

Thirty-first International Symposium on Artificial Life and Robotics 2026 (AROB 31st 2026),
Eleventh International Symposium on BioComplexity 2026 (ISBC 11th 2026),
B-Con Plaza, Beppu, Japan, January 21-23, 2026

AROB-ISBC 2026

Thirty-First International Symposium on
Artificial Life and Robotics
(AROB 31st 2026)

The Eleventh International Symposium on
BioComplexity
(ISBC 11th 2026)

ORGANIZED BY

International Society of Artificial Life and Robotics (ISAROB)

CO-OPERATED BY

The Society of Instrument and Control Engineers (SICE, Japan)
The Robotics Society of Japan (RSJ, Japan)
The Institute of Systems, Control and Information Engineers (ISCIIE, Japan)
Japan Society for Simulation Technology (JSST, Japan)
The Institute of Electrical Engineers of Japan (IEEJ, Japan)
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HISTORY

The AROB symposium was founded in 1996 under the support of Science and International Affairs Bureau, Ministry of Education, Culture, Sports, Science and Technology, Japanese Government. Since then, the symposium organized by the AROB has been held every year at B-Con Plaza, Beppu, Japan except AROB 5th '00 (Oita), AROB 6th '01 (Tokyo) and AROB 18th '13 (Daejeon, Korea). The thirty-first symposium will be held on January 21-23, 2026, at B-Con PLAZA, Beppu, JAPAN.

OBJECTIVE

This symposium will bring together researchers to discuss development of new technologies concerning *artificial life and robotics* based on computer simulations and hardware designs of state-of-the-art technologies, and to share findings on how advancements in artificial life and robotics technologies that relate to artificial intelligence, virtual reality, and computer science are creating the basis for exciting new research and applications in various fields.

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Accepted papers will be published in the proceeding of AROB-ISBC2026 and some of high quality papers in the proceeding will be requested to re-submit their papers for the consideration of publication in an international journal ARTIFICIAL LIFE AND ROBOTICS. All correspondence related to the symposium should be addressed to AROB Secretariat.

AROB Secretariat

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GENERAL SESSION TOPICS

Agent-based modelling	Machine learning II
Artificial brain	Machine learning III
Artificial intelligence I	Machine learning IV
Artificial intelligence II	Machine learning V
Artificial intelligence III	Machine learning VI & Neural networks
Artificial life	Medical informatics & Biomedical imaging
Bio-inspired robotics	Mobile robots I
Complexity	Mobile robots II
Control techniques	Mobile robots III
Data mining	Motion planning and navigation
Evolutionary computations (Genetic algorithm)	Multi-agent systems
Human-machine interaction and collaboration I	Neurocomputing technologies and its application for hardware
Human-machine interaction and collaboration II	Parallel and distributed computing
Human-machine interaction and collaboration III	Robot vision and image processing
Human-machine interaction and collaboration IV	Robotic Mechanism
Identification and Estimation	Sensor and multi-sensor data fusion
Intelligent control	Walking robot & Modular robotics
Machine learning I	

ORGANIZED SESSION TOPICS

AROB: Advances in Autonomous and Cooperative Drone Systems
AROB: AI & Digital Transformation (DX) for Societal Systems - Explanation, Selection, Design & Evaluation
AROB: AI for Modeling and Optimization in Complex Systems
AROB: Applications of Deep Learning and Robotics
AROB: Bio-inspired Theories and Applications (1)
AROB: Bio-inspired Theories and Applications (2)
AROB: Biomimetic Machines and Robots I
AROB: Biomimetic Machines and Robots II
AROB: Biomimetic Machines and Robots III
AROB: Co-creation in research and education
AROB: Control of Surface and Underwater Robots
AROB: EcoMechatronics and AI
AROB: Intuitive Human-System Interaction I
AROB: Intuitive Human-System Interaction II
AROB: Robotics with Intelligence and/or Informatics I
AROB: Robotics with Intelligence and/or Informatics II
AROB: Swarm and Modular Robotics I
AROB: Swarm and Modular Robotics II
AROB: Swarm-Machine Interaction: Models and Foundations for Collective Behavior I
AROB: Swarm-Machine Interaction: Models and Foundations for Collective Behavior II
AROB: System Sensing and Its Applications I
AROB: System Sensing and Its Applications II
AROB: Toward Secure, Resilient, and Intelligent Autonomous Decentralized Control Systems
ISBC: Complex Systems and Dynamics
ISBC: Individuality and Collectivity in Living Systems III
ISBC: TONAL 2026