



**Minerva Center**  
for human intelligence  
in immersive, augmented  
and mixed realities



## **Minerva Center**

Kindly invites you to attend  
a talk by:

### **Stefan Debener**

Oldenburg University  
Germany

Monday, May 1st at 14:15

Sharet Building  
Room 214

### **Monitoring brain activity - out and about**

Unlike other functional neuroimaging modalities, electroencephalography (EEG) shows promise in capturing human brain activity during natural behaviour and whole-body movements. Since human behaviour is context-dependent, advances in the field of cognitive neuroscience can be expected from mobile EEG research. However, interpreting brain activity recorded in complex, uncontrolled situations is very challenging and requires the availability of contextual information, such as sounds, movements or other physiological signals. Moreover, hardware should be unobtrusive and robust, without compromising signal quality. I will discuss the current state-of-the-art and report several studies using mobile EEG for the investigation of cognitive-motor interference and auditory attention tracking in uncontrolled environments.