Special Issue

Privacy-Preserving Solutions and Technologies for the Big Data Era

Message from the Guest Editors

In the big data era, the rapid growth of data collection technologies (e.g., mobile phones, sensors, wearable devices, visual sensing, etc.) has resulted in large-scale data collection and processing. However, sensitive information in such large-scale datasets has raised significant concerns about data privacy and security. The Special Issue will publish high-quality papers that can assist the privacy and database community in understanding next-generation privacy requirements and the corresponding solutions. The following is a list of the main topics covered by this Special Issue:

- data anonymization
- differential privacy
- federated learning
- synthetic data
- machine learning-aided anonymization
- encryption
- privacy-preserving ML/AI
- hybrid privacy methods
- data-centric privacy methods
- privacy methods for diverse computing paradigms
- privacy methods for diverse data modalities
- privacy methods for data sharing
- new privacy/utility quantification methods
- privacy methods for poor quality datasets
- sampling-based privacy methods
- privacy protection in the lifecycle of AI applications
- de-anonymization methods

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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