

Human-Based Sensing – Sensor Systems to Complement Human Perception

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Abstract

The approach of human-based sensing is based on the assumption that sensor systems for individual use have optimal performance if coherent with the human perception system. The benefits of complementing the human sensing with sensor systems that strengthen the information and make the human able to perform more adequate and optimized decisions based on the sensor information, will improve the human capability. The arguments for designing sensor systems that increase the human ability in order to enhance the information from its surroundings are obvious. In this paper, an example of this approach, related to human-based sensing, will be demonstrated. The ability to strengthen the human capability, and complementing human perception with additional sensing, by the use of artificial sensor systems, will increase the human performance.