Special Issue

Distributed Computing Related to Sensor Networks

Message from the Guest Editors

Multi-agent systems (MAS) are new and emerging systems that converge many areas, from nature science to practical engineering. As we know, MAS consist of many individual agents that contain sensors, computers, and actuators interconnected by communication networks. In many practical cases, distributed computing based on local sensing and communication between neighbor agents is required. Thus, MAS with distributed computing are engineered systems that integrate sensing computation, communication, and control. Because of the limitations of information and capacity, distributed computing leads to new scientific and technical challenges. Moreover, important topics such as distributed estimation, learning and optimization, game and security, and control should be paid more attention to in order to achieve successful application requirements.

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Deadline for manuscript submissions

closed (25 November 2025)

Sensors

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CiteScore 8.2
Indexed in PubMed**

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