Special Issue

Data Privacy Preserving for Multimedia Systems

Message from the Guest Editors

This Special Issue focuses on advancing research in privacy-preserving multimodal video analysis and its applications in multimedia systems. With the rapid growth of intelligent video systems leveraging multimodal data (visual, audio, textual, and sensor signals), significant privacy concerns arise due to the sensitive nature of such data. This issue invites original research on innovative algorithms, architectures, and frameworks addressing secure data handling, efficient computation, robust learning, and fair inference across diverse modalities. We encourage submissions on topics such as federated learning, differential privacy, secure cross-modal retrieval, and privacy-aware video generation, alongside real-world deployments and new benchmarks. This Special Issue aims to foster interdisciplinary solutions combining machine learning, computer vision, signal processing, and hardware design to enable secure, scalable, and ethical multimedia systems. We warmly welcome researchers and practitioners to contribute their cutting-edge work to shape the future of privacy-preserving multimedia technologies.

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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