

# Special Issue

## Applications of Symmetry Three-Phase Electrical Power Systems

### Message from the Guest Editors

Three-Phase Electrical Power Systems are widely used in industry. All factories are supplied by three-phase voltage, yet real three-phase circuits are always asymmetrical. This asymmetry can be found either in the generators or in the consumers or in both places. When new consumers are switched on or when faults occur (as short or open circuits), the normal functioning of the system is affected. And then it is necessary to analyse the overvoltages and short currents that occur there. The study of transience in three-phase asymmetric systems is essential. Cybersecurity in three-phase power systems has always been at the forefront. This is an essential condition for the necessary development of new algorithms and their implementation with innovative technical tools and devices. In this context, we are pleased to invite you to submit articles related to the problems you have researched in three-phase electrical systems. The aim of the Special Issue is to publish articles related to the following topics of the journal *Symmetry*'s "Computer Section" (especially cybersecurity in three-phase systems) and "Engineering and Materials Section" ...

### Guest Editors

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### Deadline for manuscript submissions

30 November 2025



# Symmetry

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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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### Editor-in-Chief

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