The 1st AIRC-ISIR International Symposium

Program

Registration 8:30 – 9:00

General MC: Dr. Kentaro Imamura (ISIR, Osaka University)

9:00  **Opening address**  
Dr. Katsuaki Suganuma, Director of ISIR

9:05  **Opening address**  
Dr. Shojiro Nisho, President of Osaka University

9:10  **Opening address**  
Dr. Takao Onoe, Executive Vice-president of Osaka University

9:15  **Opening address**  
Dr. Yasushi Yagi, Professor of ISIR

Chair: Dr. Masayuki Numao (ISIR, Osaka University)

9:20  Dr. Peter Flach  
Professor of Artificial Intelligence Machine Learning and Data Mining, University of Bristol  
**Plenary lecture - From Data Mining Processes to Data Science Trajectories**

10:05 Dr. Yuichiro Anzai  
Director of the Science Information Analysis, Japan Society for the Promotion of Science, and Chairperson of the Council for AI Strategy, the Cabinet Office  
**Plenary lecture - The AI Strategy of Japan and Unsolved Problems in Applications**
Chair: Dr. Akira Oiwa (ISIR, Osaka University)
10:50 Dr. Keisuke Fujii
Professor Graduate School of Engineering Science, Osaka University

Chair: Dr. Takeharu Nagai (ISIR, Osaka University)
11:20 Dr. Keisuke Goda
Professor Graduate School of Science, The University of Tokyo
Invited lecture - AI Cell Sorting
11:50 Lunch

Chair: Dr. Yasushi Sakurai (ISIR, Osaka University)
13:00 Dr. Naonori Ueda
Fellow, Head of Ueda Research Laboratory, Director of Machine Learning/Data Science Center NTT Communication Science Laboratories, and Deputy Director, RIKEN Center of Advance Intelligence Project
Plenary lecture - Integration of Inductive and Deductive Inferences-Simulation-based Machine Learning –

Chair: Dr. Tamio Oguchi (ISIR, Osaka University)
13:45 Dr. Koji Tsuda
Professor Graduate School of Frontier Sciences, The University of Tokyo
Invited lecture - Machine Learning Methods for Designing New Materials

Chair: Dr. Tohru Sekino (ISIR, Osaka University)
14:15 Dr. Hiroki Moriwake
Group Leader Nanosimulation group, Nanostructures Research Laboratory Japan Fine Ceramics Center
Invited lecture - Ceramics Materials Research by Collaboration between Theoretical Calculations and Experiments
14:45 Coffee break
AIRC-ISIR lecture
Chair: Dr. Ayumu Asai (ISIR, Osaka University)
15:00 Dr. Shun’ichi Kuroda, Director of AIRC-ISIR
   Introduction of AI Research Center, ISIR
15:15 Dr. Takashi Washio
   Measurement Informatics for Advanced Sensing
15:30 Dr. Tamio Oguchi
   Interpretable Modeling in Materials Informatics
15:45 Dr. Kazunori Komatani
   Human-Agent Interaction with High Dimensional Data
16:00 Dr. Kunihiko Nishino
   Antibiotic-Resistant Bacteria: Biggest Threats and Data
16:15 Dr. Yuki Komoto
   Single-Molecule Discrimination of Neurotransmitters with Machine Learning
16:30 Dr. Yasushi Sakurai
   Real-time Forecasting of IoT Big Data: Foundations and Challenges
16:45 Closing address
   Dr. Yasushi Sakurai, Vice Director of AIRC-ISIR

General MC: Dr. Hideki Noda (ISIR, Osaka University)
17:00 Banquet at Restaurant Grande Toque
19:00 Closing
Organizing Committee

Shun’ichi Kuroda,
Yasushi Sakurai,
Takashi Washio,
Masayuki Numao,
Tsuyoshi Sekitani,
Tohru Sekino,
Hiroaki Sasai,
Tamio Oguchi,
Kazunori Komatani,
Hisaaiki Kato,
Yasushi Makihara,
Yasuko Matsubara,
Yuki Noda,
Kentaro Imamura,
Sho Sato,
Ayumu Asai,
Koichi Sudoh,
Takafumi Fujita,
Kazumasa Okamoto,
Shinobu Takizawa,
Mitsuko Nishino,
Yuki Komoto
Information for Participants

Fees
- Registration: Free
- Banquet: Invited 0 yen
  Participant 5,000 yen
  Student 1,000 yen

Symposium Venue
- Grand Cube Osaka (Osaka International Convention Center)
- 12th Floor ‘Conference Room 1203’
- 5-3-51, Nakanoshima Kita-ku, Osaka 530-0005 JAPAN
- Tel: 06-4803-5555

Banquet
- Restaurant Grande Toque
- 12th Floor of Grand Cube Osaka (Osaka International Convention Center)