

Dr. Mica R. Endsley

Dr. Mica R. Endsley is President of SA Technologies, a cognitive engineering firm specializing in the analysis, design, measurement and training of situation awareness in advanced systems, including the next generation of systems for aviation, air traffic control, health care, power grid operations, transportation, military operations, homeland security, and cyber.

From 2013 to 2015, she served as Chief Scientist of the U.S. Air Force, reporting to the Chief of Staff and Secretary of the Air Force to provide guidance and direction on research and development to support Air Force future operations and providing assessments on a wide range of scientific and technical issues affecting the Air Force mission. She has also held the position of Visiting Associate Professor at MIT in the Department of Aeronautics and Astronautics and Associate Professor of Industrial Engineering at Texas Tech University. In the 1980's she was an Engineering Specialist focused on crew station design for advanced aircraft at the Northrop Corporation.

Dr. Endsley received a Ph.D. in Industrial and Systems Engineering specializing in Human Factors from the University of Southern California. She also received both Bachelors and Masters degrees in Industrial Engineering from Texas Tech University and Purdue University respectively.

Dr. Endsley is a recognized world leader in the design, development and evaluation of systems to support human situation awareness (SA) and decision-making. She pioneered work in this field, developing the leading definition and cognitive theory of SA and has led numerous investigations on situation awareness, including studies of expertise and errors in SA, SA requirements analyses across multiple domains, development and validation of the SAGAT technique for objectively measuring SA, studies of the effects of automation on SA and human performance, and the development of approaches for integrating humans and automated systems. In addition, Dr. Endsley has been involved in leading research to develop advanced cognitive skills training programs for enhancing situation awareness among individuals and teams. Recent work involves extending her cognitive model of SA into computational models for decision support, combating information warfare, the design of physician-centered electronic health records, and the development of augmented reality displays to support SA. She has authored over 200 scientific articles and is the co-author of 3 books including *Analysis and Measurement of Situation Awareness* and *Designing for Situation Awareness*.

Dr. Endsley has received numerous awards for teaching and research and is a Certified Professional Ergonomist. She is currently Chair of an External Advisory Board on Autonomy for Hypersonics for Sandia National Laboratories and is a member of the National Academy of Science Board on Human-System Integration. She has previously served as a consultant to the National Transportation Safety Board, and as a member of the U. S. Air Force Scientific Advisory Board, National Research Council Aeronautics and Space Engineering Board, NASA Space Human Factors Research Review Panel, and the FAA Human Factors Research and Development Advisory Committee.

Dr. Endsley is a Fellow and Past-President of the Human Factors and Ergonomics Society, and is a Fellow of the International Ergonomics Association. She is the founder and former Editor-in-Chief of the Journal of Cognitive Engineering and Decision Making and serves on the editorial board for three major journals.