

The role of consideration information for x-ray image interpretation

Original title / Originaltitel

Die Rolle von "consideration information" bei der Interpretation von Röntgenbildern

Summary / Zusammenfassung

The importance of aviation security has increased dramatically in recent years. Visual inspection of passenger bags using x-ray technology is an essential component of airport security checks. In this project, we investigate whether displaying consideration information can help security screeners to better identify prohibited items in x-ray images of passenger bags. Consideration information refers to simultaneously presented x-ray image parts which contain visually and conceptually similar prohibited items as well as x-ray image parts which are visually similar but do not contain a prohibited item. The role of consideration information for increasing detection performance and efficiency is investigated with novices, assistant and expert screeners.

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

Publications / Publikationen

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

Keywords / Suchbegriffe

Machine learning, human computer interaction, x-ray image interpretation

Project Leadership and Contacts / Projektleitung und Kontakte

Dr. Adrian Schwaninger (Project Leader)

Other Links to external Webpages / Andere Links zu externen Webseiten

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

<http://www.ifi.unizh.ch/ddis/>

Funding Source(s) / Unterstützt durch

Universität Zürich (position pursuing an academic career), Others

APSS

In Collaboration with / In Zusammenarbeit mit

Prof. Abraham Bernstein, PhD (Co-Project Leader)

Switzerland

University of Zurich

Department of Informatics

Binzmühlestrasse 14

8050 Zürich

Duration of Project / Projektdauer

May 2007 to Jul 2008