

Human perception, context aware applications and wearable sensors

Original title / Originaltitel

Menschliche Wahrnehmung, kontextbewusste Applikationen und tragbare Sensoren

Summary / Zusammenfassung

In these studies we investigated the relationship between human perception, context aware applications and wearable sensors. It was found that human performance in a memory task is increased by explicitly displaying uncertainty information. Moreover, displaying confidence information increased the user's trust in a system. Finally, a model for human interruptability was evaluated with human subjects and an automatic estimation from wearable sensors was developed.

Weitere Informationen unter www.psychologie.unizh.ch/vicoreg/research/

Publications / Publikationen

Antifakos, S., Kern, N., Schiele, B., & Schwaninger, A. (2005). Towards improving trust in context aware systems by displaying system confidence. MobileHCI'05, September 19–22, 2005, Salzburg, Austria. ACM International Conference Proceeding Series, 111, 9-14. [PDF]

Antifakos, S., Schwaninger, A., & Schiele, B. (2004). Evaluating the effects of displaying uncertainty in context-aware applications. Sixth International Conference on Ubiquitous Computing, September 7-10, 2004, Nottingham, England. Lecture Notes in Computer Science, 3205, 54-69. [PDF]

Kern, N., Antifakos, S., Schiele, B., & Schwaninger, A. (2004). A model for human interruptability: experimental evaluation and automatic estimation from wearable sensors. Eight IEEE International Symposium on Wearable Computers (ISWC '04), Volume 1, 158-165. [PDF]

Weitere Informationen unter www.psychologie.uzh.ch/vicoreg/publications/index_byarea.htm

Keywords / Suchbegriffe

Context-aware applications, human interruptability, system confidence

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Other Links to external Webpages / Andere Links zu externen Webseiten

www.psychologie.unizh.ch/vicoreg

<http://www.mis.informatik.tu-darmstadt.de/>

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