



1st Call for Papers

Advisory Committee Chair
Moshe Kam
(Former EEE President)

General Chair
Masanori Sugisaka

Co-General Chairs
Yingmin Jia
Takao Ito
Ju-Jang Lee

Vice General Chairs
John L. Casti
Jangmyung Lee
Henrik Hautop Lund
Luigi Pagliarini
Mohd Rizon
Makoto Sakamoto
Changshui Zhang
Yongguang Zhang

Program Chair
Makoto Sakamoto

Sub Program Chair
Marion Oswald

Conference Site



<http://www.b-conplaza.jp/>

ICAROB Office

Mobile: +81-80-8565-8256
email:
icarob@alife-robotics.co.jp
web:
<http://alife-robotics.co.jp/>



<http://www.japan-robotic.com/e/e4700>



Beppu Sight Seeing Guide

The 2018 International Conference on Artificial Life and Robotics (ICAROB2018)

23rd AROB Anniversary



Usa Shrine (Before BC era three goddesses "Shikitsima-himemikoto, Hasizu-himemikoto, Tagiri-himemikoto descended on the earth of Usa from heaven.) The shrine is called Total Motomiya Hachiman Shrine Usa located in Oita Prefecture.

The 2018 International Conference on Artificial Life and Robotics

January 25 to 28, 2018, B-Con Plaza, Beppu, Oita, JAPAN

The 2018 International Conference on Artificial Life and Robotics (ICAROB2018) will be held at B-Con Plaza, Beppu, Oita, JAPAN, from January 25 to 28, 2018. This Conference will provide new development of modern technologies concerning *Robotics, Networking and Artificial Life* associated with computer simulations, hardware designs, and networking of state-of-the-art technologies to researchers, and to share findings on how advancements in robotics, networking, complexity and artificial life technologies that relate to inter-disciplinary approach to the field such as 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. **Please submit papers to ICAROB2018 Web Site from <http://alife-robotics.co.jp/>.**

Topics of interest include, but are not limited to

- Analysis of randomized algorithms
- Artificial nervous systems for robots
- Artificial living
- Bipedal robot
- Cognitive science
- Evolutionary computations
- Intelligent control
- Medical surgical robot
- Computational Molecular biology
- Nano-robotics
- Neuroscience
- Neuro-computer
- Neuromorphic systems
- Reinforcement learning system & genetic programming
- Software development support method
- System cybernetics
- Foundation of computation and its application
- Unmanned aerial systems technologies
- Unmanned aerial systems designing, controls and navigation
- Artificial sciences
- Artificial mind research
- Brain science and computing
- Artificial intelligence & complexity
- adaptive behavior and metabolism
- Data mining
- Fuzzy control
- Human-welfare robotics
- Micro-machines
- Multi-agent systems
- Networking
- Pattern recognition
- Virtual reality
- Environment navigation and localization
- Facial expression analysis, music recommendation and augmented reality
- Applications in Kansei engineering
- Unmanned aro vehicles
- Intelligence in biological systems
- Agent-based software
- Chaos
- Computer graphics
- DNA computing
- Genetic algorithms
- Image processing
- Management of technology
- Insect-like aro vehicles
- Nano-biology
- Neural circuits
- Unmanned underwater vehicles
- Quantum computing
- Robotics
- Visualization
- Disasters robotics
- Empirical research on network and MOT
- (Others etc.)

Important Dates

- **October 15, 2017** Abstract submission due date
 - **October 15, 2017** OS,GS,PS,IS,TS proposal submission due date
 - **October 20, 2017** Final early bird registration due date
 - **October 25, 2017** Notification of acceptance date
 - **November 10, 2017** Final paper submission due date
- OS: Organized Session, GS: General Session, PS: Poster Session, IS: Invited Session, TS: Tutorial Session

Publication

Accepted papers will be published in the Proceedings of the ICAROB Series that was included in [Scopus](#) and [CPCI-Web of Science](#). Extended versions of the selected papers will be published in the international journal : *Robotics, Networking and Artificial Life* (JRNAL became [ESCI](#) journal) (<http://www.atlantis-press.com/publications/jrnal/>) published by **Atlantis Press**.

Registration Fee

Registration fee ¥55,000 (¥50,000 for early birds) and ¥30,000 for Students (¥25,000 for early birds) :

Organized by

International Steering Committee of International Conference on Artificial Life and Robotics (ICAROB)

Technical co-sponsored by

IEEE Robotics and Automation Society (USA)
IEEE Fukuoka Section (Japan)

Co-Organized by

Chinese Association for Artificial Intelligence (CAAI, P. R. China)

Sponsored by

AROB Secretariat within ALife Robotics

Advisory Committee Chair

Moshe Kam (New Jersey Institute of Technology, Former IEEE President, USA)

General Chair

Masanori Sugisaka (ALife Robotics Co., Ltd., Japan, Open University, UK, University of Malaysia-Peris, Malaysia)

Co- General Chairs

Yingmin Jia (Beihang University, P.R.China)
Takao Ito (Hiroshima University, Japan)
Ju-Jang Lee (KAIST, Korea)

Vice General Chairs

John L. Casti (International Institute for Applied Systems Analysis, Austria)
Jangmyung Lee (Pusan National University, Korea)
Henrik Hautop Lund (Technical University of Denmark, Denmark)
Luigi Pagliarini (Academy of Fine Arts of Macerata, Italy)

Mohd Rizon (National Culture Arts and Heritage Academy, Malaysia)
Makoto Sakamoto (University of Miyazaki, Japan)
Changshui Zhang (Tinghua University, P. R. China)
Yongguang Zhang (Academia Sinica, P. R. China)

Advisory Committee

Adam Grzech (Wroclaw University of Technology, Poland)
Bruce Eisenstein (Drexel University, Former IEEE President, USA)
Fumio Harashima (Former The University of Tokyo, Japan)
Guang-Ren Duan (Harbin Institute of Technology, P. R. China)
Hidenori Kimura (RIKEN, Japan)
Jeffrey Johnson (The Open University, UK)
Jerzy Świątek (Wroclaw University of Technology, Poland)
Joshua M. Epstein (The Johns Hopkins University, USA)
Kai-Tai Song (National Chiao Tung University, Taiwan)
Kazuhiro Terashima (Toyohashi University of Technology, Japan)

Kazuo Kyuma (Mitsubishi Electric Corporation, Japan)
Masayoshi Tomizuka (University of California Berkeley, USA)
Moshe Kam (New Jersey Institute of Technology, Former IEEE President, USA)
Paul Kalata (Drexel University, USA)
Paul Oh (Drexel University, USA)
Robert Fischl (Drexel University, USA)
Steen Rasmussen (University of Southern Denmark, Denmark)
Toshio Fukuda (Meijyo University, Japan)
Zengqi Sun (Tsinghua University, P. R. China)

Program Chair

Makoto Sakamoto (The University of Miyazaki, Japan)

Co-Program Chair

Marion Oswald (The Vienna University of Technology, Austria)

International Organizing Committee

Akira Fukuda (Kyushu University, Japan)
Eiji Hayashi (Kyushu Institute of Technology, Japan)
Evgeni Magid (Innopolis University, Russia)
Hazry Desa (University of Malaysia, Perlis, Malaysia)
Hidehiko Yamamoto (Gifu University, Japan)
Hideyuki Suzuki (The University of Tokyo, Japan)
Hiroki Tamura (The University of Miyazaki, Japan)
Hiroshi Kage (Mitsubishi Electric Corporation, Japan)
Hiroshi Matsuno (Yamaguchi University, Japan)
Jiwu Wang (Beijing Jiaotong University, P. R. China)
Jovana Jovic (CNRS-AIST JRL, Japan, France)
Katsunori Shimohara (Doshisha University, Japan)
Kenichi Tanaka (Meiji University, Japan)
Kenji Hashimoto (Waseda University, Japan)
Kevin Voges (Canterbury University, New Zealand)
Kohei Ohtsu (Tokyo University of Marine Science and Technology, Japan)
Kuo-Hsien Hsia (Far East University, Taiwan)
Kuo-Lan Su (National Yunlin University of Science and Technology, Taiwan)
Kyunggho Park (Director for Micro-System Programs, U.S. ARMY, Japan and USA)
Masahito Yamamoto (Hokkaido University, Japan)
Masao Kubo (National Defense Academy of Japan, Japan)

Masanao Obayashi (Yamaguchi University, Japan)
Masafumi Yamashita (Kyushu University, Japan)
Mehta Rajiv (New Jersey Institute of Technology, USA)
Mohd Rizon (University of Sultan Zainal Abidin, Malaysia)
Peter Sapaty (Ukrainian Academy of Science, Ukraine)
Qu Yanbin (Harbin Institute of Technology, P. R. China)
Seiji Ishikawa (Kyushu Institute of Technology, Japan)
Takashi Kohno (LIMMS/CNRS-IIS, Institute of Industrial Science, The University of Tokyo, Japan)
Takashi Ogata (Iwate Prefectural University)
Teruhisa Hochin (Kyoto Prefectural University, Japan)
Tetsuro Hattori (Kagawa University, Japan)
Thi Thi Zin (University of Miyazaki, Japan)
Thomas S. Ray (University of Oklahoma, USA)
Toru Yamamoto (Hiroshima University, Japan)
Victor Berdonosov (Komsomolsk-on-Amur State University of Technology, Russia)
Yasunari Yoshitomi (Kyoto Prefectural University, Japan)
Yo Horikawa (Kagawa University, Japan)
Yoshifumi Morita (Nagoya Institute of Technology, Japan)
Yoshiro Imai (Kagawa University, Japan)
Yuichi Tanji (Kagawa University, Japan)

International Program Committee

Akira Nakamura (AIST, Japan)
Ali Selamat (University of Technology of Malaysia (UTM), Malaysia)
Dongmei Ai (University of Science and Technology Beijing , P. R. China)
Endra Joelianto (Bandung Institute of Technology, Indonesia)
Fengzhi Dai (Tianjin University of Science & Technology, P. R. China)
Haruna Matsushita (Kagawa University)
Hidetsugu Suto (Muran Institute of Technology, Japan)
Hiroyuki Iizuka (Osaka University, Japan)
Huailin Zhao (Shanghai Institute of Technology, P. R. China)
Hussein Abbass (University of New South Wales, and ADFA, Australia)
Istvan Harmati (Budapest Institute of Technology and Economics,)
Ivan Tanev (Doshisha University, Japan)
Jiandong Zhao (Beijing Jiaotong University, P. R. China)
Jinglu Hu (Waseda University, Japan)
Joono Cheong (Korea University, Korea)
Kathryn Elizabeth Merrick (University of New South Wales and ADFA, Australia)
Ken-ichi Tanaka (Meiji University, Japan)
Kunikazu Kobayashi (Aichi Prefectural University, Japan)
Manabu Yamada (Nagoya Institute of Technology, Japan)
Masahide Ito (Aichi Prefectural University, Japan)
Masahiro Yokomichi (The University of Miyazaki, Japan)
Malachy Eaton (University of Limerick, Ireland)
Masayoshi Kano (Chukyo University, Japan)
Seong-Ik Han (Pusan National University, Korea)

Masayoshi Tabuse (Kyoto Prefectural University, Japan)
Masaomi Hatakeyama (University of Zurich, Switzerland)
Norrima Mokhtar (University of Malaya, Malaysia)
Noritaka Sato (Nagoya Institute of Technology, Japan)
Palakorn Tantrakool (King Mongkut's Institute of Technology Thonburi, Thailand)
Satoshi Ikeda (The University of Miyazaki, Japan)
Sanjay S. Joshi (College of Engineering, University of California, USA)
Shingo Mabuchi (Yamaguchi University, Japan)
Shyi-Ming Chen (National Taichung University of Education, Taiwan)
Takashi Kuremoto (Yamaguchi University, Japan)
Takayoshi Yamada (Gifu University, Japan)
Taishiro Kishimoto (Keio University, Japan)
Tao Zhang (Tsinghua University, P. R. China)
Takashi Iwamoto (Mitsubishi Electric Corporation, Advanced Technology R&D Center, Japan)
Tetsuro Katayama (The University of Miyazaki, Japan)
Thunyaseth Sethaput (Thammasat University, Thailand)
Toshinori Nawata (Kumamoto National College of Technology, Japan)
Tsunehiro Yoshinaga (Tokuyama National College of Technology, Japan)
Weicom Zhang (University of Science and Technology Beijing, P. R. China)
Yuanyuan Shang (Capital Normal University, P. R. China)
Yueyue Fan (University of California-Davis, USA)
Young Im Cho (The University of Suwon, Korea)

Local Arrangement Committee

Makoto Sakamoto (The University of Miyazaki, Japan)
Tetsuro Katayama (The University of Miyazaki, Japan)
Satoshi Ikeda (The University of Miyazaki, Japan)