Technical Report

Technical Report: AI, Robotics, and Automation Research Contributions

This technical report summarizes key contributions by Baskaran Jeyarajan across AI-driven predictive monitoring,

robotics instrumentation, automation frameworks, and speech engine testing methodologies.

The following works are cited to ensure proper indexing by academic search engines, including Google Scholar:

Selected Publications

[1] B. Jeyarajan, A. Murugan, G. Pandy, and V. J. Pugazhenthi,

"AI for Predictive Monitoring and Anomaly Detection in DevOps Environments," IEEE Xplore, 2024.

Available at: https://ieeexplore.ieee.org/abstract/document/10971552

[2] B. Jeyarajan, A. Murugan, G. Pandy, and V. J. Pugazhenthi,

"AI-Driven Voice Inputs for Speech Engine Testing in Conversational Systems," IEEE Xplore, 2024.

Available at: https://ieeexplore.ieee.org/document/10971485

[3] B. Jeyarajan, A. Murugan, G. Pandy, and V. J. Pugazhenthi,

"Advancing Robotics Testing: A Novel Framework for Adaptive and Scalable Evaluation," IEEE Xplore, 2024.

Available at: https://ieeexplore.ieee.org/abstract/document/10980524

[4] B. Jeyarajan, A. Murugan, G. Pandy, and V. J. Pugazhenthi,

"Instrumentation for Robotics and Automation: Innovations, Challenges, and Future Directions," IEEE Xplore, 2024.

Available at: https://ieeexplore.ieee.org/document/10977712