

## Special Issue

# Artificial Intelligence Applications for Cultural Heritage: Innovations, Challenges, and Opportunities

### Message from the Guest Editors

This Special Issue aims to contribute to the exploration of the state of the art in AI applications for Cultural Heritage. In particular, a particular emphasis will be given on interdisciplinary approaches and computational sustainability, ranging from generative AI to agent-based systems. Contributions may include, but not be limited to, theoretical models, case studies, system architectures, and evaluation methodologies that can be applied to domains such as historical sites, virtual museums, historical data mining, and virtual and augmented reality experiences. Topics may include (but are not limited to) :

- AI for artifact analysis, classification, and digital restoration;
- Application of generative AI;
- AI for artifact analysis, classification, and digital restoration;
- Semantic enrichment and automated metadata extraction from historical archives;
- Knowledge-based systems and data integration in heritage platforms;
- Mixed reality (AR/VR) powered by AI for museum and site experiences;
- AI for storytelling and personalized cultural content delivery;
- Secure, privacy-aware, and scalable infrastructures for heritage data;
- Case studies and lessons learned from implemented AI heritage projects.

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### Guest Editors

Prof. Giuseppe Maria Luigi Sarnè  
Prof. Dr. Fabrizio Messina  
Prof. Dr. Domenico Rosaci

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### Deadline for manuscript submissions

31 August 2026



## Big Data and Cognitive Computing

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*Big Data and Cognitive Computing*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
bdcc@mdpi.com

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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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### Editor-in-Chief

Prof. Dr. Min Chen

School of Computer Science and Engineering, South China University of Technology, Guangzhou 510641, China

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