

ADVANCED VISUALIZATION AND APPLICATIONS FOR SCIENTIFIC SIMULATION AND MEASUREMENT

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ABSTRACT

In scientific research and analysis—including fluid dynamics—visualization is an indispensable technology for communication within the ecosystem. In particular, the use of virtual reality to provide immersive experiences is one of the fields that has made remarkable progress over the past decade.

For example, in the fields of disaster prevention and mitigation, simulation results are not only useful to governments and local authorities for system design but also effective in raising residents' awareness of crisis management. There are numerous research fields—such as environmental issues and urban planning—where solving problems requires consensus among many stakeholders. This mini-symposium serves as a forum to examine the latest advancements in the field.

Topics of interest include:

- Visualization system development and application
- GIS and Environment Simulation and Measurement
- Virtual Reality Visualization of Scientific and Technological Data
- Preliminary Study on Visualization and Virtual Reality
- Digital Twin

In this session, we aim to advance visualization in scientific simulation and measurement through such technical exchanges.