



Naturalistic Decision Making and Macro cognition

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This book presents the latest work in the area of naturalistic decision making (NDM) and its extension into the area of macro cognition. It contains 18 chapters relating research centered on the study of expertise in naturalistic settings, written by international experts in NDM and cognitive systems engineering. The objective of the book is to present the reader with exciting new developments in this field of research, which is characterized by its application-oriented focus.

The work addresses only real-world problems and issues. For instance, how do multi-national teams collaborate effectively? How can surgeons best be supported by technology? How do detectives make sense of complex criminal cases? In all instances the studies have been carried out on experts within their respective domains.

The traditional field of NDM is extended in this work by focusing on macrocognitive functions other than decision making, namely sense-making, coordination and planning. This has broadened the scope of the field. The book also contains a theoretical discussion of the macro-micro distinction.

Naturalistic Decision Making and Macro cognition will be relevant to graduate students, researchers and professionals (including professionals and researchers in business, industry and government) who are interested in decision making, expertise, training methods and system design. The material may be used in two ways: theoretically, to advance understanding of the field of naturalistic decision making; and practically, to gain insight into how experts in various domains solve particular problems, understand and deal with issues and collaborate with others.

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