

THE SEVENTEENTH INTERNATIONAL SYMPOSIUM
ON
ARTIFICIAL LIFE AND ROBOTICS

(AROB 17th '12)

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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) and AROB 6th '01 (Tokyo). The seventeenth symposium will be held on January 19–21, 2012, 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.

GENERAL SESSION TOPICS

Artificial intelligence
Artificial brain research
Artificial intelligence
Artificial life
Artificial mind research
Bioinformatics
Brain science
Complexity
Control techniques
Data mining
Evolutionary computations

Genetic algorithms
Human-machine cooperative systems
Human-welfare robotics
Image processing
Intelligent control & modeling
Learning
Multi-agent systems
Neural networks
Pattern recognition
Robotics
Poster Session

ORGANIZED SESSION TOPICS

Advanced Vehicle Control
Aware Technologies for e-Services
Bioinformatics
Bio-inspired theory and applications
Biomimetic Machines and Robots
Computer Vision and Sound Analysis
Computer-Supported Learning Systems
Control Application
Control Theory and its Application
Embracing Complexity in Natural Intelligence
Embracing Complexity in System Sensing
Information Technology for Environmental
Research

Intelligent control
Intelligent control & modeling
Intelligent System and Control
Intelligent Systems and Applications
Intuitive Human-System Interaction
Management of technology
Mechatronics and Intelligent Systems
Medical Science and Complex System
Network Dynamics in Biological Information
System
System sensing and control
Systems for defense of disaster

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Accepted papers will be published in the proceedings of AROB and some of high quality papers in the proceedings 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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