

'Latest Developments in Virtual Reality' (via HDV link)

Presented by Dr Jurgen Schulze (Research Scientist, Calit2, and Computer Science Lecturer, UCSD)

Date: Friday 19 March 2010 Time 10am-11am Location: Room 135, Bldg 26, Clayton Campus

Registration by 18 March to: Rob.Gray@infotech.monash.edu.au

Abstract (View video: http://www.youtube.com/watch?v=JYd_FdnLqEE)

At the University of California, San Diego, researchers use the most sophisticated 3D Virtual Reality technology to bring raw data - billions of numbers from high performance computers - to life. Visualisation techniques are now relevant to many disciplines - in particular; Medicine, the Sciences, Engineering and Art and Design

"I can create virtual worlds that could never have existed in reality, that noone has ever thought about...I'm the first one to really build and make visible, and make accessible to people." (Dr Jurgen Schulze)

The Immersive Visualization Laboratory at the California Institute for Telecommunications and Information Technology (Calit2) has been researching both virtual reality software applications, as well as virtual reality display and interaction hardware since 2005. In 2007, we built the StarCAVE, still one of the most advanced virtual reality systems in the world. Since then, we created an autostereoscopic display wall, the REVE, and the next generation virtual reality cave, the NexCAVE. We also made advances in interaction techniques and interaction hardware, like two-handed interaction devices, and a brain-computer interface. This seminar talk will present the latest developments at Calit2 in these areas.

Bio

Jürgen P. Schulze is a Research Scientist at the California Institute for Telecommunications and Information Technology, and a Lecturer in the computer science department at the University of California San Diego. His research interests include scientific visualization in virtual environments, human-computer interaction, real-time volume rendering, and graphics algorithms on programmable graphics hardware. He holds an M.S. degree from the University of Massachusetts and a Ph.D. from the University of Stuttgart, Germany. After his graduation he spent two years as a post-doctoral researcher in the Computer Science Department at Brown University.

Queries re this seminar: Rob Gray 0411022041

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26 March - Dr Ania Sher - Mathematical Models of Cardiac Muscle Cells: Predicting Drug-induced Arrhythmias

16 April - Dr Robert Konecny - Multiscale Modeling of Proteins,

7 May - Prof Philip Bourne - New Modes of Scholarly Communication,

URL: <https://messagelab.monash.edu.au/MURPA/MURPA2010>

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