Special Issue

Machine Learning and Evolutionary Computation in the Age of Data Privacy

Message from the Guest Editor

This Special Issue will focus on key approaches such as federated learning, differential privacy, homomorphic encryption, and secure multi-party computation. The Issue will investigate how these methods integrate with evolutionary algorithms, neural networks, and other computational intelligence paradigms. The scope encompasses theoretical foundations, algorithmic innovations, and practical implementations of privacy-preserving ML and EC algorithms. We welcome contributions addressing privacy–utility trade-offs in data engineering and optimization. Specifically, topics of interest include, but are not limited to, the following:

- Privacy-preserving data mining;
- Privacy-preserving data publishing;
- Data anonymization;
- Large language models (LLMs) for privacy;
- Differential privacy;
- Federated learning;
- Multi-objective optimization;
- Large-scale optimization;
- Secure multi-party computation;
- Homomorphic encryption;
- Privacy-aware feature engineering and selection.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

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