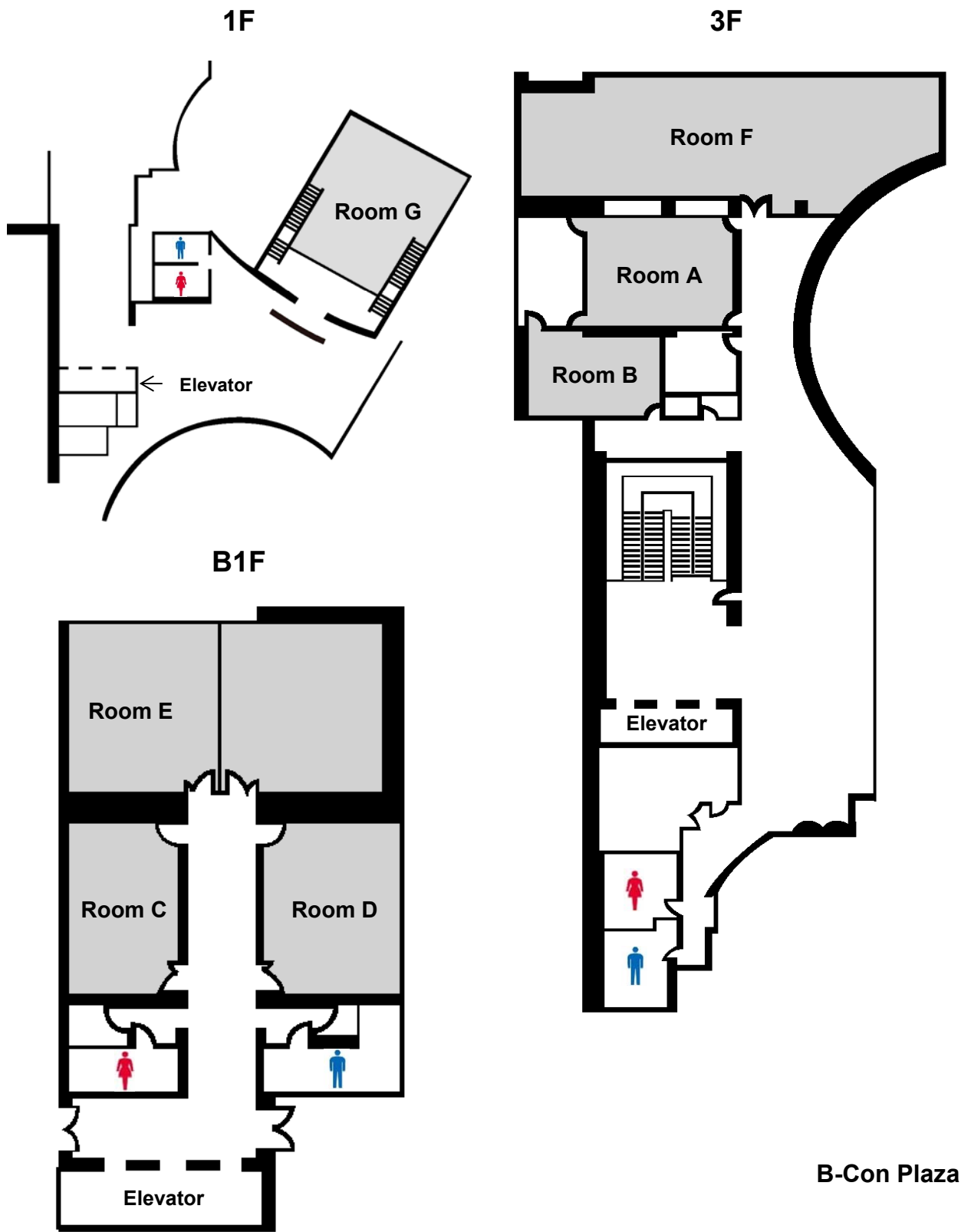


Conference Rooms



**Time Table (January 18, 2018)**

|                    | Room A                                                                                                                                                           | Room B                                                                                     | Room C                                                                  | Room D                                                                             | Room E                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1/17 15:00 – 17:00 | Registration (Registration Desk)                                                                                                                                 |                                                                                            |                                                                         |                                                                                    |                                                           |
| 1/17 18:00 –       | Welcome Party (at Beppu Kamenoi Hotel)                                                                                                                           |                                                                                            |                                                                         |                                                                                    |                                                           |
| 08:00 –            | Registration (Registration Desk)                                                                                                                                 |                                                                                            |                                                                         |                                                                                    |                                                           |
| 09:00 – 10:30      | GS18<br><b>Robotic Mechanism</b><br>Chair: S. Sagara                                                                                                             | ISBC OS1<br><b>Biological and visualization systems</b><br>Chair: K. Naitoh                | GS19<br><b>Sensor and multi-sensor data fusion</b><br>Chair: M.K. Habib | OS10<br><b>Protocomputing</b><br>Chair: M. Kamiura                                 | GS1<br><b>Agent-based modelling</b><br>Chair: K. Nakamura |
| 10:30 – 10:45      | Coffee Break                                                                                                                                                     |                                                                                            |                                                                         |                                                                                    |                                                           |
| 10:45 – 12:00      | OS9<br><b>Modeling and Control of Motion</b><br>Chair: S. Sagara                                                                                                 | OS5<br><b>Computational methods for Human Biological information</b><br>Chair: T. Hiroyasu | GS13<br><b>Motion planning and navigation</b><br>Chair: R. Suzuki       | OS12<br><b>Robotics with Intelligence and/or Informatics 1</b><br>Chair: M. Minami | GS20<br><b>Swarm Intelligence</b><br>Chair: T. Arita      |
| 12:00 – 13:00      | Lunch                                                                                                                                                            |                                                                                            |                                                                         |                                                                                    |                                                           |
| 13:00 – 13:25      | Opening Ceremony (Room G)                                                                                                                                        |                                                                                            |                                                                         |                                                                                    |                                                           |
| 13:25 – 14:15      | <b>Plenary Speech (Room G)</b><br><b>Helping a Robot to Understand Human Actions and Objects</b><br><b>Prof. Florentin Wörgötter</b><br>Chair: Fumitoshi Matsuno |                                                                                            |                                                                         |                                                                                    |                                                           |
| 14:15 – 14:30      | Coffee Break                                                                                                                                                     |                                                                                            |                                                                         |                                                                                    |                                                           |
| 14:30 – 16:00      | OS11<br><b>Robot control and AR/VR</b><br>Chair: M. Yokomichi                                                                                                    | OS17<br><b>System Sensing and Its Applications 1</b><br>Chair: M. Uchida                   |                                                                         | OS13<br><b>Robotics with Intelligence and/or Informatics 2</b><br>Chair: M. Minami | GS7<br><b>Control techniques</b><br>Chair: Y. Taira       |

**OS: Organized Session      GS: General Session**

**Time Table (January 19, 2018)**

|               | Room A                                                                                                                                                                                                                                                                                                           | Room B                                                                   | Room C                                                                         | Room D                                                                             | Room E                                                                                  | Room F                                                                                       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 08:45 –       | Registration (Registration Desk)                                                                                                                                                                                                                                                                                 |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 09:30 – 10:45 | OS15<br><b>Social Simulation</b><br>Chair: I. Noda                                                                                                                                                                                                                                                               |                                                                          | OS18<br><b>System Sensing and Its Applications 2</b><br>Chair: T. Mizuno       | GS12<br><b>Learning</b><br>Chair: T. Fuchida                                       | GS2<br><b>Artificial brain &amp; Brain science</b><br>Chair: H. Araki                   |                                                                                              |
| 10:45 – 11:00 | Coffee Break                                                                                                                                                                                                                                                                                                     |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 11:00 – 11:50 | <b>Engine-verseology: a new mathematical physics solving 100-year-old mysteries of subatomic, biological, cerebral, cosmic, and mechanical engines in the universe and engendering versatile technologies on medicine, information, energy, and mobility</b><br><b>Prof. Ken Naitoh</b><br>Chair: Hiroshi Tanaka |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 11:50– 13:00  | Lunch                                                                                                                                                                                                                                                                                                            |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 13:00 – 14:45 | GS11<br><b>Human-machine interaction and collaboration</b><br>Chair: M. Kaneko                                                                                                                                                                                                                                   | OS4<br><b>Biomimetic Machines and Robots</b><br>Chair: K. Watanabe       | OS6<br><b>Intuitive Human-System Interaction (Part I)</b><br>Chair: M. Yokota  | OS1<br><b>Advanced intelligent system for education</b><br>Chair: E. Nunohiro      | OS16<br><b>System control and optimization for IoT technologies</b><br>Chair: K. Sawada |                                                                                              |
| 14:45 – 15:00 | Coffee Break                                                                                                                                                                                                                                                                                                     |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 15:00 – 16:00 | Poster Session (Room F)                                                                                                                                                                                                                                                                                          |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |
| 16:00 – 17:30 | GS3<br><b>Artificial Intelligence</b><br>Chair: H.-H Lee                                                                                                                                                                                                                                                         | GS4<br><b>Bioinformatics &amp; Medical informatics</b><br>Chair: S. Kato | OS7<br><b>Intuitive Human-System Interaction (Part II)</b><br>Chair: M. Yokota | GS10<br><b>Evolutionary computations (Genetic algorithm)</b><br>Chair: H. Furutani | GS6<br><b>Cognitive science</b><br>Chair: T. Levi                                       | OS14<br><b>Robotics: Design and Intelligence</b><br>will start at 16:15<br>Chair: M.K. Habib |
| 18:30 – 20:30 | Banquet (at Beppu Kamenoi Hotel)                                                                                                                                                                                                                                                                                 |                                                                          |                                                                                |                                                                                    |                                                                                         |                                                                                              |

OS: Organized Session      GS: General Session

**Time Table (January 20, 2018)**

|               | Room A                                                   | Room B                                                                       | Room C                                                 | Room D                                             | Room E                                                                  | Room F                                                                                                                          |
|---------------|----------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 08:30 –       |                                                          |                                                                              | Registration (Registration Desk)                       |                                                    |                                                                         |                                                                                                                                 |
| 09:00 – 10:30 | GS5<br><b>Chaos &amp; Complexity</b><br>Chair: S. Myojin | OS2<br><b>Bio-inspired theory and applications (1)</b><br>Chair: K. Yamamori | GS15<br><b>Neural networks</b><br>Chair: F. Nagata     | GS8<br><b>Data mining 1</b><br>Chair: R. Hatano    | GS16<br><b>Robot vision and image processing 1</b><br>Chair: K. Kawasue | ISBC OS2<br><b>Bridging a gap between pathogenic variant and disease phenotype for precision medicine</b><br>Chair: S. Ogishima |
| 10:30 – 10:45 |                                                          |                                                                              | Coffee Break                                           |                                                    |                                                                         |                                                                                                                                 |
| 10:45 – 12:15 | GS14<br><b>Multi-agent systems</b><br>Chair: T. Ohdaira  | OS3<br><b>Bio-inspired theory and applications (2)</b><br>Chair: K. Yamamori | OS8<br><b>Learning and Control</b><br>Chair: H.-H. Lee | GS9<br><b>Data mining 2</b><br>Chair: M. Teranishi | GS17<br><b>Robot vision and image processing 2</b><br>Chair: K. Yoneda  |                                                                                                                                 |
| 12:15 – 13:00 |                                                          |                                                                              | Farewell Party (Room A)                                |                                                    |                                                                         |                                                                                                                                 |

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