

Development and evaluation of adaptive computer based training systems for airport security screeners

Original title / Originaltitel

Entwicklung und Evaluation adaptiver computergestützter Trainingssysteme für Luftsicherheitsbeauftragte

Summary / Zusammenfassung

For a good performance, an airport security screener needs to know the different types of threat objects and what they look like in x-ray images of passenger bags. Individually adaptive computer based training is a powerful tool to train screeners' object recognition skills and thereby increase security and efficiency in x-ray screening substantially. Based on results of visual cognition, perceptual learning, and signal detection theory we develop and evaluate individually adaptive computer based training systems for increasing threat detection performance in X-ray screening.

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

Publications / Publikationen

Hardmeier, D., Hofer, F., & Schwaninger, A. (2006b). The role of recurrent CBT for increasing aviation security screeners' visual knowledge and abilities needed in x-ray screening. Proceedings of the 4th International Aviation Security Technology Symposium, Washington, D.C., USA, November 27 – December 1, 2006, 338-342. [PDF]

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

Keywords / Suchbegriffe

Airport security human factors. adaptive computer based training, x-ray image interpretation

Project Leadership and Contacts / Projektleitung und Kontakte

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Other Links to external Webpages / Andere Links zu externen Webseiten

<http://www.psychologie.unizh.ch/vicoreg/>

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