

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 Nishio, President of Osaka University

9:10 **Opening address**

Dr. Takao Onoye, 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
**Invited lecture - State-of-the-art Quantum Computing Technology
and Its Application for Machine Learning**

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. Yuki 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,
Hisaaki 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	Free
	Participant	1,000 yen
	Student	Free

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)

