

Special Issue

Cognitive Computing for Image, Signal, and Biomedical Applications

Message from the Guest Editors

The Special Issue aims to highlight recent advancements in the intersection of cognitive computing and biomedical engineering applications. We invite contributions that present novel methodologies, innovative applications, and interdisciplinary approaches, with particular emphasis on data-driven, AI-based techniques that improve accuracy, interpretability, and practical utility in medical and biomedical contexts. This Special Issue is also organized in conjunction with CISP-BMEI 2025 (<http://www.cisp-bmei.cn/>), a premier international congress that brings together the communities of image and signal processing (CISP) and biomedical engineering and informatics (BMEI). Manuscripts will undergo rigorous peer review to ensure the highest quality and relevance to the field. We cordially invite submissions to this Special Issue, encompassing all facets of AI/ML/DL for the following:

- Image and signal processing;
- Biomedical imaging and visualization;
- Biomedical signal processing and analysis;
- Bioinformatics and medical informatics.

Guest Editors

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Prof. Dr. Yan Wang

Dr. Qing Zhang

Dr. Qian Wang

Deadline for manuscript submissions

30 September 2026



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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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