



Recent Trends and Applications of Artificial Intelligence

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Message from the Guest Editors

In recent years, machine learning (ML) and artificial intelligence (AI) have profoundly impacted various fields, such as cybersecurity, big data analytics, digital twins, internet of things (IoT), image processing, cloud computing, agriculture, and industry 4.0. In particular, AI and ML techniques have achieved rapid technological improvement by overcoming various problems that traditional solutions were not able to address. However, the current AI and ML models have significant limits and difficulties, restricting their use to handling specific problems in limited areas. AI and ML solutions of the next generation will presumably eliminate the shortcomings of the current generation. Researchers and practitioners are working on a variety of areas to realize next-gen AI, including improved explainability, trust, and reliability; new AI paradigms, such as federated learning, bio-inspired AI models, neuro-symbolic AI, and quantum AI; specialized AI hardware, software, and data models; enhanced AI-human collaboration (collaborative intelligence); and efforts to move closer to artificial general intelligence (AGI).





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Message from the Editor-in-Chief

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