DHANALAKSHMI SRINIVASAN

COLLEGE OF ENGINEERING AND TECHNOLOGY

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List of Patents Published

S. No	Faculty Name	Department	Patent Title	Patent Publication Number	Patent Published Date
1	Ms.J.Rajasubha,	CSE	Dynamic AI-driven sensor coordination and optimization for enhanced data accuracy in smart city IOT infrastructures.	202441003647 A	09/02/2024
	Mr. E.Dilipkumar	MCA			
2	Ms. K.Senbagam,	CSE	Solar assisted robot by machine learning.	202441039598 A	31/05/2024
	Ms. S.Uma	CSE			

PRINCIPAL

(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : DYNAMIC AI-DRIVEN SENSOR COORDINATION AND OPTIMIZATION FOR ENHANCED DATA ACCURACY IN SMART CITY IOT INFRASTRUCTURES

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(57) Abstract :

Abstract The Dynamic AI-driven Sensor Coordination and Optimization for Enhanced Data Accuracy in Smart City IoT Infrastructures is a groundbreaking system designed for the continuous improvement of sensor networks in smart city environments. Leveraging artificial intelligence, the system dynamically adjusts sensor configurations in real-time, ensuring optimal performance in response to changing environmental conditions, sensor degradation, and evolving city dynamics. The integration of a continuous learning mechanism refines the system's coordination strategies over time, enhancing its adaptability and decision-making capabilities. Compatible with diverse sensor types and seamlessly integrating with existing smart city infrastructures, the invention offers a comprehensive solution for improving data accuracy, reliability, and efficiency. The system's applications are wide-ranging, from traffic management to environmental monitoring, making it a pivotal advancement for the sustainable and intelligent development of smart cities.

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(57) Abstract :
Abstract - This prototype unveils "Red Rover 20," a solas-powered robot designed to conquer the Martian frontier. Fueled by the sun and empowered by machine learning, Red Rover 20 pushes the boundaries of autonomous exploration. . Sun-Savvy Survivor: The robot leverages machine learning to become a solar energy master. By constantly leaking from real-time sunlight levels, it optimizes power consumption, maximizing exploration time on a single charge. 0 Terrain Tamer: Martian landscapes are no match For Red Rover 2.0'5 machine learning prowess. Through image recognition and path planning algorithms, the robot navigates treacherous rocks, craters, and sand dunes with ease. , . Martian Sherlock: Equipped with advanced sensors, Red Rover 2.0 doesn't just traverse; it analyzes. Machine learning algorithms sift through collected data, searching for potential signs of water ice or methane deposits, uncovering the secrets Mars holds. Red Rover 2.0 embodies the future of autonomous exploration. This prototype paves the way for a new generation of solas-powered robots, powered by machine learning, ready to unlock the mysteries ofthe Red Planet and beyond.

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