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Information Science and Technology Institute

Kenny Gruchalla

National Renewable Energy Laboratory (NREL)

Immersive Analytics: Knowledge Discovery from the Inside

Wednesday, July 20, 2016

3:00 PM - 4:00 PM

TA-3, Bldg. 1690, Room 102
(CNLS Conference Room)

Abstract: This talk will explore how advanced interaction and display technologies can be used to support analytical reasoning, knowledge discovery, and decision making. Specifically, several examples will be presented detailing some recent successes in using state-of-the-art immersive visualization technologies to promote knowledge discovery in the National Renewable Energy Laboratory's Computational Science Center. Immersive visualization is combination of hardware and software that provides the user with a psycho-physical experience of being immersed in a computer generated scene. Immersive visualization may aid in the understanding of complex data by supporting our cognitive structures that have developed from embodied perception and action in the physical world.

Biography: Kenny Gruchalla is a senior scientist at the National Renewable Energy Laboratory and an adjunct assistant professor at the University of Colorado at Boulder. He leads the scientific visualization efforts in the Computational Science Center at NREL. Kenny has more than 20 years of applied professional experience in scientific programming and scientific visualization, spanning several scientific disciplines, including: energy, aerospace, geophysics, molecular biology, and environmental engineering. His work has primarily focused on developing interactive scientific visualization techniques that provide tools for finding meaning in increasingly large and complex data. He holds a Ph.D. and M.S. in computer science from the University of Colorado at Boulder and a B.S. in computer science from New Mexico Tech.

For more information, contact the technical host Curt Canada, 665-7453, cvc@lanl.gov

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