



A Cognitive Approach to Situation Awareness: Theory and Application

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The importance of 'situation awareness' (SA) in assessing and predicting operator competence in complex environments has become increasingly apparent in recent years. It has been widely established that SA is a contributing factor to many commercial and military accidents and incidents. Yet determining exactly what constitutes SA is a very difficult task, given the complexity of the construct itself, and the many different processes involved with its acquisition and maintenance.

This volume brings together recent developments from researchers and practitioners from around the world who are studying and applying SA from a cognitive perspective. The 41 contributors represent many different theoretical perspectives, research approaches and domains of application. Each chapter has a primary emphasis around one of three main topics - theory, measurement and application and examines the considerable inter-linkage between them. To bring further coherence to the book, all of the contributors received draft manuscripts of those chapters most relevant to their own.

Designed to be completely international and interdisciplinary, the authors themselves present varied perspectives from academic departments and industrial organisations from around the world, and from broad applications - with contributions from researchers in the domains of process control, sport, aviation, transportation, and command and control.

The readership includes practitioners, academics and researchers within human factors, ergonomics and industrial psychology; Graduate and Undergraduate students specialising within these areas during their final year.

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Theory: Defining and modeling Situation Awareness: a critical review, Robert Rousseau, Sébastien Tremblay, Richard Breton; Correspondence, cognition and sensemaking: a radical empiricist view of Situation Awareness, Sidney Dekker and Margareta Lützhöft; The concept of the situation in psychology, John Flach, Max Mulder and Marinus M. van Paassen; A task-oriented perspective of Situation Awareness, John Patrick and Nic James; The role of awareness in Situation Awareness, Darryl G. Croft, Simon P. Banbury, Laurie T. Butler and Dianne C. Berry; Modeling Situation Awareness in an organizational context: military command and control, David J. Bryant, Frederick M.J. Lichacz, Justin G. Hollands and Joseph V. Baranski; A cognitive streaming account of Situation Awareness, Simon P. Banbury, Darryl G. Croft, William J. Macken and Dylan M. Jones. Application: Spam: the real-time assessment of SA, Frank T. Durso and Andrew R. Dattel; Drivers' hazard perception ability: situation awareness on the road, Mark S. Horswill and Frank P. McKenna; Evaluating interruption-based techniques using embedded measures of driving anticipation, Alistair M. McGowan and Simon P. Banbury; Individual differences in situation awareness for transportation tasks, Leo Gugerty, Johnell O. Brooks and Craig A. Treadaway; Effects of Situation Awareness training on flight crew performance, Hans-Jurgen Hörmann, Simon P. Banbury, Helen J. Dudfield, Mike Lodge and Henning Solt; Technology, organization, and collaborative Situation Awareness in air battle management: historical and theoretical perspectives, Michael A. Vidulich, Robert S. Bolla and W. Todd Nelson; Infantry situation awareness, Han Tin French, Michael D. Matthews and Elizabeth S. Redden; Team Situation Awareness as communicative practices, Christer Garbis and Henrik Artman; The role of Situation Awareness in sport, Nic James and John Patrick; Situation Awareness: progress and directions, Mica R. Endsley; Author index; Subject index.

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