

**THE ELEVENTH INTERNATIONAL SYMPOSIUM  
ON  
ARTIFICIAL LIFE AND ROBOTICS  
(AROB 11th '06)**

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Organizing Committee of International Symposium on Artificial Life and Robotics  
(Department of Electrical and Electronic Engineering, Oita University, Japan)

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Santa Fe Institute (SFI, USA)  
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The Robotics Society of Japan (RSJ, Japan)  
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### **HISTORY**

This symposium was founded in 1996 by the support of Science and International Affairs Bureau, Ministry of Education, Culture, Sports Science and Technology, Japanese Government. Since then, this symposium has been held every year at B-Con Plaza, Beppu, Oita, Japan except in Oita, Japan (AROB 5th '00) and in Tokyo, Japan (AROB 6th '01). The eleventh symposium will be held on 23-25 January, 2006, at B-Con Plaza, Beppu, Oita, Japan. This symposium invites you all to discuss development of new technologies concerning Artificial Life and Robotics based on simulation and hardware in the twenty first century.

### **OBJECTIVE**

The objective of this symposium is the development of new technologies for artificial life and robotics which have been recently born in Japan and are expected to be applied in various fields. This symposium will discuss new results in the field of artificial life and robotics.

### **TOPICS**

Artificial brain research  
Artificial intelligence  
Artificial life  
Artificial living  
Artificial mind research  
Bioinformatics chaos  
Brain science

Cognitive science evolutionary computations  
Complexity  
Computer graphics  
DNA computing  
Fuzzy control  
Genetic algorithms  
Human-machine cooperative systems  
Human-welfare robotics  
Innovative computations  
Intelligent control and modeling  
Micromachines  
Micro-robot world cup soccer tournament  
Mobile vehicles  
Molecular biology  
Multi-agent systems  
Nano-biology  
Nano-robotics  
Neural networks  
Neurocomputers  
Neurocomputing technologies and its application for hardware  
Pattern recognition  
Robotics  
Robust virtual engineering  
Virtual reality  
Others

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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 (Springer) and APPLIED MATHEMATICS AND COMPUTATION (North-Holland). All correspondence related to the symposium should be addressed to AROB Secretariat.

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