



January 4-7, 2011, The Grand Hyatt Kauai Resort & Spa, Koloa, Kauai, Hawaii.

Track: Collaboration Systems and Technologies

Minitrack: Cognitive Perspectives on Collaboration

In knowledge intensive collaborative tasks the main 'production factor' is cognitive effort.. Cognitive load research has mainly focused on individual tasks. In order to design interventions that improve cognitive efficiency in collaborative tasks we need to understand cognitive patterns in collaboration, and cognitive effort involved in using collaboration technology.

This minitrack aims to present papers and encourage discussion on this exciting new level of analysis. Various perspectives include an understanding of collaboration and phenomena in collaboration at a cognitive level. Such research could include cognitive load analysis, cognitive explanation of phenomena such as motivation, commitment, (group) efficacy, trust, shared understanding, sense-making, shared mental models and other group convergence phenomena from a cognitive perspective, and various ways of measuring cognitive activity in collaboration. Further, we would encourage authors to reflect on the implications of their findings for the design and use of collaboration support technology and facilitation of collaboration.

Minitrack Chair

Gwendolyn L. Kolfshoten

Faculty of Technology Policy and Management

Department of Systems Engineering

Delft University of Technology

Jaffalaan 5, 2628BX

Delft, The Netherlands

Tel +31 (0) 152783567 Fax: +31 (0) 152783429

Email: g.l.kolfshoten@tudelft.nl

Gwendolyn L. Kolfshoten is assistant professor at Delft University of Technology in the Netherlands. She is an experienced facilitator of thinkLets-based Group Support Systems workshop having worked with numerous public and private organizations. Her research focuses on the quality of thinkLet-based collaboration process design for complex tasks. Dr. Kolfshoten developed the first example of Computer Supported Collaboration Engineering (CACE) technology – an integrated support suite to assist collaboration engineers in process design.

2.9a.10