THE EIGHTEENTH INTERNATIONAL SYMPOSIUM
ON
ARTIFICIAL LIFE AND ROBOTICS

(AROB 18th '13)

ORGANIZED BY

International Organizing Committee of International Symposium on Artificial Life and Robotics (AROB)

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The Eighteenth International Symposium on Artificial Life and Robotics 2013(AROB 18th '13),
Daejeon Convention Center, Daejeon, Korea, January 30-February 1, 2013

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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 eighteenth symposium will be held on January 30–February 1, 2013, at Daejeon Convention Center, Daejeon, Korea.

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

AROB Secretariat
International Society on Artificial Life and Robotics
A-101, 8-7 Hatakenaka, Oita, 870-0856, Japan

Tel: +81-97-594-0181
Fax: +81-97-547-9242
Email: arobsecr@isarob.org
Home Page：http://isarob.org/

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GENERAL SESSION TOPICS

Artificial intelligence   - 5 -
Artificial life and complexity
Artificial living
Control techniques
Human - machine cooperative systems
Human - welfare robotics
Image processing
Intelligent control & modeling
Learning
Mobile vehicles
Multi agent system
Neural networks
Pattern recognition
Robotics
Virtual reality

ORGANIZED SESSION TOPICS

Applications and Theories of Advanced Technology
Artificial Life and Control
Bio-inspired Theory and Applications
Biomimetic Machines and Robots
Complexity and Diversity
Computer-Supported Learning Systems
Control in Mechatronics and Power Electronics
Control of Mechatronic System
Facial Expression Recognition, Speech Synthesis of Emotions, and Music Recommendation
Information Technology for Environmental Research
Intelligent control and applications
Intelligent control and implement
Intuitive Human-System Interaction
Kansei Engineering and its Applications