Special Issue

Privacy-Preserving Computing for Analytics and Mining

Message from the Guest Editor

Due to the recent proliferation in digital solutions such as social networks, recommender systems, cyberphysical social systems, and the Internet of Things, a large amount of data about an individual is collected and processed. These collected data often contain information about an individual's identity, salary, health status, social activities, etc. On one hand, this data is regarded as an oil of the economy when processed using advanced data mining and analytics tools. On the other hand, mishandling such data can spark public criticism and anger if privacy protection is not ensured. Making sense of such data while at the same time preserving privacy is another longstanding challenge in academia and research. To strike a balance between utility and privacy, much research has been proposed. Nevertheless, technical challenges and open research gaps remain in the area of privacy-preserving computing for analytics and mining purposes leverage individuals' data.

This Special Issue aims to present recent advances in tools, methods, techniques, prototypes, case studies, and technologies to improve privacy preservation leveraging traditional and AI technologies.

Guest Editor

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