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Editorial Message

Welcome to the inaugural issue of the Journal of Aviation Technology and AI Research (JATAIR). This issue highlights the growing impact of artificial intelligence, machine learning, and emerging technologies in aviation. We aim to provide a platform for researchers, educators, and industry professionals.

Artificial Intelligence Applications in Aircraft Maintenance

Author: Manikanda Gopalan S

Abstract

This paper discusses predictive maintenance, fault detection, maintenance optimization, benefits, challenges, and future prospects of AI in aircraft maintenance.

Keywords: Aviation, AI, Technology, Research

Conclusion: The study highlights significant opportunities for innovation and future research in aviation technologies.

Machine Learning Techniques for Flight Delay Prediction

Author: Shakila G

Abstract

This paper examines machine learning approaches used to predict flight delays and improve airline operational efficiency.

Keywords: Aviation, AI, Technology, Research

Conclusion: The study highlights significant opportunities for innovation and future research in aviation technologies.

Emerging Trends in Aviation Technology and Autonomous Aircraft Systems

Author: Priya Angel G

Abstract

This paper reviews autonomous aircraft systems, intelligent navigation technologies, and future developments in aviation.

Keywords: Aviation, AI, Technology, Research

Conclusion: The study highlights significant opportunities for innovation and future research in aviation technologies.