Special Issue

Advances in Scientific Visualization and Computer Graphics

Message from the Guest Editors

Scientific visualisation enables researchers to explore, interpret and communicate insights across a range of domains, from medicine and biology to meteorology, architecture and manufacturing; this provides a critical bridge between raw data and human understanding. This Special Issue explores cutting-edge developments in scientific visualization and computer graphics, focusing on innovative techniques, methodologies, and systems designed to handle the increasing complexity and scale of modern scientific data. The scope of this Special Issue includes domain-specific visualization approaches, real-time rendering, machine learning-assisted visual analysis, and optimization techniques for adaptive systems. The Special Issue also addresses challenges related to large-scale data visualization, interactive exploration, and the integration of modern platforms such as extended reality and mobile devices. This Special Issue also welcomes articles that address the improvement of clarity, storytelling, and communication in science, as well as those that leverage parallel computing, in situ visualization, and human visual system-based techniques to tackle computational and data challenges.

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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