

2024 the 10th International Conference on Communication and Information Processing

Lingshui, Hainan, China / November 14-17, 2024

Track 3

Intelligent Communication and Computation

With the widespread application of smart terminals and the rapid development of artificial intelligence technologies, intelligent communication and computing-related technologies have garnered extensive attention from both industry and academia. On one hand, communication technologies are evolving towards increased intelligence, where the key directions include: the use of digital twin networks providing fundamental theories and methods for network planning, optimization, and intelligent management; and the deployment of deep networks and their large models offering new technical routes for communication technology research, such as extensive studies on deep-network-based channel estimation, antenna beamforming, resource allocation, and operation maintenance. On the other hand, the development of mobile edge computing and computing force network technologies has led to a shift from the fusion of communication and computing to their integration. Simultaneously, the computing requirements in networks are transitioning from general computing to intelligent computing, necessitating in-depth research into corresponding communication network architectures, transmission technologies, and network management techniques. In summary, the intelligentization of communication technologies and the integration of communication and computing are crucial research topics in the field of communications. This session calls for the latest theoretical research, engineering implementations, and standardization progress related to intelligent communication and computing technologies.

the topics are as follows:

- Digital Twin Network for Simulation and Intelligent Practices
- Task Oriented Mobile Edge Computing
- Integrated Communication Sensoring and Computing
- Radio Map Based intelligent Cellular-connected UAV
- Semantic Communication for Intelligent Computing
- AI Based Wireless Networking, Management and Resource Allocation
- Other Intelligent Communication and Computation related studies

Special Session Organizer(s):



Tiankui Zhang
Beijing University of Posts and Telecommunications



Pei Zhao
China Mobile Group Design institute Co.,Ltd
China Mobile R&D Center for Network Planning and Optimization



Dingcheng Yang
Nanchang University



Yu Xu
Nanchang University

Submissions

Submit method: <http://iccup.org/submission.html>

Submit full paper/abstract via online system: <https://www.zmeeting.org/submission/iccup2024>

Publication

ICCIP 2024 is to publish latest & high-quality research works on communication and information processing in theoretical and practical aspects. Submitted paper will be peer reviewed by conference committees. The accepted paper will be included into ICCIP 2024 Conference Proceedings, which will be archived in the ACM Digital Library, and indexed by Ei Compendex and Scopus

Contact us

Conference Secretary: Ms. Robin Luo

Phone: +86-182-2760-9313

Email: iccup_iccup@young.ac.cn

please scan the QR Code to add conference secretary on We-chat as "ICCIP 2024"



Association for
Computing Machinery



SPONSORED BY



北京邮电大学

BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS