IS RAB

The Eighteenth International Symposium on
Artificial Life and Robotics

1st Call For Papers

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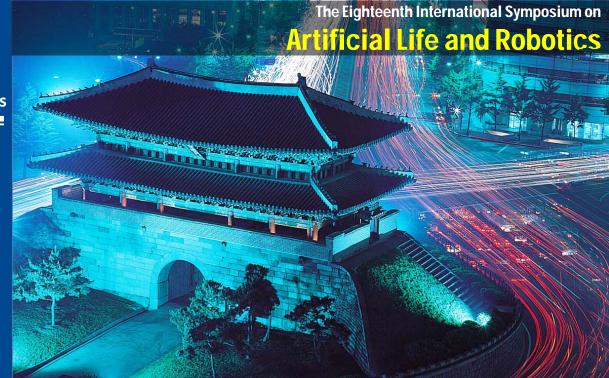Ju-Jang Lee
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AROB 18th '13

January 30 – February 1, 2013
Daejeon Convention Center, Daejeon, Korea

The Eighteenth International Symposium on Artificial Life and Robotics will be held in Daejeon, Korea, January 30 – February 1, 2013. 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 listed in the following topics.

Topics of interest include, but are not limited to

- Artificial brain research
- Artificial living
- Bipedal robot
- Cognitive science
- Control techniques
- Evolutionary computations
- Human-machine cooperative systems
- Intelligent control & modeling
- Medical surgical robot
- Molecular biology
- Nano-robotics
- Pattern recognition
- Renewable energy
- Soccer robot

- Artificial intelligence
- Artificial mind research
- Brain science
- Complexity
- Data mining
- Fuzzy control
- Human-welfare robotics
- Learning
- Micromachines
- Multi-agent systems
- Neurocomputing technologies and its application for hardware
- Resilient infrastructure systems
- Virtual reality

- Artificial life
- Bioinformatics
- Chaos
- Computer graphics
- DNA computing
- Genetic algorithms
- Image processing
- Management of technology
- Mobile vehicles
- Nano-biology
- Neural networks
- Quantum computing
- Robotics
- Visualization

Important Dates

- **September 1, 2012** — Deadline for abstract submissions
- **September 15, 2012** — Notification of acceptance
- **October 31, 2012** — Final camera-ready papers due
- **November 1, 2012** — Deadline for Early Registration

Publication

Accepted papers will be published in the Proceedings of the AROB. Extended versions of the selected papers will be published in the international journal : ARTIFICIAL LIFE AND ROBOTICS and in the special issue on special topics of Artificial Life and Robotics, Applied Mathematics and Computation.

Symposium Site

Daejeon Convention Center

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isarob.org

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

Co-Operated by

The Society of Instrument and Control Engineers (SICE, Japan)
The Robotics Society of Japan (RSJ, Japan)
The Institute of Electrical Engineers of Japan (IEEJ, Japan)
IEEE Japan Council (IEEE Robotics and Automation Society Japan Chapter)

Japan Robot Association (JARA)
Chinese Association for Artificial Intelligence (CAAI, P. R. China)
The Institute of Systems, Control and Information Engineers (ISCIE)
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