

Special Issue

Multimodal Intelligent Perception, Semantic Communications, Data Analytics and Privacy Preservation for AIoT Systems

Message from the Guest Editors

The focus of this collection is to explore how AIoT systems can move beyond conventional data acquisition and bit-level transmission, toward intelligent, semantic-aware, and privacy-preserving perception and communication. It welcomes original research and review articles on multimodal sensing and fusion, intelligent perception under complex environments, task-oriented and semantic communications, edge-cloud collaborative intelligence, distributed and federated learning, trustworthy data analytics, privacy-preserving machine learning, secure multimodal representation, and resource-efficient AIoT deployment. The scope also covers application-driven studies in intelligent transportation, Internet of Vehicles, smart healthcare, industrial IoT, smart cities, autonomous systems, human-machine interaction, and connected sensing networks. Particular attention will be given to works that jointly consider perception accuracy, communication efficiency, semantic fidelity, data utility, privacy leakage, security robustness, and real-time deployment constraints.

Guest Editors

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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