |                                                                                                                                   |     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| YF-000167 | <b>A Realization of Stable Configuration for Operational Object by Compliance Control Based Mobile Manipulator with Dual Arms</b> | 543 |
|           | Murai, K., Murakami, T.                                                                                                           |     |
| YF-000647 | <b>Feasibility Demonstration of Real-Time Measurement by One-Shot Compact Fourier Spectroscopic Imaging</b>                       | 549 |
|           | Uraki, T., Ishimaru, I.                                                                                                           |     |
| YF-001163 | <b>Study of a Fatigue Analysis Method in a Manual Assembly</b>                                                                    | 554 |
|           | Kanda, K., Uno, S., Tsunoda, O.                                                                                                   |     |
| YF-002933 | <b>Feasibility Study of GPGPU Acceleration for PC-based Control</b>                                                               | 560 |
|           | Koyama, K., Yakoh, T.                                                                                                             |     |
| YF-002704 | <b>Direct Lyapunov Method for Stabilizing Pendulum on a Cart System</b>                                                           | 564 |
|           | Turker, T., Gorgun, H., Cansever, G.                                                                                              |     |

### Wednesday, 24 November: 14:30-16:10

#### Room3 24. Wed3-2

##### Nonlinear System and Analysis

Chair : Takemura, K., Keio University, Japan

Co-chair : Badel, A., SYMME, Savoie Univ., France

|           |                                                                                                                               |     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----|
| YF-000787 | <b>A New Non linear Energy Harvesting Approach for Inertial Electromagnetic Micro-generator</b>                               | 569 |
|           | Badel, A., Arroyo, E., Formosa, F.                                                                                            |     |
| YF-001147 | <b>A Stabilization Control of Hanging Load by Two-Wheels Driven Mobile Manipulator Based on Absolute Coordinate</b>           | 574 |
|           | Watanabe, M., Murakami, T.                                                                                                    |     |
| YF-001554 | <b>Force Control of 3-Mass Resonant System Based on Resonance Ratio Control</b>                                               | 580 |
|           | Yorozu, S., Katsura, S.                                                                                                       |     |
| YF-002143 | <b>Single Degree of Freedom Active Isolation Using Amplified Piezoelectric Actuator with a Hysteresis Compensation Method</b> | 586 |
|           | Le Breton, R. , Badel, A. , Lottin, J.                                                                                        |     |
| YF-002666 | <b>Construction of Heat Inflow Control System Based on Disturbance Heat Flow Estimation</b>                                   | 591 |
|           | Morimitsu, H., Katsura, S.                                                                                                    |     |

# Authors Index

|          |                          |           |             |
|----------|--------------------------|-----------|-------------|
| <b>A</b> | Abiko, K.                | YF-000329 | 5 . Mon2-2  |
|          | Adachihara, S.           | YF-001015 | 9 . Mon3-3  |
|          | Ahmad, H.                | YF-000477 | 1 . Mon1-1  |
|          | Almanji, A.              | YF-002844 | 13 . Tue1-2 |
|          | Almanji, A.              | YF-002887 | 22 . Wed1-2 |
|          | Alpaslan Parlakci, M. N. | YF-002518 | 17 . Tue2-3 |
|          | Aoki, Y.                 | YF-002917 | 15 . Tue3-2 |
|          | Aoyama, H.               | YF-000965 | 12 . Tue3-1 |
|          | Aoyama, H.               | YF-001015 | 9 . Mon3-3  |
|          | Aoyama, H.               | YF-003247 | 25 . Wed4-3 |
|          | Arikawa, T.              | YF-000868 | 7 . Mon1-3  |
|          | Arnault, B.              | YF-002062 | 2 . Mon2-1  |
|          | Arnault, B.              | YF-002119 | 9 . Mon3-3  |
|          | Arouette, X.             | YF-001732 | 19 . Wed1-1 |
|          | Arroyo, E.               | YF-000787 | 24 . Wed3-2 |
| <b>B</b> | Badel, A.                | YF-000787 | 24 . Wed3-2 |
|          | Badel, A.                | YF-001619 | 12 . Tue3-1 |
|          | Badel, A.                | YF-002143 | 24 . Wed3-2 |
|          | Balik, G.                | YF-001619 | 12 . Tue3-1 |
|          | Barthod, C.              | YF-001996 | 20 . Wed2-1 |
|          | Baskoro, A. R.           | YF-002283 | 4 . Mon1-2  |
|          | Baskoro, A. S.           | YF-002305 | 15 . Tue3-2 |
|          | Benoit, E.               | YF-002356 | 7 . Mon1-3  |
|          | Bolzoni, B.              | YF-001619 | 12 . Tue3-1 |
|          | Boudaoud, N.             | YF-001651 | 22 . Wed1-2 |
|          | Boutarel, F.             | YF-000353 | 6 . Mon3-2  |
|          | Brauer, P.               | YF-001031 | 12 . Tue3-1 |
|          | Bricogne, M.             | YF-000833 | 4 . Mon1-2  |
|          | Brunetti, L.             | YF-001619 | 12 . Tue3-1 |
| <b>C</b> | Cansever, G.             | YF-002704 | 23 . Wed2-2 |
|          | Cao, J.                  | YF-003093 | 25 . Wed4-3 |
|          | Caron, B.                | YF-001619 | 12 . Tue3-1 |
|          | Carton, O.               | YF-001651 | 22 . Wed1-2 |
|          | Chaillet, N.             | YF-002682 | 9 . Mon3-3  |
|          | Chang, J. Y.             | YF-002844 | 13 . Tue1-2 |
|          | Chang, J. Y.             | YF-002887 | 22 . Wed1-2 |
|          | Cherfi, Z.               | YF-001651 | 22 . Wed1-2 |
|          | Chinoune, Y.             | YF-001104 | 22 . Wed1-2 |
|          | Choley, J. Y.            | YF-002313 | 4 . Mon1-2  |
|          | Choley, J. Y.            | YF-002321 | 10 . Tue1-1 |
|          | Choley, J. Y.            | YF-002526 | 16 . Tue1-3 |
|          | Choley, J. Y.            | YF-003255 | 25 . Wed4-3 |
|          | Cuta, A. N.              | YF-002402 | 5 . Mon2-2  |
| <b>D</b> | Daud, O. A.              | YF-002755 | 1 . Mon1-1  |
|          | Deleglise, G.            | YF-001619 | 12 . Tue3-1 |
|          | Diouf, M. C.             | YF-001104 | 22 . Wed1-2 |
|          | Diouf, M. C.             | YF-001996 | 20 . Wed2-1 |
|          | Do Duc, N.               | YF-002364 | 10 . Tue1-1 |

|                     |           |             |
|---------------------|-----------|-------------|
| Dore, E.            | YF-003263 | 25 . Wed4-3 |
| Doré, E.            | YF-000825 | 16 . Tue1-3 |
| <b>E</b> Eguchi, Y. | YF-001872 | 8 . Mon1-3  |
| Enriquez, G.        | YF-002658 | 15 . Tue3-2 |
| Eun Song, Y.        | YF-000256 | 14 . Tue2-2 |
| Eynard, B.          | YF-000833 | 4 . Mon1-2  |
| <b>F</b> Fang, M.   | YF-002399 | 21 . Wed3-1 |
| Fargeaudoux, L.     | YF-002887 | 22 . Wed1-2 |
| Forgez, C.          | YF-003263 | 25 . Wed4-3 |
| Formosa, F.         | YF-000787 | 24 . Wed3-2 |
| Fuji, T.            | YF-000329 | 5 . Mon2-2  |
| Fujidai, T.         | YF-001333 | 7 . Mon1-3  |
| Fujimoto, Y.        | YF-000639 | 22 . Wed1-2 |
| Fujimoto, Y.        | YF-001678 | 3 . Mon3-1  |
| Fujimoto, Y.        | YF-001929 | 3 . Mon3-1  |
| Fujimoto, Y.        | YF-002259 | 20 . Wed2-1 |
| Fujita, M.          | YF-000035 | 6 . Mon3-2  |
| Fukai, H.           | YF-000086 | 15 . Tue3-2 |
| Fukai, H.           | YF-000329 | 5 . Mon2-2  |
| Fukai, H.           | YF-002712 | 21 . Wed3-1 |
| Fukumi, M.          | YF-002712 | 21 . Wed3-1 |
| <b>G</b> Gatto, F.  | YF-002356 | 7 . Mon1-3  |
| Gauthier, M.        | YF-002682 | 9 . Mon3-3  |
| Giordano, M.        | YF-001996 | 20 . Wed2-1 |
| Gorgun, H.          | YF-002704 | 23 . Wed2-2 |
| <b>H</b> Hamada, T. | YF-001953 | 6 . Mon3-2  |
| Hammadi, M.         | YF-002526 | 16 . Tue1-3 |
| Han, C.             | YF-003174 | 25 . Wed4-3 |
| Haneyoshi, T.       | YF-001961 | 3 . Mon3-1  |
| Hasegawa, T.        | YF-002275 | 16 . Tue1-3 |
| Hashimoto, H.       | YF-000078 | 4 . Mon1-2  |
| Hashimoto, H.       | YF-000256 | 14 . Tue2-2 |
| Hashimoto, H.       | YF-003174 | 25 . Wed4-3 |
| Hashimoto, S.       | YF-002658 | 15 . Tue3-2 |
| Hata, N.            | YF-000965 | 12 . Tue3-1 |
| Hata, S.            | YF-001953 | 6 . Mon3-2  |
| Hata, S.            | YF-002186 | 21 . Wed3-1 |
| Hata, S.            | YF-003204 | 25 . Wed4-3 |
| Hatta, Y.           | YF-000507 | 2 . Mon2-1  |
| Hayakawa, S.        | YF-000027 | 13 . Tue1-2 |
| Hayashi, J.         | YF-001953 | 6 . Mon3-2  |
| Hayashi, J.         | YF-002186 | 21 . Wed3-1 |
| Hayashi, Y.         | YF-001872 | 8 . Mon1-3  |
| Hirai, J.           | YF-002194 | 18 . Tue3-3 |
| Hirata, S.          | YF-000965 | 12 . Tue3-1 |
| Hirata, S.          | YF-001015 | 9 . Mon3-3  |
| Hirose, K.          | YF-001015 | 9 . Mon3-3  |
| Hirose, Y.          | YF-001627 | 20 . Wed2-1 |
| Hojoh, H.           | YF-001953 | 6 . Mon3-2  |



|                            |           |             |
|----------------------------|-----------|-------------|
| Hori, T.                   | YF-001023 | 17 . Tue2-3 |
| Hori, Y.                   | YF-002496 | 3 . Mon3-1  |
| Horie, R.                  | YF-000248 | 2 . Mon2-1  |
| Hotta, Y.                  | YF-001589 | 14 . Tue2-2 |
| Huang, J.                  | YF-001023 | 17 . Tue2-3 |
| Huang, S. Y.               | YF-002631 | 8 . Mon1-3  |
| Huyan, P.                  | YF-000825 | 16 . Tue1-3 |
| Hwang, Y. R.               | YF-002631 | 8 . Mon1-3  |
| <b>I</b> Ikeura, R.        | YF-000027 | 13 . Tue1-2 |
| Irie, Y.                   | YF-001015 | 9 . Mon3-3  |
| Ishibashi, S.              | YF-000027 | 13 . Tue1-2 |
| Ishigami, Y.               | YF-001341 | 5 . Mon2-2  |
| Ishikawa, H.               | YF-001732 | 19 . Wed1-1 |
| Ishimaru, I.               | YF-000574 | 11 . Tue2-1 |
| Ishimaru, I.               | YF-000647 | 23 . Wed2-2 |
| Ishimaru, I.               | YF-001341 | 5 . Mon2-2  |
| Ishino, H.                 | YF-002623 | 11 . Tue2-1 |
| Ishino, Y.                 | YF-001309 | 8 . Mon1-3  |
| Ito, M.                    | YF-002488 | 5 . Mon2-2  |
| Iwamoto, M.                | YF-002186 | 21 . Wed3-1 |
| <b>J</b> Jayasekara, P. G. | YF-000256 | 14 . Tue2-2 |
| Jeremie, A.                | YF-001619 | 12 . Tue3-1 |
| Jimbo, D.                  | YF-000841 | 19 . Wed1-1 |
| Jo Kwak, S.                | YF-002275 | 16 . Tue1-3 |
| <b>K</b> Kamibayashi, M.   | YF-002763 | 18 . Tue3-3 |
| Kanamori, C.               | YF-003247 | 25 . Wed4-3 |
| Kanashima, T.              | YF-000396 | 12 . Tue3-1 |
| Kanda, K.                  | YF-001163 | 23 . Wed2-2 |
| Kaneko, S.                 | YF-002399 | 21 . Wed3-1 |
| Kasahara , Y.              | YF-000493 | 17 . Tue2-3 |
| Katsura, S.                | YF-001171 | 19 . Wed1-1 |
| Katsura, S.                | YF-001554 | 24 . Wed3-2 |
| Katsura, S.                | YF-001864 | 13 . Tue1-2 |
| Katsura, S.                | YF-002445 | 9 . Mon3-3  |
| Katsura, S.                | YF-002453 | 4 . Mon1-2  |
| Katsura, S.                | YF-002666 | 24 . Wed3-2 |
| Katsura, S.                | YF-002674 | 19 . Wed1-1 |
| Katsura, S.                | YF-002739 | 15 . Tue3-2 |
| Katsura, S.                | YF-002925 | 18 . Tue3-3 |
| Kawai, H.                  | YF-000035 | 6 . Mon3-2  |
| Kawajiri, T.               | YF-000574 | 11 . Tue2-1 |
| Kawajiri, T.               | YF-001341 | 5 . Mon2-2  |
| Kawamura, T.               | YF-000183 | 13 . Tue1-2 |
| Kawana, H.                 | YF-000493 | 17 . Tue2-3 |
| Kharboutly, M.             | YF-002682 | 9 . Mon3-3  |
| Kikushima, M.              | YF-002224 | 16 . Tue1-3 |
| Kim, B.                    | YF-000191 | 22 . Wed1-2 |
| Kim, T.                    | YF-002283 | 4 . Mon1-2  |
| Kimura, D.                 | YF-002186 | 21 . Wed3-1 |
| Kimura, H.                 | YF-003093 | 25 . Wed4-3 |

|                        |           |                   |
|------------------------|-----------|-------------------|
| Kobayashi, H.          | YF-002186 | 21 . Wed3-1       |
| Kochi, M.              | YF-002917 | 15 . Tue3-2       |
| Komada, S.             | YF-002194 | 18 . Tue3-3       |
| Koshimizu, S.          | YF-003174 | 25 . Wed4-3       |
| Kosugi, T.             | YF-002445 | 9 . Mon3-3        |
| Koyama, K.             | YF-002933 | 23 . Wed2-2       |
| Kuan, C. P.            | YF-002631 | 8 . Mon1-3        |
| Kubo, R.               | YF-002348 | 8 . Mon1-3        |
| Kubota, M.             | YF-002488 | 5 . Mon2-2        |
| Kubota, N.             | YF-003093 | 25 . Wed4-3       |
| Kucukdemiral, I. B.    | YF-002518 | 17 . Tue2-3       |
| Kumagai, Y.            | YF-000868 | 7 . Mon1-3        |
| <b>L</b> Laing, C.     | YF-002844 | 13 . Tue1-2       |
| Lamarque, F.           | YF-000825 | 16 . Tue1-3       |
| Lamarque, F.           | YF-001651 | 22 . Wed1-2       |
| Lamarque, F.           | YF-003263 | 25 . Wed4-3       |
| Lanfranchi, V.         | YF-003263 | 25 . Wed4-3       |
| Le Breton, R.          | YF-001619 | 12 . Tue3-1       |
| Le Breton, R.          | YF-002143 | 24 . Wed3-2       |
| Lefèbvre, P.           | YF-003263 | 25 . Wed4-3       |
| Lottin, J.             | YF-001104 | 22 . Wed1-2       |
| Lottin, J.             | YF-001619 | 12 . Tue3-1       |
| Lottin, J.             | YF-002143 | 24 . Wed3-2       |
| Lottin, J.             | YF-003158 | 25 . Wed4-3       |
| <b>M</b> Mabuchi , S.  | YF-002267 | 14 . Tue2-2       |
| Makino, K.             | YF-000078 | 4 . Mon1-2        |
| Marcy , D.             | YF-001627 | 20 . Wed2-1       |
| Masiero, S.            | YF-002755 | 1 . Mon1-1        |
| Masuda, R.             | YF-002305 | 15 . Tue3-2       |
| Matsui, H.             | YF-001961 | 3 . Mon3-1        |
| Matsui, T.             | YF-002305 | 15 . Tue3-2       |
| Matsumoto, Y.          | YF-001732 | 19 . Wed1-1       |
| Meizel, D.             | YF-000418 | 14 . Tue2-2       |
| Meyine, A. M.          | YF-000833 | 4 . Mon1-2        |
| Miki, N.               | YF-001317 | 5 . Mon2-2        |
| Miki, N.               | YF-001589 | 14 . Tue2-2       |
| Miki, N.               | YF-001732 | 19 . Wed1-1       |
| Ming, A.               | YF-003247 | 25 . Wed4-3       |
| Mito, W.               | YF-000396 | 12 . Tue3-1       |
| Mitsantisuk, C.        | YF-001171 | 19 . Wed1-1       |
| Mitsukura, Y.          | YF-000051 | 21 . Wed3-1       |
| Mitsukura, Y.          | YF-000086 | 15 . Tue3-2       |
| Mitsukura, Y.          | YF-000329 | 5 . Mon2-2        |
| Mitsukura, Y.          | YF-000337 | 21 . Wed3-1       |
| Mitsukura, Y.          | YF-002712 | 21 . Wed3-1       |
| Mizanoor Rahman, S. M. | YF-000027 | 13 . Tue1-2       |
| Mizuno, T.             | YF-001309 | 8 . Mon1-3        |
| Mochimaru , M.         | YF-002917 | 15 . Tue3-2       |
| Morelle, J. M.         |           | Plenary session 2 |
| Mori, S.               | YF-002194 | 18 . Tue3-3       |
| Morimitsu, H.          | YF-002666 | 24 . Wed3-2       |

|                       |           |                   |
|-----------------------|-----------|-------------------|
| Morimoto, S.          | YF-002186 | 21 . Wed3-1       |
| Moro, A.              | YF-002127 | 6 . Mon3-2        |
| Motoi, N.             | YF-002348 | 8 . Mon1-3        |
| Mumolo, E.            | YF-002127 | 6 . Mon3-2        |
| Murai, K.             | YF-000167 | 23 . Wed2-2       |
| Murakami, T.          | YF-000167 | 23 . Wed2-2       |
| Murakami, T.          | YF-000175 | 14 . Tue2-2       |
| Murakami, T.          | YF-000183 | 13 . Tue1-2       |
| Murakami, T.          | YF-000191 | 22 . Wed1-2       |
| Murakami, T.          | YF-000248 | 2 . Mon2-1        |
| Murakami, T.          | YF-000639 | 22 . Wed1-2       |
| Murakami, T.          | YF-000841 | 19 . Wed1-1       |
| Murakami, T.          | YF-001147 | 24 . Wed3-2       |
| Murakami, T.          | YF-002623 | 11 . Tue2-1       |
| Muramatsu, M.         | YF-002224 | 16 . Tue1-3       |
| Murao, T.             | YF-000035 | 6 . Mon3-2        |
| Murata, Y.            | YF-002283 | 4 . Mon1-2        |
| Muro, T.              | YF-001317 | 5 . Mon2-2        |
| Musceleanu, M.        | YF-002402 | 5 . Mon2-2        |
| <b>N</b> Nagahara, M. | YF-001988 | 10 . Tue1-1       |
| Nagai, M.             | YF-001333 | 7 . Mon1-3        |
| Nagasawa, K.          | YF-002208 | 13 . Tue1-2       |
| Nagase, K.            | YF-002925 | 18 . Tue3-3       |
| Nakayama, Y.          | YF-000442 | 11 . Tue2-1       |
| Nakazawa, K.          | YF-002437 | 18 . Tue3-3       |
| Namerikawa, T.        | YF-000477 | 1 . Mon1-1        |
| Namerikawa, T.        | YF-002364 | 10 . Tue1-1       |
| Nara, Y.              | YF-002437 | 18 . Tue3-3       |
| Natori, K.            | YF-001694 | 1 . Mon1-1        |
| Natori, K.            | YF-001872 | 8 . Mon1-3        |
| Nishikawa, T.         | YF-002747 | 20 . Wed2-1       |
| Nishiyama, A.         | YF-000574 | 11 . Tue2-1       |
| Nitu, C.              | YF-002402 | 5 . Mon2-2        |
| Noguchi, M.           | YF-000914 | 11 . Tue2-1       |
| Nolich, M.            | YF-002127 | 6 . Mon3-2        |
| Noma, H.              | YF-000396 | 12 . Tue3-1       |
| Nozick, V.            | YF-000345 | 6 . Mon3-2        |
| Nozick, V.            | YF-000353 | 6 . Mon3-2        |
| <b>O</b> Obata, S.    | YF-001961 | 3 . Mon3-1        |
| Oboe, R.              | YF-002755 | 1 . Mon1-1        |
| Oboe, R.              | YF-003271 | Plenary session 3 |
| Oda, M.               | YF-002747 | 20 . Wed2-1       |
| Oda, N.               | YF-002267 | 14 . Tue2-2       |
| Ogawa, Y.             | YF-000078 | 4 . Mon1-2        |
| Oh, S.                | YF-002496 | 3 . Mon3-1        |
| Ohashi, G.            | YF-000868 | 7 . Mon1-3        |
| Ohishi, K.            | YF-001171 | 19 . Wed1-1       |
| Ohnishi, K.           | YF-000019 | 2 . Mon2-1        |
| Ohnishi, K.           | YF-000426 | 17 . Tue2-3       |
| Ohnishi, K.           | YF-000493 | 17 . Tue2-3       |
| Ohnishi, K.           | YF-002208 | 13 . Tue1-2       |

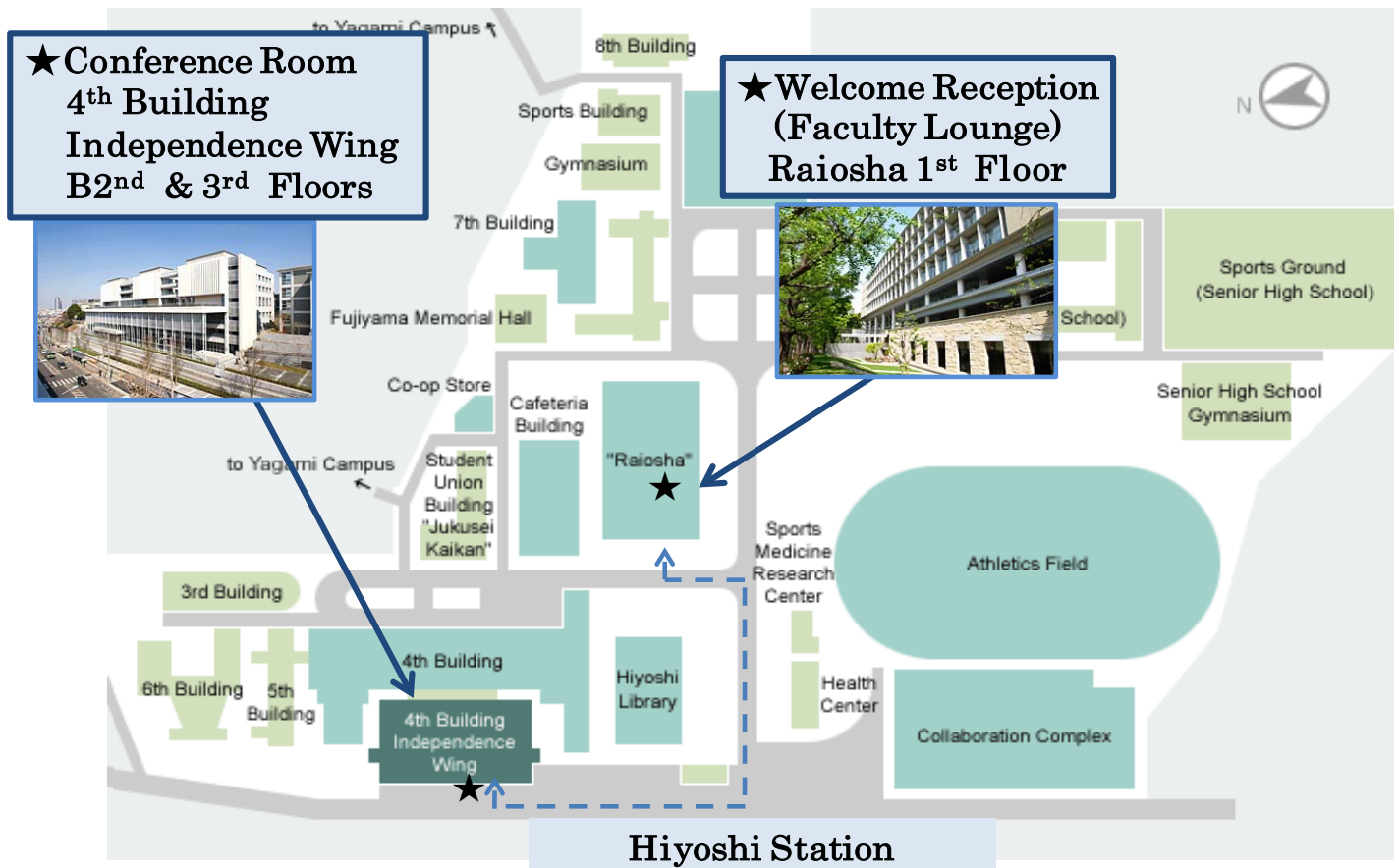
|                      |           |                   |
|----------------------|-----------|-------------------|
| Ohnishi, K.          | YF-003298 | Plenary session 1 |
| Oikawa, A.           | YF-001317 | 5 . Mon2-2        |
| Okura, T.            | YF-002453 | 4 . Mon1-2        |
| Okuyama, M.          | YF-000396 | 12 . Tue3-1       |
| Ollagnier, J.        | YF-001996 | 20 . Wed2-1       |
| Oscari, F.           | YF-002755 | 1 . Mon1-1        |
| <b>P</b> Pacquet, L. | YF-001619 | 12 . Tue3-1       |
| Park, S.             | YF-002658 | 15 . Tue3-2       |
| Penas, O.            | YF-002313 | 4 . Mon1-2        |
| Penas, O.            | YF-002321 | 10 . Tue1-1       |
| Penas, O.            | YF-002526 | 16 . Tue1-3       |
| Petit, L.            | YF-000825 | 16 . Tue1-3       |
| Petit, L.            | YF-000833 | 4 . Mon1-2        |
| Peyraud, S.          | YF-000418 | 14 . Tue2-2       |
| Plateaux, R.         | YF-002313 | 4 . Mon1-2        |
| Plateaux, R.         | YF-002321 | 10 . Tue1-1       |
| Pouille, P.          | YF-003263 | 25 . Wed4-3       |
| Prelle, C.           | YF-000825 | 16 . Tue1-3       |
| Prelle, C.           | YF-001651 | 22 . Wed1-2       |
| Prelle, C.           | YF-003263 | 25 . Wed4-3       |
| <b>Q</b> Qi, W.      | YF-000574 | 11 . Tue2-1       |
| <b>R</b> Renault, S. | YF-000418 | 14 . Tue2-2       |
| Rezaghorizadeh, M.   | YF-002224 | 16 . Tue1-3       |
| Rigatos, G. G.       | YF-002429 | 10 . Tue1-1       |
| Rivière, A.          | YF-002313 | 4 . Mon1-2        |
| Rosati, G.           | YF-002755 | 1 . Mon1-1        |
| Rosset-Lanchet, R.   | YF-001996 | 20 . Wed2-1       |
| Roumizadeh, B.       | YF-002526 | 16 . Tue1-3       |
| <b>S</b> Saito , S.  | YF-002917 | 15 . Tue3-2       |
| Saito, Y.            | YF-000914 | 11 . Tue2-1       |
| Saito, Y.            | YF-002208 | 13 . Tue1-2       |
| Salvucci, V.         | YF-002496 | 3 . Mon3-1        |
| Sasaki, T.           | YF-000256 | 14 . Tue2-2       |
| Sato, K.             | YF-000337 | 21 . Wed3-1       |
| Sato, T.             | YF-003298 | Plenary session 1 |
| Sawada, H.           | YF-002356 | 7 . Mon1-3        |
| Sawai, H.            | YF-000027 | 13 . Tue1-2       |
| Schuhmann, T.        | YF-001031 | 12 . Tue3-1       |
| Shahadat, M. M. Z.   | YF-001309 | 8 . Mon1-3        |
| Shan, J.             | YF-001945 | 20 . Wed2-1       |
| She, J.              | YF-000078 | 4 . Mon1-2        |
| Shibata, M.          | YF-002488 | 5 . Mon2-2        |
| Shimazu, S.          | YF-002747 | 20 . Wed2-1       |
| Shimojo, M.          | YF-003247 | 25 . Wed4-3       |
| Shimono, T.          | YF-000507 | 2 . Mon2-1        |
| Shukor, A. Z.        | YF-001678 | 3 . Mon3-1        |
| Sin Kang, H.         | YF-002275 | 16 . Tue1-3       |
| Skowron, O.          | YF-001996 | 20 . Wed2-1       |
| Sohgawa, M.          | YF-000396 | 12 . Tue3-1       |

|                       |           |             |
|-----------------------|-----------|-------------|
| Soriano, T.           | YF-002062 | 2 . Mon2-1  |
| Soriano, T.           | YF-002119 | 9 . Mon3-3  |
| Stephen, K.           | YF-001848 | 7 . Mon1-3  |
| Suga, T.              | YF-002259 | 20 . Wed2-1 |
| Suga, Y.              | YF-002224 | 16 . Tue1-3 |
| Suga, Y.              | YF-002283 | 4 . Mon1-2  |
| Suga, Y.              | YF-002305 | 15 . Tue3-2 |
| Suzuki, H.            | YF-000175 | 14 . Tue2-2 |
| Suzuki, M.            | YF-002747 | 20 . Wed2-1 |
| Suzuki, S.            | YF-000051 | 21 . Wed3-1 |
| Suzuki, Y.            | YF-000426 | 17 . Tue2-3 |
| <b>T</b> Tabata, H.   | YF-003174 | 25 . Wed4-3 |
| Tada, M.              | YF-000396 | 12 . Tue3-1 |
| Takahashi, K.         | YF-000086 | 15 . Tue3-2 |
| Takahashi, S.         | YF-000574 | 11 . Tue2-1 |
| Takahashi, S.         | YF-001341 | 5 . Mon2-2  |
| Takasaki, M.          | YF-001309 | 8 . Mon1-3  |
| Takauji, H.           | YF-002399 | 21 . Wed3-1 |
| Takemura, K.          | YF-002909 | 19 . Wed1-1 |
| Takimoto, H.          | YF-002712 | 21 . Wed3-1 |
| Takuma, T.            | YF-000574 | 11 . Tue2-1 |
| Tanaka, K.            | YF-003247 | 25 . Wed4-3 |
| Terabayashi, K.       | YF-002127 | 6 . Mon3-2  |
| Terada, K.            | YF-001848 | 7 . Mon1-3  |
| Teramoto, Y.          | YF-003174 | 25 . Wed4-3 |
| Terasaki, K.          | YF-000965 | 12 . Tue3-1 |
| Tian, D.              | YF-000019 | 2 . Mon2-1  |
| Tomita, H.            | YF-000914 | 11 . Tue2-1 |
| Toyoda, N.            | YF-001023 | 17 . Tue2-3 |
| Tran, T. P.           | YF-001171 | 19 . Wed1-1 |
| Troussier, N.         | YF-000833 | 4 . Mon1-2  |
| Trufasu, A. O.        | YF-002402 | 5 . Mon2-2  |
| Trufasu, C. L.        | YF-002402 | 5 . Mon2-2  |
| Tseng, G. C.          | YF-002631 | 8 . Mon1-3  |
| Tsuda, K.             | YF-001848 | 7 . Mon1-3  |
| Tsuji, T.             | YF-002763 | 18 . Tue3-3 |
| Tsumura, Y.           | YF-002305 | 15 . Tue3-2 |
| Tsunashima, N.        | YF-002674 | 19 . Wed1-1 |
| Tsunoda, O.           | YF-000442 | 11 . Tue2-1 |
| Tsunoda, O.           | YF-000914 | 11 . Tue2-1 |
| Tsunoda, O.           | YF-001163 | 23 . Wed2-2 |
| Tsutsumi, R.          | YF-000574 | 11 . Tue2-1 |
| Tsuyama, M.           | YF-001627 | 20 . Wed2-1 |
| Turker, T.            | YF-002704 | 23 . Wed2-2 |
| <b>U</b> Uchimura, Y. | YF-000876 | 1 . Mon1-1  |
| Uchimura, Y.          | YF-001988 | 10 . Tue1-1 |
| Ueno, K.              | YF-001325 | 7 . Mon1-3  |
| Umeda, K.             | YF-002127 | 6 . Mon3-2  |
| Umemura, A.           | YF-002208 | 13 . Tue1-2 |
| Uno, S.               | YF-001163 | 23 . Wed2-2 |
| Uraki, T.             | YF-000574 | 11 . Tue2-1 |

|          |               |           |                   |
|----------|---------------|-----------|-------------------|
|          | Uraki, T.     | YF-000647 | 23 . Wed2-2       |
|          | Usuda, S.     | YF-000493 | 17 . Tue2-3       |
| <b>W</b> | Wakayama, Y.  | YF-001929 | 3 . Mon3-1        |
|          | Watanabe, M.  | YF-001147 | 24 . Wed3-2       |
|          | Watanabe, T.  | YF-001864 | 13 . Tue1-2       |
|          | Weiqliang, N. | YF-001945 | 20 . Wed2-1       |
|          | Werner, R.    | YF-001031 | 12 . Tue3-1       |
| <b>X</b> | Xingsong, W.  | YF-001945 | 20 . Wed2-1       |
|          | Xu, C.        | YF-003247 | 25 . Wed4-3       |
| <b>Y</b> | Yabuta, T.    | YF-001023 | 17 . Tue2-3       |
|          | Yakoh, T.     | YF-002933 | 23 . Wed2-2       |
|          | Yali, H       | YF-001945 | 20 . Wed2-1       |
|          | Yamada, H.    | YF-000876 | 1 . Mon1-1        |
|          | Yamaguchi, J. | YF-001325 | 7 . Mon1-3        |
|          | Yamaguchi, J. | YF-001333 | 7 . Mon1-3        |
|          | Yamamoto, Y.  | YF-002909 | 19 . Wed1-1       |
|          | Yamazoe, H.   | YF-000396 | 12 . Tue3-1       |
|          | Yashiro, D.   | YF-003298 | Plenary session 1 |
|          | Yokoh, T.     | YF-002763 | 18 . Tue3-3       |
|          | Yokokura, Y.  | YF-002739 | 15 . Tue3-2       |
|          | Yokoyama, K.  | YF-002283 | 4 . Mon1-2        |
|          | Yokoyama, T.  | YF-002224 | 16 . Tue1-3       |
|          | Yorozu, S.    | YF-001554 | 24 . Wed3-2       |
|          | Yoshida , Y.  | YF-001953 | 6 . Mon3-2        |
|          | Yoshida, I.   | YF-003174 | 25 . Wed4-3       |
|          | Yoshida, S.   | YF-000396 | 12 . Tue3-1       |
|          | Yoshikawa, D. | YF-000442 | 11 . Tue2-1       |
|          | Yoshioka, M.  | YF-002747 | 20 . Wed2-1       |
| <b>Z</b> | Zaidi, S.     | YF-001651 | 22 . Wed1-2       |
|          | Zerelli, M.   | YF-002119 | 9 . Mon3-3        |
|          | Zerelli, M.   | YF-002062 | 2 . Mon2-1        |
|          | Zhang, Y.     | YF-001589 | 14 . Tue2-2       |
|          | Zhu, C.       | YF-002747 | 20 . Wed2-1       |



# Hiyoshi Campus Map



## Congress Banquet



### Access to MEGURO GAJOEN

By train:

It takes 25 minutes from Hiyoshi station to Banquet place (20 minutes from Hiyoshi Station to Meguro station by Tokyu Meguro Line and 5 minutes' walk from the Meguro Station as shown in the map).

Address:

1-8-1 Shimomeguro, Meguro-ku, Tokyo  
153-0064,  
Tel: 03-5434-3837