

Die Fakultät für Informatik der Universität Wien lädt Sie herzlich ein zum

CS-Colloquium

An Intelligent Joystick in Your Head

Prof. Anton Nijholt

University of Twente

Wann? 16. 1. 2013, 16:00 Uhr

Wo? Hörsaal 3
Währinger Straße 29
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Abstract

Brain-computer interfacing has become a topic of interest for computer scientists and in particular human-computer interaction researchers. They are looking for applications that add the brain-activity modality to other multi-modal ways of interacting with 'computers'. That is, a modality that can be added to the usual mouse and keyboard control of applications. But, also a modality that can be added to existing ideas about sensor-equipped environments and devices that also take as input information obtained from auditory, visual, tactile and physiological sensors. We review and discuss possibilities (and limitations) of brain-computer interfacing. That is, we look at the possibilities of on-line control of entertainment applications and on-line adaptation of an application based on a user's brain activity. The presentation will be concluded with examples of our research on entertaining brain-computer interface applications and future applications that require collaborative and synchronized brain activity from several users or gamers.

Bio

Anton Nijholt is professor in the Human Media Interaction research group of the University of Twente. He studied mathematics and computer science at the Delft University of Technology and did his PhD research at the Vrije Universiteit in Amsterdam. He took a permanent position in 1989 as a full professor at the University of Twente, the Netherlands. In Twente he initiated the Human-Media Interaction research group and supervised close to fifty PhD students. Recent research interests also include brain-computer interfacing, in particular for entertainment applications.

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