



Northern Illinois University

Northern Illinois University Inspires Next Generation of Visual Scientists

Researchers at Northern Illinois University (NIU) are interested in the research and development of more effective ways to visualize and interact with complex data sets in three dimensions (3D) to derive new insights. Legacy approaches proved incapable of rendering the detail needed. The team sought to provide users new and intuitive ways to interact with their simulation data, in real time, without relying on a keyboard and mouse. The HPC system backing the visualization solution needed underlying infrastructure capable of supporting both the real-time and interaction requirements. With support from Atipa Technologies and Intel® Select Solutions for Simulation & Visualization, the NIU team has the compute power needed to resolve large-scale simulations, including virtual reality (VR) and augmented reality (AR) scenarios.

“Atipa and Intel’s infrastructure makes it possible to train the next generation of visualization experts with advanced tools and software infrastructure they will encounter in most advanced industry settings.”

Michael E. Papka, NIU professor of computer science

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