

THE NINETEENTH INTERNATIONAL SYMPOSIUM
ON
ARTIFICIAL LIFE AND ROBOTICS

(AROB 19th 2014)

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International Society on Artificial Life and Robotics (ISAROB)

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The Institute of Electrical Engineers of Japan (IEEEJ, Japan)

The Institute of Electronics, Information and Communication Engineers (IEICE, Japan)

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 (ISCIE, Japan)

IEEE Robotics and Automation Society Japan Chapter

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HISTORY

The AROB 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 nineteenth symposium will be held on January 22–24, 2014, 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 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

Artificial intelligence
Artificial life and chaos
Bioinformatics
Cognitive science
Data mining
Evolutionary computations
Human-welfare robotics
Image processing
Intelligent control & modeling
Learning
Multi-agent systems
Neural networks
Neuro computing & brain science
Pattern recognition
Robotics
Robotics & Management of technology

ORGANIZED SESSION TOPICS

Artificial Control and Sensoring
Bio-inspired Theory and Applications
Bio-thermofluid phenomena
Biomimetic Machines and Robots
Clinical omics analysis and genome cohort studies
Construction management and engineering
Educational Technology and Applications
Estimation and Control of Vehicles
Intelligent building and life
Intuitive Human-System Interaction
Learning and Control
Medical imaging
Protocomputing
Robot Control and Planning
Sensor Networks and Image Recognition Applied in Intelligent Machines
System Sensing and Control
System Sensing and Its Applications