The International Conference on Artificial Life and Robotics 2027 (ICAROB2027)

32nd AROB Anniversary

Call for Papers

Honorary General Chair
Masanori Sugisaka

General Chair
Takao Ito

Co-General Chairs
Yingmin Jia
Ju-Jang Lee

Advisory Committee Chairs
Eiji Hayashi
Jeffrey Johnson
Kazuo Ishii
Kensuke Harada
Takashi Kohno

Vice General Chairs
Ang, Chun Kit
John L. Casti
Katia Passerini
Henrik Hautop Lund
Luigi Pagliarini
Mohd Rizon
Norrima Mokhtar

Program Chair
Makoto Sakamoto

Co-Program Chair
Marion Oswald

J:COM HorutoHall, Oita, January 7 to 10, 2027

The International Conference on Artificial Life and Robotics 2027 (ICAROB2027) will be held at **J:COM HorutoHall, Oita, Japan, from January 7-10, 2027.** The conference will also offer remote synchronous participation via Zoom video conferencing software. This Conference will provide new development of modern research associated with computer simulations, hardware designs, and networking of state-of-the-art technologies to participants, and share findings of advancements in robotics, networking, complexity systems and artificial life technologies including artificial intelligence, virtual reality, and computer science. The topics of new research and applications in various fields listed as below.

Topics of interest include, but not limited to

- Analysis of randomized algorithms
- Artificial nervous systems for robots
- Artificial living
- Bipedal robot
- Bio-inspired immune system
- Cognitive science
- Evolutionary computations
- Intelligent control
- Medical surgical robot
- Computational Molecular biology
- Nanorobotics
- Neuroscience
- Neurocomputer
- Neuromorphic systems
- Reinforcement learning system & genetic programing
- Software development support method
- System cybernetics
- Foundation of computation and its application
- Unmanned aerial systems technologies
- 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 aero vehicles
- Unmanned aerial systems designing, controls and navigation
- Intelligence in biological systems
- Agent-based software
- Chaos
- Computer graphics
- DNA computing
- Genetic algorithms
- Image processing
- Management of technology
- Insect-like aero vehicles
- Nano-biology
- Neural circuits
- Unmanned underwater vehicles
- Quantum computing
- Robotics
- Visualization
- Disasters robotics
- Empirical research on network and MOT
- Others

Important Dates

- **Deadline for PS, IS, OS, GS, Poster S, TS abstract proposal submission: November 9, 2025**
- **Deadline for Final early bird registration: November 23, 2026**
- **Notification of acceptance/rejection: November 20, 2026**
- **Deadline for final paper submission: December 7, 2026 (Warning: We don't accept papers after deadline!)**

Notice: OS (Organized Session), GS (General Session), PS (Poster Session), IS (Invited Session), TS (Tutorial Session)

Publication

All conference submissions will undergo double-blind peer review by three members of the international program committee. All submissions must strictly follow the submission guidelines available on the conference webpage. **Accepted papers will be published in the Proceedings of the ICAROB Series indexed by Scopus and CPCI-Web of Science. Extended versions of the selected papers will be published in the international journals of *Robotics, Networking and Artificial Life* (JRNAL) *indexed by* ESCI & Scopus published by The Society of Artificial Life and Robotics and *Advances in Artificial Life Robotics* (JAALR to be expected indexed by Scopus) published by The Society of Artificial Life and Robotics. Please submit papers to ICAROB Office** (Email address: icarob@alife-robotics.co.jp, Website: https://alife-robotics.co.jp/).

Conference Site
(J:COM HorutoHall, Oita, Japan)

J:COM HorutoHall

ICAROB Office
Mobile: +81-80-8565-8256
email: icarob@alife-robotics.co.jp
web: https://alife-robotics.co.jp/
or https://alife-robotics.org/

IEEE Advancing Technology for Humanity

Fukuoka Section

CCAI

The Society of Artificial Life and Robotics

https://arobcorp.org/eng/

The banquet fee is FREE because The Society of Artificial Life and Robotics will defray the expenses.
Welcome to the Banquet!

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 Fukuoka Section (Japan)

Co-Organized by
Chinese Association for Artificial Intelligence (CAAI, P. R. China)

Sponsored by
The Society of Artificial Life and Robotics

Honorary General Chair
Masanori Sugisaka (ALife Robotics Co., Ltd., Japan)

General Chair
Takao Ito (Hiroshima University, Japan)

Co- General Chairs
Yingmin Jia (Beihang University, P. R. China)
Ju-Jang Lee (KAIST, Korea)

Advisory Committee Chairs
Eiji Hayashi (Kyushu Institute of Technology, Japan)
Jeffrey Johnson (The Open University, UK)
Kazuo Ishii (Kyushu Institute of Technology, Japan)
Katia Passerini (Seton Hall University, USA)
Kensuke Harada (Osaka University, Japan)
Takashi Kohno (University of Tokyo, Japan)

Vice General Chairs
Ang, Chun Kit (University of UCSI, Malaysia)
John L. Casti (International Institute for Applied Systems Analysis, Austria)
(The company X-Event Dynamics - (Co-founder), Austria)
Katia Passerini ((Seton Hall University, USA)
Henrik Hautop Lund (Technical University of Denmark, Denmark)
Luigi Pagliarini (Academy of Fine Arts of Macerata, Italy)
Mohd Rizon (University of UCSI, Malaysia)
Norrima Mokhtar (University of Malaya, Malaysia)

Advisory Committee
Bruce Eisenstein (Drexel University, Former IEEE President, USA)
Jeffrey Johnson (The Open University, UK)
Joshua M. Epstein (The Johns Hopkins University, USA)
Ken-ichi Tanaka (Executive Fellow, Mitsubishi Electric Corporation, Japan)
Masato Nakagawa (Executive Fellow, DENSO CORPORATION, Japan)
Moshe Kam (New Jersey Institute of Technology, Former IEEE President, USA)
Paul Kalata (Drexel University, USA)
Peter Herczfeld (Drexel University, USA)
Ren C. Luo (National Taiwan University, Taiwan)

Program Chair
Makoto Sakamoto (The University of Miyazaki, Japan)

Co-Program Chair
Marion Oswald (The Vienna University of Technology, Austria)

International Organizing Committee
Akira Nakamura (AIST, Japan)
Akinori Abe (Chiba University, Japan)
Andrew Gadsden (University of Guelph, Canada)
Caoli Wang (University of Shanghai for Science and Technology, P. R. China)
Chan Gook Park (Seoul National University, Korea)
Eiji Hayashi (Kyushu Institute of Technology, Japan)
Evgeni Magid (Kazan Federal University, Russia)
Fengzhi Dai ((Tianjin University of Science and Technology, P.R. China)
Fuzhong Wang (Henan Polytechnic University, P. R. China)
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)
Huailin Zhao (Shanghai Institute of technology, P. R. China)
Jiwu Wang (Beijing Jiaotong University, P. R. China)
Jovana Jovic (CNRS-AIST JRL, Japan, France)
Junping Du (Beijing University of Posts and Telecommunications, P. R. China)
Katsunori Shimohara (Doshisha University, Japan)
Kazuo Ishii (Kyushu Institute of Technology, Japan)
Kunikazu Kobayashi (Aichi Prefectural University, Japan)
Kuo-Hsien Hsia (National Yunlin University of Science and Technology, Taiwan)
Ryusuke Kawamura (The University of Miyazaki, Japan)
Masao Kubo (National Defense Academy of Japan, Japan)
Maxim Sokolov (Innopolis University, Russia)
Mehta Rajiv (New Jersey Institute of Technology, USA)
Minsoo Kim (Pusan National University, Korea)
Peter Sapaty (Ukrainian Academy of Science, Ukraine)
Pierre Parrend (University of Strasbourg, France)
Qiang Cai (Beijing Technology and Business University, P. R. China)
Qu Yanbin (Harbin Institute of Technology, P. R. China)
Saori Iwanaga (Japan Coast Guard Academy)
Shin Jisun (Pusan National University, Korea)
Singo Mabu (Yamaguchi University, Japan)
Takashi Kohno (The University of Tokyo, Japan)
Takashi Ogata (Iwate Prefectural University)
Teruhisa Hochin (Kyoto Prefectural University, Japan)
Tetsuro Hattori (Kagawa University, 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)
Yi Chai (Chongqing University, P. R. China)
Yoshifumi Morita (Nagoya Institute of Technology, Japan)
Yoshiro Imai (Kagawa University, Japan)
Yuji Shinano (Zuse Institute Berlin, Germany)
Zengqiang Chen (Nankai University, P. R. China)

International Program Committee
Abdul Rahman bin Dullah (Universiti Teknikal Malaysia Melaka, Malaysia)
Akinori Abe (Chiba University, Japan)
Akira Utsumi (The University of Electro-Communications, Japan)
Akihiro Yamaguchi (Fukuoka Institute of Technology, Japan)
Akihito Kanai (Hosei University, Japan)
Ali Selamat (University of Technology of Malaysia, Malaysia)
Aminurafiuddin bin Zulkifli (Multimedia University, Malaysia)
Amornphun Phunopas (King Mongkut's University of Technology, North Bankok, Thailand)
Andre Rosendo (ShanghaiTech University, P. R. China)
Anne Jeannin-Girardon (University of Strasbourg, France)
Anton Shiriaev (Nowegian University of Science and Technology, Norway)
Artur Sagitov (Kazan Federal University, Russia)
Ashi Gautam (The University of Tokyo, Japan)
Atsuya Tange (The University of Tokyo, Japan)
Ayumu Tominaga (Kyushu Institute of Technology, Japan)
Bin Zhang (Beijing University of Posts and Telecommunications, P. R. China)
Cecilia Zanni-Merk (INSA-Rouen, France)
Chang-Hua Lien (National Kaohsiung University of Science and Technology, Taiwan)
Chaoli Wang (University of Shanghai for Science and Technology, P. R. China)
Cheng-Shion Shieh (Far East University, Taiwan)
Chenyang Li (Beijing Jiaotong University, P. R. China)
Chia-Nan Ko (Nan kai University of Technology, Taiwan)
Chu-Fen Li (National Formosa University, Taiwan)
Chung-Wen Hung (National Yunlin University of Science & Technology, Taiwan)
Congdao Han (Shanghai Institute of Technology, P. R. China)
Cui Zhang (Beihang University, P. R. China)
Cynthia Matuszek (University of Maryland, USA)
Dengchuan Cai (National Yunlin University of Science & Technology)
Donglian Qi (Zhejiang University, P. R. China)
Dongmei Ai (University of Science and Technology Beijing, P. R. China)
Duangiai Jitkongchuen (Dhurakij Pundit University, Thailand)
Dunwei Gong (China University of Mining and Technology, P. R. China)
Moeko Tominaga (Kyushu Institute of Technology, Japan)
Mohammad Al-Shabi (University of Sharjah, United Arab Emirates)
Mohammad Biglarbegian (University of Guelph, Canada)
Mou Chen (Nanjing University of Aeronautics and Astronautics, P. R. China)
Nan Xiao (Northeastern University at Qinhuangdao, P. R. China)
Naoki Toyoshima (The University of Tokyo, Japan)
Nicolas Monmarché (university of Tours, France)
Noriaki Kuwahara (Kyoto Prefectural University, Japan)
Noritaka Sato (Nagoya Institute of Technology, Japan)
Norrima Mokhtar (University of Malaya, Malaysia)
Palakorn Tantrakool (King Mongkut's Institute of Technology, North Bangkok, Thailand)
Ping Wang (North China Electric Power University, P. R. China)
Pierre David (University of Strasbourg, France)
Pierre Willaume (University of Strasbourg, France)
Ricardo Q. Figueroa (National Polytechnic Institute, Mexico)
Rizauddin bin Ramli (Universiti Kebangsaan Malaysia, Malaysia)
Roman Lavrenov (Kazan Federal University, Russia)
Ruztamreen bin Jenal (University Teknikal Malaysia Melaka, Malaysia)
Ryohei Anshi (Kyushu Institute of Technology, Japan)
R.K.P.S. Ranaweera (University of Moratuwa, Sri Lanka)
R.P.C. Janaka Rajapakse (Tainan National University of the Arts, Taiwan)
Satoshi Ikeda (The University of Miyazaki, Japan)
Seong-Ik Han (Pusan National University, Korea)
Shahriman Abu Bakar (University Malaysia Perlis, Malaysia)
Shanbi Wei (Chongqing University, P. R. China)
Shifang Xu (Shanghai Institute of Technology, P. R. China)
Shihao Sun (Beihang University, P. R. China)
Shin-ichi Asakawa (Tokyo Woman's Christian University, Japan)
Shing-Tai Pan (Kaohsiung University, Taiwan)
Shin Wakitani (Hiroshima University, Japan)
Shinichi Imai (Tokyo Gakugei University, Japan)
Shoichiro Fujisawa (Tokushima Bunri University, Japan)

Endra Joelianto (Bandung Institute of Technology, Indonesia)
Enrico Di Mari (Kyushu Institute of Technology, Japan)
Fabio Guigou (University of Strasbourg, France)
Fei Hao (Beihang University, P. R. China)
Fenghua Shan (Northwestern Polytechnical University, P.R. China)
Firas Basim Ismail Alnaimi (University Tenaga National, Malaysia)
Fuzhong Wang (Henan Polytechnic University, P. R. China)
Haibo Li (Royal Institute of Technology, Sweden)
Haisheng Li (Beijing Technology and Business University, P. R. China)
Haruhisa Okuda (Mitsubishi Electric Corporation, Japan)
Haruna Matsushita (Kagawa University, Japan)
Heeje Kim (Pusan National University, Korea)
Hidetsugu Suto (Muroran Institute of Technology, Japan)
Hideyuki Tanaka (Hiroshima University, Japan)
Hiroki Fukushima (Kyusyu Women's University, Japan)
Hiroyuki Iizuka (Osaka University, Japan)
Hong Niu (Tianjin University of Science and Technology, P.R. China)
Hongbo Li (Tsinghua University, P. R. China)
Hongji Ma (Shandong University of Science and Technology, P. R. China)
Hongjiu Yang (Yanshan University, P. R. China)
Hongpeng Yin (Chongqing University, P. R. China)
Hsien-Huang Wu (National Yunlin University of Science and Technology, Taiwan)
Huaping Liu (Tsinghua University, P. R. China)
Hussein Abbass (University of New South Wales, and ADFA, Australia)
I-Hsien Liu (National Cheng Kung University, Taiwan)
Ilya Afanasyev (Innopolis University, Russia)
Istvan Harmati (Budapest Institute of Technology and Economics, Hungary)
Ivan Tanev (Doshisha University, Japan)
Jiandong Zhao (Beijing Jiaotong University, P. R. China)
Jiao Jia (Beihang University, P. R. China)
Jingchuan Wang (Shanghai Jiao Tong University, P. R. China)
JJ Merelo (University of Granada, Spain)
Joono Cheong (Korea University, Korea)
Julio Navarro Lara (University of Strasbourg, France)
Jun Kobayashi (Kyushu Institute of Technology, Japan)
Jung-Shian Li (National Cheng Kung University, Taiwan)
Junhg-Perng Su (National Dong Hwa University, Taiwan)
Jumpei Ono (Digital Arts Sendai, Japan)
Junping Du (Beijing University of Posts and Telecommunications, P. R. China)
Kaoru Ohe (The University of Miyazaki, Japan)
Kazuo Kawada (Hiroshima University, Japan)
Kei Sahara (Doshisha University Japan)
Keiji Kamei (Nishinippon Institute of Technology, Japan)
Kenji Aoki (The University of Miyazaki, Japan)
Keisuke Watanabe (Tokai University, Japan)
Keita Honda (Gifu university, Japan)
Ke Zhang (Chongqing University, P. R. China)
Ken-ichi Tanaka (Meiji University, Japan)
Kensuke Ogata (Osaka City University Japan)
Khairul Salleh bin Mohamed Sahari (University Tenaga National, Malaysia)
Khoyratee Farad (The University of Tokyo, Japan)
Kouichi Takeuchi (Okayama University, Japan)
Konstantin Yakovlev (Russian Academy of Sciences, Higher School of Economics, Russia)
Kui Xiang (Wuhan University of Technology, P. R. China)
Leonid Freidovich (Umea University, Sweden)
Levi Timothéeé (The University of Tokyo, Japan)
Liming Chen (Beihang University, P. R. China)
Lin Li (University of Shanghai for Science and Technology, P. R. China)
Lin Zhao (Qingdao University, P. R. China)
Manabu Yamada (Nagoya Institute of Technology, Japan)
Masahide Ito (Aichi Prefectural University, Japan)
Masahiro Ushio (Kyushu Institute of Technology, Japan)
Masahiro Yokomichi (The University of Miyazaki, Japan)
Masanori Takahashi (Tokai University, Japan)
Masayoshi Kano (Chukyou University, Japan)
Masayoshi Tabuse (Kyoto Prefectural University, Japan)
Masaomi Hatakeyama (University of Zurich, Switzerland)
Mastaneh Mokayef (Central Connecticut State University, USA)
Max Talanov (Kazan Federal University, Russia)
Meng Duan (Beihang University, P. R. China)
Mingguo Zhao (Tsinghua University, P. R. China)
Shumin Fei (Southeast University, P. R. China)
Shyi-Ming Chen (National Taichung University of Education, Taiwan)
Stephany Mai Nishikawa (The University of Tokyo, Japan)
Stephen Wilkerson (York College of Pennsylvania, USA)
Takashi Kuremoto (Yamaguchi University, Japan)
Takayoshi Yamada (Gifu University, Japan)
Takuya Fuginaga (Kyushu Institute of Technology, Japan)
Takuya Nanami (The University of Tokyo, Japan)
Taishiro Kishimoto (Keio University, Japan)
Taisuke Akimoto (Kyushu Institute of Technology, Japan)
Tarik bin Abd Latef (University Malaya, Malaysia)
Taro Shibanoki (Ibaraki University, Japan)
Taro Takagi (National Institute of Technology, Maizuru College, Japan)
Teruhisa Hochin (Kyoto Prefectural University, Japan)
Tetsuro Katayama (The University of Miyazaki, Japan)
Thomas Noel (University of Strasbourg, France)
Thunyaseth Sethaput (Thammasat University, Thailand)
Tianping Zhang (Yangzhou University, P. R. China)
Tomohiko Takagi (Kagawa University, Japan)
Tomohiro Henmi (National Institute of Technology, Kagawa Collage, Japan)
Toshihiro Inukai (DENSO Wave Incorporated, Japan)
Toshinori Nawata (Kumamoto National College of Technology, Japan)
Tsunehiro Yoshinaga (Tokuyama National College of Technology, Japan)
Tsutomu Ito (Ube National College of Technology, Japan)
Ussath Martin (The University of Potsdam, Germany)
Wan Khairunizam Wan Ahmad (University Malaysia Perlis, Malaysia)
Wang Jie (Pusan National University, South Korea)
Wanjun Yu (Shanghai Institute of Technology, P. R. China)
Weicun Zhang (University of Science and Technology Beijing, P. R. China)
Wei-Lung Mao (National Yunlin University of Science and Technology, Taiwan)
Weiwei Yu (Northwestern Polytechnical University, P.R. China)
Weixin Zeng (Beijing Jiaotong University, P.R. China)
Wenhao Zheng (Beihang University, P. R. China)
Wenlin Li (Beihang University, P. R. China)
Wisanu Jiviriya (King Mongkut's University of Technology North Bangkok, Thailand)
Xiaocan Wang (Northwestern Polytechnical University, P. R. China)
Xiaofeng Su (Beijing Institute of Astronautical Systems Engineering, P. R. China)
Xiaoyan Chen (Tianjin University of Science and Technology, P. R. China)
Xiaoyan Fu (Capital Normal University, P. R. China)
Xuemei Ren (Beijing Institute of Technology, P. R. China)
Xuhui Lu (Beihang University, P. R. China)
Yafan Liu (Beijing Jiaotong University, P. R. China)
Yan Cui (Shanxi Normal University, P. R. China)
Yasunori Takemura (Nishinippon Institute of Technology, Japan)
Yeong-Jeu Sun (I-Shou University, Taiwan)
Yo Horikawa (Kagawa University, Japan)
Yongqiang Qi (China University of Mining and Technology, P. R. China)
Yoshihiro Kita (Tokyo Institute of Technology, Japan)
Yoshihiro Ohnishi (Ehime University, Japan)
Youji Kawamura (Kindai University, Japan)
Yu-an Zhang (Qinghai University, P. R. China)
Yuanlin Wang (Northwestern Polytechnical University, P. R. China)
Yue Lin (Beijing Institute of Control Engineering, P.R. China)
Yueqian Liang (China Academy of Electronics and Information Technology, P. R. China)
Yuji Minami (National Institute of Technology, Ube College, Japan)
Yujie Yan (Tianjin University of Science and Technology, P. R. China)
Yuki Hayashi (Chiba University, Japan)
Yunxiang Liu (Shanghai Institute of Technology, P. R. China)
Yunzhong Song (Henan Polytechnic University, P. R. China)
Yuxing Ouyang (Tianjin University of Science and Technology, P. R. China)
Yuya Nishida (Kyushu Institute of Technology, Japan)
Zacharie Mbaitiga (National Institute of Technology, Okinawa College, Japan)
Zakri bin Ghazali (Universiti Malaysia Pahang, Malaysia)
Zengqiang Chen (Nankai University, P. R. China)
Zhao Peng (Huazhong University of Science and Technology, P. R. China)
Zhengquan Yang (Civil Aviation University of China, P. R. China)
ZhiLi Song (Shanghai Institute of Technology, P. R. China)
Zhongxin Liu (Nankai University, P. R. China)
Zuradzman bin Mohamad Razlan (University Malaysia Perlis, Malaysia)

Local Arrangement Committee

Makoto Sakamoto (The University of Miyazaki, Japan)
Masanori Sugisaka (ALife Robotics Corporation Ltd., Japan)
Takao Ito (Hiroshima University, Japan)