



Autonomous and Autonomic Systems: With Applications to NASA Intelligent Spacecraft Operations and Exploration Systems (NASA Monographs in Systems and Software Engineering)

By Walt Truskowski, Harold Hallock, Christopher Rouff, Jay Karlin, James Rash, Michael Hinchey, Roy Sterritt

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This unique book provides an in-depth discussion of autonomous and autonomic systems, their interdependencies, differences and similarities. Current and pending issues in these evermore increasingly important subjects are highlighted and discussed.

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Editorial Review

Review

From the reviews:

“Truskowski (NASA Goddard Space Flight Center) and colleagues have documented how NASA missions have become and will become more autonomous and automatic. ... The authors present several top-level examples along with ... helpful flowcharts. ... A thorough glossary and nearly 200 references provide a good basis for diving into more depth with other resources. This book would be a start for someone who is developing autonomous and automatic systems. ... Summing Up: Recommended. Professional audiences.”
(D. B. Spencer, Choice, Vol. 47 (11), July, 2010)

From the Back Cover

Technologies enabling autonomous and autonomic behaviors of spacecraft have steadily progressed, but, as argued in this book, need to be extended much farther to enable success of the most advanced un-crewed space-mission concepts in the future.

This book describes these technologies and their relevance not only for NASA space missions that have flown, but also for advanced future mission concepts. Early parts of the book present general background information on space missions that have flown, including mission design and operations, followed by descriptions of future mission concepts, all in relation to autonomy and autonomic capabilities.

Readers will find chapters on flight and ground software and evolution of flight and ground autonomy, as well as chapters on technologies for developing autonomic systems, agent-based autonomy, cooperative autonomy, constellation missions, and swarm missions. One appendix covers spacecraft attitude and orbit determination and control, and a second appendix describes operational scenarios supported by agent interactions.

No specialized background is needed to absorb the material in this book. The material is relevant to students in aerospace science or engineering, and is a useful source of supplementary material for more advanced engineering courses.

Users Review

From reader reviews:

Sarah Alexander:

This Autonomous and Autonomic Systems: With Applications to NASA Intelligent Spacecraft Operations and Exploration Systems (NASA Monographs in Systems and Software Engineering) book is absolutely not

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