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ROBOTICS & AUTOMATION

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Paper No.	Title	Page No.
P-24	Research paper on cloud computing Mrs. A. Kalaiselvi, Mr. T. Manoj Prabakaran	248
P-25	Machine Learning's Dominance in the AI Industry: Revolutionizing Healthcare with Virtual Reality Dr. R. A. Vinoth Kumar, M. Anbunesan	255
P-26	Image Processing Rajasekaran. P	260
P-27	Automated Soil Moisturizer for Agriculture Dr. A.Vijayakumar	268
P-28	A Study on Artificial Intelligence and Robotics' Potential Applications in Healthcare Ms. K. P Maheswari, Ms V. M. Divya Dharshini & Ms J. Heena Ali &	274
P-29	BIG Data Loss Prevention Technologies Mr. T. Manoj Prabakaran, Mrs. A. Kalaiselvi	280
P-30	A Study on Influencing Factors on Customer Relationship Management in Garments Retailing in Tamil Nadu Dr. A. Paul Magesh	284
P-31	Overview of Artificial Intelligence with Mechatronics Mr. Anthony C	292
P-32	A Study on Human Resource Information System in Organisation Dr.S.Sridhar, Mr.D.Suresh	296
P-33	The Evolution of Ai In Robotics: A Comprehensive Review Ms. S.Nirmala Devi, Ms. P.Felixya Merlin & Ms. N.Lavanya	302
P-34	Driving Business Development through Robotic Process Automation: A Case Study of UiPath and Industry Applications M. Anbunesan, Dr. R. A. Vinoth Kumar	310
P-35	Challenges Using Auotmation in the Manufacturing Industry: Strategies for Overcoming Obstacles Dr.J.Prawin	316
P-36	Digital Inclusion and Economic Growth S. Henri Rita Mary, R. Ruth Rebecca	320

The Evolution of Ai In Robotics: A Comprehensive Review

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Abstract

This paper delves into the symbiotic relationship between artificial intelligence (AI) and robotics, exploring their evolution, current state, and future prospects. Beginning with the historical roots of AI and robotics, this paper traces the advancements that have led to the integration of AI techniques into robotic systems. This paper analyses the key applications, challenges, and ethical considerations associated with AI-driven robotics, providing insights into how these technologies are reshaping industries and society. Furthermore, this paper discusses regarding the emerging trends and potential avenues for further research and development in the dynamic AI field.

Keywords – AI, Robotics, Applications

I. INTRODUCTION

The combination of AI and robotics has the potential to revolutionize work responsibilities across various industries, from automating routine tasks within factories to introducing flexibility and learning capabilities into tedious applications. The potential uses of AI in robotics are vast and varied, making it an exciting field to explore and understand.

A. About Robotics: -

Robotics is a field that deals with the creation and designing of these mechanical humans. And Robotics these days is not only restricted to the mechanical and electronics domain. Nowadays, robots are becoming 'smarter' and more efficient with the help of computer science.

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