Human Factors and
Cognition Team

Human Factors & Cognition
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Interaction Design Internship at Thales Research and Technology

Title: SIMS Project - Supporting military Command and Control on a Multi Touch Table

Related Project(s): Other EDA Joint Investment Programmes on Force Protections (e.g. CARDINAL):

Background/Motivation: The SIMS research project is funded by the European Defence Agency under the Joint Investment Programme on Force Protection. The Joint Investment Programme focuses on technologies for protecting EU armed forces against threats such as snipers, booby traps and improvised bombs. The goal of SIMS is to develop novel mission planning tool(s) and aids for force protection assets in an asymmetric warfare context in urban and non-urban environments. Thales Netherlands' contribution to SIMS is in the area of human-machine interface (HMI) investigation via the Human Factors and Cognition Laboratory based in Delft.

Experience Required: Masters Students in Interaction Design

Project Description: The role of the Human Factors and Cognition Team (HFCT) in SIMS is to take a user-centered approach in developing and testing preliminary Human Machine Interfaces. The HFCT must identify the information required and to examine how best to present this information using the most optimal interface configurations. The intern will be expected to contribute to the design of a Mission Monitoring and Debriefing Tool to be implemented on a Multi Touch Table. The student will work with the software development team who will identify the technical constraints of the MTT and with the HFCT Team who will work with the student to identify the operator constraints with regards to interacting with the tool.

Intended results: The goal will be to develop an HMI to support mission monitoring and debriefing. The intern will contribute to testing different display options. An HMI and a report summarizing the research endeavors are the expected outcomes of this internship.

- Preliminary Human Machine Interface
- Research Report

Validity: For three to six months from September 2011
Project Location: D-CIS Lab (Delft) includes probable travel within the Netherlands.
Supervisors: Dr. Stas Krupenia and Dr. David Mobach
Links: http://www.d-cis.nl/; http://www.eda.europa.eu/genericitem.aspx?id=184