Socio-Technical Decision Support in Air Navigation Systems: Emerging Research and Opportunities

Part of the Advances in Mechatronics and Mechanical Engineering Book Series

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Description:
The integration of technology into the aviation system planning has allowed for more stable, yet increasingly complex, models that enable better analysis techniques and new approaches to decision-making. These modern advances ensure higher productivity in addressing various planning problems.

Socio-Technical Decision Support in Air Navigation Systems: Emerging Research and Opportunities is a critical scholarly resource that contains a systematic analysis of formalized factors affecting socio-technical systems operators and how these factors influence decision-making process of professional and non-professional activities in air navigation systems. Featuring coverage on a broad range of topics, such as dimensional modeling, applications of decision support systems, and semantic analysis, this book is geared towards academicians, future pilots, aviation dispatchers, engineers, managers, and students.


Topics Covered:
• Analysis of Decision-Making
• Applications of Decision Support Systems
• Dimensional Modeling
• Neural Network Models
• Psycho-Physiological Factors
• Semantic Analysis
• Socio-Psychological Factors
• Socio-Technical Systems

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