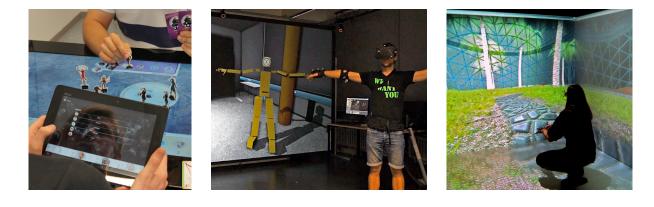


DRESDEN TALKS ON INTERACTION & VISUALIZATION

Organized by Chair of Multimedia Technology



WHEN & WHERE? JULY 8, 2015 | 1:15 PM ROOM APB 1004

PROF. DR. MARC ERICH LATOSCHIK

LEHRSTUHL FÜR MENSCH-COMPUTER-INTERAKTION, JULIUS-MAXIMILIANS-UNIVERSITÄT WÜRZBURG

INTELLIGENT, INTERACTIVE, MULTIMODAL TECHNIQUES FOR FUTURE HUMAN-COMPUTER INTERFACES

Multimodal interfaces in Virtual, Augmented, and Mixed Realities promise to become novel forms of Human-Computer Interaction, taking into account the requirements defined by the physical, cognitive, and perceptive skills of users. Central aspect of such interfaces is their interactive nature combined with simulated spatial 3D content and environments, paving way for enhanced embodiment, immersion, and presence.

These interfaces comprehensively apply multimodality to the output as well as to the input side of closely-coupled human-computer systems. A variety of output channels for, e.g., visual, auditive, or haptics stimuli is complemented by multiple interaction paradigms based on direct manipulation, touch, speech and gesture, or even virtual agents. While each of the former I/O-related aspects in itself defines its own sets of requirements and methods to solve it, the highly interactive nature of such systems drastically complicates conceptual and technical solutions.

This talk will introduce the state-of-the-art, from scientific prototypes to computer game technology and will highlight some ongoing developments. Along the way, we will point-out chances as well as critical aspects of this technology which has already begun to enter our everyday lives, from our living-rooms to future work places.



CHAIR OF MULTIMEDIA TECHNOLOGY Prof. Dr.-Ing. Raimund Dachselt



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