

Special Issue

Symmetry/Asymmetry in Computer-Aided Industrial Design

Message from the Guest Editors

Symmetry and asymmetry are pervasive elements in the field of industrial design, playing crucial roles both aesthetically and functionally. On the one hand, symmetry serves as a fundamental aesthetic principle that significantly contributes to the success of design.

By applying symmetry alongside other aesthetic design principles, such as balance, proportion, and unity, designers establish a robust foundation for guiding visual composition heuristically. This approach not only enhances aesthetic appeal, but also fosters user satisfaction and design usability. On the other hand, asymmetry presents unique challenges and opportunities within the industrial design process. It encompasses various forms of information discrepancies, including the following: (1) Demand information asymmetry: The gap between the demand information gathered by designers and the actual needs of users. (2) Perceptual asymmetry: The disparity between the information conveyed by a design scheme and the user's perception or interpretation of it. Understanding and studying these symmetry/asymmetry issues can provide critical support for the effective execution of the industrial design process...

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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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