



Contribution ID: 379

Type: **not specified**

Science Gateways and Their Tremendous Potential for Science and Engineering

Wednesday, 23 September 2009 09:45 (45 minutes)

Abstract

The increasingly digital component of science today poses exciting challenges and opportunities for researchers. Whether it's streaming data from sensors to computations simulating the formation of tornadoes, the tagging and sharing complex multimodal video, audio and biological data in the study of language patterns or the use of geographic information systems to anticipate the spread of disease, the challenges are enormous and continue to grow.

The existence of advanced Cyberinfrastructure (CI) tools or science gateways can significantly increase the productivity of researchers facing the most difficult challenges - in some cases making the impossible possible. The TeraGrid Science Gateways program works to incorporate high end resources through these community-designed interfaces.

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Session Classification: Technical Plenary: Community Access to Production Resources