

Immersive Learning in the STEM Disciplines

Dr. Winifred Elyse Newman is the Mickel Professor of Architecture at Clemson University and the Associate Dean for Research and Academic Affairs.

Abstract: Research shows that Technology-Mediated Learning Environments (interacting with computer-based tools) can enhance learning. Augmented Reality (AR) — the ability to overlay computer information onto the real world, in real-time, shared by multiple users — can be critical in developing the next generation of computer-based learning environments (Kamarainen, 2013; Lee, 2012, Yuen et al., 2011; Klopfer & Squire, 2008). This talk explores several case studies involving collaborative learning in STEM courses.

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via Zoom

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Bio: Dr. Winifred Elyse Newman is the Mickel Professor of Architecture at Clemson University and the Associate Dean for Research and Academic Affairs. She also serves as Director of the Institute for Intelligent Materials, Systems and Environments (CU-iMSE), promoting digital and human-machine hybrid solutions as a paradigm shift in the design and occupation of the built environment. Dr. Newman concentrates on spatial perception in architecture, ecological psychology, and neuroaesthetics with active research in neuroscience and architecture, data visualization, mapping, STEM learning environments, and histories of technology and science. Dr. Newman is Executive Editor of the Journal for Technology, Architecture, and Design. Recent publications include Data Visualization for Design Thinking: Applied Mapping.

