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Cognitive Architectures for Real-Time ISHM

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In the real-time battlefield arena, situational awareness becomes critical to making the right decisions and achieving the overall goals for the system. The key to Situational Awareness is not simply collecting and disseminating data, but it is actually getting the right information to the right users at the right time. In ground processing systems, various sensors, spacecraft, and other data sources gather and generate data different relevant contexts. What is required is an Integrated System Health Management (ISHM) processing architecture that allows users to turn the data into meaningful information, and to reason about that information in a context relative to the user at that time, and to update the information real-time as the situation changes. In short, it is imperative that the information processing environment be efficient, timely, and accurate. Described will be an Intelligent Information Agent processing environment which allows data to be processed into relevant, actionable knowledge. Based on the technologies described above, situational management is one of the most innovative components of this processing system. Utilizing the Artificial Cognitive Neural Framework (ACNF) (Crowder, 2005), it can provide real-time processing and display of dynamic, situational awareness information.

Ключевые слова:

Содержание.

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