

## **Prof. Dr. Heiko Wersing**

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### **Vision in Human and Machine**

Using architectural principles from biological visual processing hierarchies has led to great advances in computer vision for autonomous driving and robotics. Despite the great success of these so-called deep learning models, the flexibility and robustness of biological visual systems still remains a great challenge for any machine vision approach. In this talk, I will present models of neural visual processing architectures that bridge the gap from neural circuits and learning rules towards their application in realistic scenarios of scene understanding and interactive object learning for humanoid robots like Hondas Asimo.

### **CV**

Heiko Wersing received the Diploma in Physics in 1996 and a Ph.D. in science in 2000 from Bielefeld University, Germany. In 2000 he joined Honda R&D Europe GmbH in Offenbach, and is now working as a chief scientist at the Honda Research Institute Europe GmbH, Offenbach Germany. From 2007 until 2012 he was co-speaker for the graduate school of the CoR-Lab research institute for cognition and robotics at Bielefeld University, Germany. In 2017 he was awarded an honorary professorship at the Faculty of Technology of Bielefeld University, Germany. His research interests are incremental & online learning, personalization, adaptive HMI, and computer vision.