

Special Issue

Symmetry and Graphics in AI Era: Synergies Between Artificial Intelligence and Visual Computing

Message from the Guest Editor

Dear colleagues, The rapid advancement of artificial intelligence (AI), especially the deep learning and generative models, has profoundly transformed computer graphics. Simultaneously, graphics technologies—ranging from geometry processing, rendering, and animation to virtual and augmented reality—are increasingly providing essential tools and environments for AI development. This synergy is not only accelerating innovation, but also opening new research frontiers in areas such as digital twins, immersive AI, and embodied intelligence. This Special Issue aims to explore this dynamic two-way relationship by bringing together cutting-edge research that advances both fields by exploring their convergence. We are pleased to invite you to submit your original research papers or review papers to this Special Issue. The Special Issue will focus on two complementary themes:

- AI for Graphics
- Graphics for AI

We look forward to receiving your contributions.

Guest Editor

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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.

Editor-in-Chief

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