



*symmetry*



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## Recent Advances in AI-Based Multimedia Security and Protection with Symmetry

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Deadline for manuscript submissions:

**closed (2 October 2023)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to contribute state-of-the-art original research outcomes toward AI-based multimedia security and protection and provide advanced methods or engineering applications for researchers and engineers. All submitted papers will be peer-reviewed and selected on the basis of both their quality and relevance to the topics of this Special Issue.

Potential topics include but are not limited to:

- Symmetry theory of information hiding;
- Steganography and steganalysis;
- Digital watermarking in multimedia;
- Symmetry issues in reversible data hiding;
- Fake multimedia forensics and anti-forensics;
- AI-based multimedia generation and detection;
- AI-based deepfake videos and detection;
- AI-based multimedia authentication;
- Symmetry/asymmetry theory in multimedia encryption;
- Symmetry and heuristic in multimedia protection;
- Privacy and security issues in multimedia cloud;
- Symmetry and multimedia protection applications.



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# Special Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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