Special Issue

Perspectives and Applications of Multimodal Artificial Intelligence and Big Data

Message from the Guest Editors

A vast amount of data are generated by humans through smartphones, the Web, and social media, as well as from sensors. These data are highly heterogeneous, often combining text, images, audio, video, and multiple sensory inputs simultaneously. Artificial intelligence (AI) systems play a crucial role in enhancing humans' ability to monitor, understand, analyse, and generate knowledge from these diverse data sources. In particular, multimodal AI facilitates the integration of two or more modalities (such as speech, gesture, and facial expressions) to understand complex relationships among different data types. This approach enables more comprehensive results and the more effective fusion of various data formats, leading to improved decision-making. This Special Issue invites submissions that focus on the methods, applications, challenges, and perspectives of Multimodal AI across a wide range of application areas, with a particular interest in multimodal monitoring and robotics for assistance, among other areas.

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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