

Advances in Computational Intelligence and Autonomy for Aerospace Systems

Edited by
John Valasek



PROGRESS IN ASTRONAUTICS AND AERONAUTICS

Timothy C. Lieuwen, Editor-in-Chief
Volume 254

Machine Intelligence And Autonomy For Aerospace Systems

**Zhengyu Song,Dangjun Zhao,Stephan
Theil**



Machine Intelligence And Autonomy For Aerospace Systems:

Machine Intelligence and Autonomy for Aerospace Systems Ewald Heer, Henry Lum, 1988 After a brief historical overview chapters discuss the implications of a 1985 Congressional mandate to advance automation and robotics for the Space Station program the human in the control loop and special advanced artificial intelligence areas related to the autonomous operational aspects of s

Advances in Computational Intelligence and Autonomy for Aerospace Systems John Valasek, Timothy C. Lieuwen, 2018 Provides the aerospace researcher and the practicing aerospace engineer with insight into the latest innovative methods and approaches regarding intelligent and autonomous aerospace systems Coverage includes Intelligent Space Systems Intelligent Validation and Verification Methods Intelligent Health Monitoring and Intelligent Flight Control

Management, 1990

Technology for Large Space Systems, 1989 **NASA SP-7500** United States. National Aeronautics and Space Administration,

Advances in Intelligent and Autonomous Aerospace Systems John Valasek, 2012 Research advances in embedded computational intelligence communication control and new mechanisms for sensing actuation and adaptation hold the promise to transform aerospace The result will be air and space vehicles propulsion systems exploration systems and vehicle management systems that respond more quickly provide large scale distributed coordination work in dangerous or inaccessible environments and augment human capabilities Advances in Intelligent and Autonomous Aerospace Systems seeks to provide both the aerospace researcher and the practicing aerospace engineer with an exposition on the latest innovative methods and approaches that focus on intelligent and autonomous aerospace systems The chapters are written by leading researchers in this field and include ideas directions and recent results on intelligent aerospace research issues with a focus on dynamics and control systems engineering and aerospace design The content on uncertainties modeling of large and highly non linear complex systems robustness and adaptivity is intended to be useful in both the sub system and the overall system level design and analysis of various aerospace vehicles A broad spectrum of methods and approaches are presented including Bio Inspiration Fuzzy Logic Genetic Algorithms Q Learning Markov Decision Processes Approximate Dynamic Programming Artificial Neural Networks Probabilistic Maps Multi Agent Systems Kalman particle and confidence filtering

Management, a Bibliography for NASA Managers, 1989

Space Station Systems, 1987

Autonomy and the Human Element in Space, 1985 Autonomy Requirements Engineering for Space Missions Emil Vassev, Mike Hinchey, 2014-08-27 Advanced space exploration is performed by unmanned missions with integrated autonomy in both flight and ground systems Risk and feasibility are major factors supporting the use of unmanned craft and the use of automation and robotic technologies where possible Autonomy in space helps to increase the amount of science data returned from missions perform new science and reduce mission costs Elicitation and expression of autonomy requirements is one of the most significant challenges the autonomous spacecraft engineers need to overcome today This book discusses the Autonomy Requirements Engineering ARE approach intended to

help software engineers properly elicit express verify and validate autonomy requirements Moreover a comprehensive state of the art of software engineering for aerospace is presented to outline the problems handled by ARE along with a proof of concept case study on the ESA s BepiColombo Mission demonstrating the ARE s ability to handle autonomy requirements

High-Reliability Autonomous Management Systems for Spacecraft Jianjun Zhang,Jing Li,2023-08-22 This book examines the autonomous management of spacecraft which uses modern control technologies such as artificial intelligence to establish a remote intelligent body on the spacecraft so that the spacecraft can complete its flight tasks by itself Its goal is to accurately perceive its own state and external environment without relying on external information injection and control or rely on external control as little as possible make various appropriate decisions based on this information and user tasks and be able to autonomously control spacecraft to complete various tasks Divides the autonomous management level of spacecraft into two levels Basic autonomy to meet spacecraft health requirements namely autonomous health management and autonomy of the advanced stage Divides the implementation of spacecraft autonomous management into three aspects Autonomous health management of spacecraft the spacecraft can monitor and sense its own state and can autonomously detect isolate and recover from faults Autonomous mission management the spacecraft can directly receive the mission formulate a reasonable plan according to the current state and working environment of the spacecraft and convert the mission into a specific sequence of instructions Spacecraft autonomous data management the spacecraft processes a large amount of raw data and extracts useful information and autonomously executes or changes flight tasks The autonomous management model of the spacecraft is divided into two points Compatibility the existing traditional control systems belong to the execution layer logic and are compatible with the existing systems Scalability it adopts a layered structure and each layer has different autonomous capabilities

ARTIFICIAL INTELLIGENCE FOR MECHANICAL ENGINEERING Dr. S. SATHEESH KUMAR ,Dr. R. MUTHALAGU,Dr. BHARATH V ,Dr. ANNAPOORNA K, The 21st century has ushered in a technological renaissance with Artificial Intelligence AI standing at the forefront as a catalyst for innovation and transformation across every sphere of engineering Once confined to the realm of computer science AI has now firmly embedded itself in the domain of mechanical engineering redefining how machines are designed manufactured operated and maintained This book Artificial Intelligence for Mechanical Engineering is an endeavor to bridge the gap between classical mechanical principles and modern computational intelligence offering students researchers and industry professionals a comprehensive guide to harnessing AI in this dynamic field Mechanical engineering traditionally grounded in deterministic models and empirical testing is witnessing an unprecedented shift toward data driven adaptive and autonomous systems Whether it is predictive maintenance in industrial plants generative design in product development AI enhanced computational simulations or intelligent robotics in manufacturing the integration of AI has opened new horizons for efficiency precision and innovation This transformation is not merely technological it is philosophical altering the way

engineers perceive problems and conceive solutions The impetus for writing this book arose from a recognition that while AI tools are rapidly advancing their practical adoption in mechanical engineering requires both technical understanding and domain specific adaptation Many existing resources either focus heavily on AI theory without contextual application or on mechanical engineering without adequately exploring AI's potential Our goal is to synthesize these perspectives presenting AI concepts with clarity grounding them in engineering fundamentals and illustrating their use through real world case studies

Technology for Large Space Systems: A Bibliography with Indexes (supplement 21), 1988 NASA *Space Systems Technology Model* United States. National Aeronautics and Space Administration, 1984

The Power of Agentic AI: Redefining Human Life and Decision-Making C. Kishor Kumar Reddy, Shenson Joseph, Herat Joshi, Srinath Doss, Mariya Ouaisa, 2025-09-26 This book explores how autonomous AI systems are reshaping human decision making across various industries and society The book delves into the concept of Agentic AI AI systems that can act independently and make decisions without human intervention Unlike existing literature that speculates about superintelligent systems this book offers practical insights into how current AI systems are already transforming sectors like health care finance and law It highlights the growing impact of these technologies on professional roles and governance offering a balanced view of both the opportunities and challenges presented by AI autonomy The book's findings show that Agentic AI enhances decision making by improving efficiency accuracy and scalability However it also presents ethical concerns related to accountability transparency and the shifting nature of human responsibility in AI mediated environments It emphasizes the need for robust ethical frameworks and governance structures to ensure that AI systems align with human values By focusing on real world applications and current AI technologies the book provides actionable insights for decision makers helping businesses policymakers and technologists navigate the evolving AI landscape It offers a roadmap for understanding the present day capabilities of autonomous systems and prepares professionals for the ethical and operational challenges of integrating these technologies Readers will gain a comprehensive understanding of how Agentic AI is poised to redefine human life and decision making making it essential for anyone interested in the future of technology ethics and innovation Unlike traditional AI which typically requires human supervision or input Agentic AI introduces the concept of autonomy AI systems that can act learn and make decisions independently This paradigm shift challenges the conventional human centered approach to decision making positioning AI as a true partner in complex cognitive tasks The book also explores the ethical and societal implications of AI autonomy in ways that extend beyond typical discussions

[NASA Space Systems Technology Model](#), 1984

Space Station Systems, 1990 *Autonomous Trajectory Planning and Guidance Control for Launch Vehicles* Zhengyu Song, Dangjun Zhao, Stephan Theil, 2023-04-15 This open access book highlights the autonomous and intelligent flight control of future launch vehicles for improving flight autonomy to plan ascent and descent trajectories onboard and autonomously handle unexpected events or failures during the flight Since the beginning of the twenty first century space

launch activities worldwide have grown vigorously. Meanwhile commercial launches also account for the booming trend. Unfortunately the risk of space launches still exists and is gradually increasing in line with the rapidly rising launch activities and commercial rockets. In the history of space launches propulsion and control systems are the two main contributors to launch failures. With the development of information technologies the increase of the functional density of hardware products, the application of redundant or fault tolerant solutions and the improvement of the testability of avionics, the launch losses caused by control systems exhibit a downward trend and the failures induced by propulsion systems become the focus of attention. Under these failures the autonomous planning and guidance control may save the missions. This book focuses on the latest progress of relevant projects and academic studies of autonomous guidance especially on some advanced methods which can be potentially real time implemented in the future control system of launch vehicles. In Chapter 1 the prospect and technical challenges are summarized by reviewing the development of launch vehicles. Chapters 2 to 4 mainly focus on the flight in the ascent phase in which the autonomous guidance is mainly reflected in the online planning. Chapters 5 and 6 mainly discuss the powered descent guidance technologies. Finally since aerodynamic uncertainties exert a significant impact on the performance of the ascent landing guidance control systems, the estimation of aerodynamic parameters which are helpful to improve flight autonomy is discussed in Chapter 7. The book serves as a valuable reference for researchers and engineers working on launch vehicles. It is also a timely source of information for graduate students interested in the subject.

Artificial Intelligence for Space: AI4SPACE Matteo Madi, Olga Sokolova, 2023-12-18. The new age space value chain is a complex interconnected system with diverse actors which involves cross sector and cross border collaborations. This book helps to enrich the knowledge of Artificial Intelligence AI across the value chain in the space related domains. Advancements of AI and Machine Learning have impactfully supported the space sector transformation as it is shown in the book. This book embarks on a journey through the fascinating realm of AI in space exploring its profound implications, emerging trends and transformative potential. Prof. Dr. Oliver Ullrich, Director, Innovation Cluster Space and Aviation, UZH Space Hub, University of Zurich, Switzerland. Aimed at space engineers, risk analysts, policy makers, technical experts and non specialists, this book demonstrates insights into the implementation of AI in the space sector alongside its limitations and use case examples. It covers diverse AI related topics applicable to space technologies or space big data such as AI based technologies for improving Earth Observation big data, AI for space robotics exploration, AI for astrophysics, AI for emerging in orbit servicing market and AI for space tourism safety improvement. Key Features: Provides an interdisciplinary approach with chapter contributions from expert teams working in the governmental or private space sectors with valuable contributions from computer scientists and legal experts. Presents insights into AI implementation and how to unlock AI technologies in the field. Up to date with the latest developments and cutting edge applications.

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,1995-05

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