

# Synergy of Robotics and IoT Monitoring in Industries Using Deep Resnets

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19  
Full  
Text Views



Abstract
Document Sections
I. Introduction
II. Literature Survey
III. Proposed Method
IV. Experimental Results
V. Conclusion

<a href="#">Authors</a>
<a href="#">Figures</a>
<a href="#">References</a>
<a href="#">Keywords</a>
<a href="#">Metrics</a>

**Abstract:**  
This paper explores the synergistic integration of robotics and Internet of Things (IoT) monitoring within industrial settings, employing Deep Residual Networks (Deep ResNets). The convergence of robotics and IoT has the potential to revolutionize various industries by enabling efficient data collection, real-time analysis, and informed decision-making. Deep ResNets, known for their exceptional feature extraction capabilities, further enhance the fusion of these technologies. In this study, we delve into the collaborative framework of robotics and IoT, elucidating how Deep ResNets bolster the process. We discuss the benefits of this integration, including optimized resource allocation, predictive maintenance, and adaptable production systems. Through empirical analysis, we demonstrate the efficacy of Deep ResNets in handling complex data from integrated robotics and IoT sources. Ultimately, this research sheds light on the transformative impact of amalgamating robotics, IoT monitoring, and Deep ResNets, paving the way for intelligent and responsive industries.

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