

2020 International Conference on Pervasive AI (ICPAI 2020)

<https://icpai2020.github.io/>

Dates: Dec. 3-5, 2020

Location: Howard Civil Service International House, Taipei, Taiwan

[ICPAI 2020 will be held jointly with TAAI 2020. See <https://taaiicpai2020.github.io/>]

Conference Scope

The International Conference on Pervasive Artificial Intelligence (ICPAI) is intended to serve as a cross-discipline and cross-domain annual meeting to promote the AI applications in various fields. This conference provides an excellent platform for academic researchers and industrial domain experts to present, discuss, and share their most recent findings in theoretical, technological, and application-oriented findings in all aspects of AI developments and applications. The subjects of interest include, but are not limited to, medical diagnosis and prognosis, manufacturing, communications, robotics, smart city, urban mobility, social networks, business intelligence, humanities, law, social sciences, and human-machine co-evolving. It is not only a platform for AI knowledge exchange and sharing, but also a window for researchers and application engineers to continuously apply pervasive AI technologies on human society.

Year 2020 is the inauguration of ICPAI, initiated by Pervasive Artificial Intelligence Research (PAIR) labs and lots of AI professionals around the Taiwanese research community, with cooperation from Japan, China and Singapore experts. It is open to international participants, including researchers, students, and industry practitioners, in all domains who are interested in applied AI technologies.

Topics

The conference will cover a wide range of AI application research topics, including but not limited to, the followings:

- AI and humanities, philosophy, law, and social impacts
- AI for communications and networks
- AI for cybersecurity and deep fake
- AI for health care and medical applications
- AI for precision sports
- Fintech and business intelligence
- Intelligent Human-Computer Interaction
- Lessons from industry deployments of AI.
- Robotics and autonomous driving

- Smart agriculture
- Smart architecture and intelligent buildings
- Smart city and intelligent transportation systems
- Smart energy
- Smart manufacturing

Important Dates

Paper Submission: August 31, 2020

Notification: October 12, 2020

Camera-ready and Registration: October 19, 2020

*All deadlines are 11:59pm Pacific Standard Time (PST)

Paper Submission

- Papers for ICPAI 2020 have to be written and presented in English. The page limit is 8 pages in the IEEE conference format.
- Industry track focuses on papers that address practical and applied research challenges or implementations of AI in the industry.
- Special sessions are welcome and interested organizers can submit their proposals (including session name, organizer names, affiliation and mails, a brief description of the session) to program chairs or invited session chairs.
- Please prepare papers in PDF format according to the specification detailed on the conference webpage.
- ICPAI 2020 accepts online submission only. Please submit your paper via the link in the paper submission page of the conference website: <https://icpai2020.github.io/>

Organizing Committee

Honorary Chairs

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Track Chairs

Track 1. AI and humanities, philosophy, law, and social impacts

Chair: Ming-Jen Lin, National Taiwan University

Track 2. AI for communications and networks

Chair: Li-Chun Wang, National Chiao Tung University

Track 3. AI for cybersecurity and deep fake

Chair: Pin-Yu Chen, IBM Thomas J. Watson Research Center, USA

Chair: Hung-Min Sun, National Tsing Hua University

Track 4. AI for health care and medical applications

Chair: Li-Chen Fu, National Taiwan University; MOST Joint Research Center for AI Technology and All Vista Healthcare

Track 5. AI for precision sports

Chair: Chih-Wei Yi, National Chiao Tung University

Track 6. Fintech and business intelligence

Chair: Tian Shyr Dai, National Chiao Tung University

Track 7. Intelligent Human-Computer Interaction

Chair: Liwei Chan, National Chiao Tung University

Track 8. Lessons from industry deployments of AI

Chair: Wade Chou, Artificial Intelligence for Intelligent Manufacturing Systems Research Center

Track 9. Robotics and autonomous driving

Chair: Chung-Hsien Kuo, National Taiwan University of Science and Technology

Track 10. Smart agriculture

Chair: Ming-Der Yang, National Chung Hsing University

Track 11. Smart architecture and intelligent buildings

Chair: June-Hao Hou, National Chiao Tung University

Track 12. Smart city and intelligent transportation systems

Chair: Jiun-In Guo, National Chiao Tung University

Track 13. Smart energy

Chair: Kuo-Lung Lian, National Taiwan University of Science and Technology

Track 14. Smart manufacturing

Chair: Tien-Fu Chen, National Tsing Hua University