

# Call for Papers

<https://icpai2020.github.io>

# ICPAI 2020

## 2020 International Conference on Pervasive AI



**Dec. 3-5, 2020**



**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

**Yu-Chee Tseng**, National Chiao Tung University, Taiwan  
**Yennun Huang**, Academia Sinica, Taiwan

### General Chairs

**Vincent S. Tseng**, National Chiao Tung University, Taiwan  
**Gary G. Yen**, Oklahoma State University, USA  
**Zhi-Hua Zhou**, Nanjing University, China

### TPC Chairs

**Yuh-Jye Lee**, Academia Sinica, Taiwan  
**Hsing-Kuo Kenneth Pao**, National Taiwan University of Science and Technology, Taiwan  
**Fang-Jing Wu**, TU Dortmund University, Germany.

### Proceedings Chair

**Jiun-Long Huang**, National Chiao Tung University, Taiwan  
**Philippe Fournier-Viger**, Harbin Institute of Technology, China

### Publicity Chair

**Chun-Hao Chen**, National Taipei University of Technology, Taiwan  
**Yusuke Nojima**, Osaka Prefecture University, Japan  
**Jerry Chun-Wei Lin**, Western Norway University of Applied Sciences, Norway

### Local Chair

**Po-Chi Hu**, PAIR Labs, National Chiao Tung University, Taiwan  
**Meng-Shiuan Pan**, National Taipei University of Technology

### Industry Chair

**Wei-Chao Chen**, Inventec Corporation, Taiwan  
**Wade Chou**, Artificial Intelligence for Intelligent Manufacturing Systems Research Center

### Web Chair

**Jen-Jee Chen**, National Chiao Tung University, Taiwan

### 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