SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

LITRATURE SURVEY

IoT devices turn this model on its head by using smart trash bins to detect location, temperature, and fill level in real time, and this data is then used to plan optimal collection routes, resulting in an efficient pickup process that saves fuel as well as manpower.

YEAR	TITLE	AUTHOR	ADVANTAGES	DISADVANTAGES
2022 Indian Institute of Information Technology Tiruchirappalli	Design and development of smart *Internet of Things*–based solid waste management system using computer vision	Mookkaiah Senthil Sivakumar, Thangavelu , Hebbar Rahul, Haldar Nipun, · Singh Hargovind .	Reduces the amount of waste accumulated in landfills unsegregated. proposed model can mitigate the harmful effects on the environment due to the improper disposal	Moderate accuracy Classification of waste is performed in the cloud which use to provide a long evaluation time.
2021 Netaji Subhas Institute of Technology	Analysing Challenges to Smart Waste Management for a Sustainable Circular Economy in Developing countries	Umang Soni, Girish Kumar, Honey Yadav	A smart waste management model presented to empty the waste collection bin using sensors. The higher size bins are compatible with wheelie bins	Sensor nodes used in the dustbins have limited memory size. The training has to be provided to the people involved in the smart waste

			available around the world.	management system.
2020 IJITEE	An *IoT* enabled Smart Garbage Management System for Smart Cities	Vibin Mammen Vinod, K. S. Tamilselvan, Visvapriya P., Vishnu Devi , Thiruselvam C. S.	Improves the efficiency of waste disposal management, by alerting the municipality system can be adapted in all areas because of its reliability,	Due to economic developments, the globally developed wastes are increasing.
2019 ANR0 School of Mechanical Sciences, Hindustan Institute of Technology and Science, Chennai	*IoT* Enabled Smart Waste Bin with Real Time Monitoring for efficient waste management in Metropolitan Cities.	Manju Mohan, RM.Kuppan Chetty, Vijayram Sriram, Mohd Azeem, P. Vishal and G. Pranav.	Real time information on the fill level of the dustbin. Improves Environment quality -Fewer smells - Cleaner cities. Effective usage of dustbins	Unhygienic Environment and look of the city. Time consuming and less effective: trucks go and empty containers whether they are full or not.
2018 Terna Engineering college, Mumbai.	A Survey on Garbage Collection and Monitoring System for Smart cities using IOT	Shraddha Thakur, Varsha Devkule, Neha shinde, Sayli Bhambre	Intelligent management of the services in the city. Deployment of dustbin based on the actual needs.	High costs. More traffic and Noise.

2019 Khalid University	Smart Waste Management System for Crowded area	Rasha Elhassan, Mahmoud Ali Ahmed and Randa AbdAlhalem	A reduction in the number of waste bins needed. Analytics data to manage collection routes and the placement of bins more effective	o high initial cost due to expensive smart dustbins compare to other methods. Sensor nodes used in the dustbins have limited memory size.
2017 NMAM Institute of Technology, Karnataka.	Smart waste management using Internet of Things	K N Fallavi V Ravi Kumar B M Chaithra	Low power consumption with fast start-up Easier to use	It reduces man power requirements which results into increase in unemployment for unskilled people. Limited amount of flash memory

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