

Special Issue

Application of Symmetry in Natural Language Processing

Message from the Guest Editors

This Special Issue on “Application of Symmetry in Natural Language Processing” provides a dedicated forum for advancing both theoretical foundations and practical implementations of symmetry-related concepts. We seek original research that investigates symmetry at multiple linguistic scales (word-level, sentence-level, document-level); explores computational formalizations (bidirectional equivalence, transformation preservation, group-theoretic frameworks); and develops novel implementation methods, including symmetric neural architectures, loss functions, data representations, and regularization techniques. Of particular interest are contributions that address the task-dependent nature of symmetry, when symmetric formulations excel (reciprocal relationships, paraphrase identification) versus when asymmetric frameworks prove superior (substitutability, hierarchical semantics), and hybrid approaches that integrate explicit symmetry modeling with contextualized representations to achieve complementary benefits. We invite high-quality original research articles and review papers.

Guest Editors

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About the Journal

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.

Editor-in-Chief

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