**LITERATURE SURVEY :**

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| **S.No** | **Paper name** | **Author name** | **Published year** | **Abstract** |
| 1 | Design and Implementation of Smart Home Control Systems Based on Wireless Sensor Networks and Power Line Communications | Mingfu Li; Hung-Ju Lin | 10 December 2014 | Wireless sensor networks (WSNs) and power line communications (PLCs) are used in this work to implement a smart home control network. The goals are to reduce the impact of wireless interference on a smart home control network and the unnecessary energy consumption of a smart home. |
| 2 | Design of smart bin for smarter cities | Hitesh Poddar; Rituraj Paul; Sourangsu Mukherjee; Budhaditya Bhattacharyya | 04 January 2018 | A smart city is incomplete without a Smart Waste Management System and in this paper, we have presented an Integrated Platform for Waste Management where smart bins are equipped with a network of sensors and transmit real-time data indicating the fill percentage of the bin. |
| 3 | Status and challenges of municipal solid waste management in India: A review | Rajkumar Joshi; Sirajuddin Ahmed; Carla Aparecida Ng | 17 February 2016 | The study concludes that the installation of decentralized solid waste processing units in metropolitan cities/towns the and development of a formal recycling industry sector is the need of the hour in developing countries like India |
| 4 | IoT Enabled Smart Waste Bin with Real-Time Monitoring for efficient waste management in Metropolitan Cities | Manju Mohan;  Kuppan Chetty Ramanathan;  Vijayram Sriram;  Mohd Azeem;  P Vishal;  G Pranav | 30 September 2019 | The capacitance sensor in the bin continuously monitors the level of the bin in real-time and communicates to the central cloud where the bins are connected. The ultrasonic sensor is used to open and close the lid of the bin whenever persons are nearby the bin. |
| 5 | An approach for  monitoring and smart planning of urban solid waste  management using the smart-M3 platform | Vincenzo Catania; Daniela Ventura | 07 August 2014 | The context of smart waste management requires interconnection among heterogeneous devices and data sharing involving a large number of people. Waste collection is made by real-time monitoring of the level of the bin's fullness through sensors placed inside the containers. |
| 6 | Concept, Design, and Implementation of Automatic Waste Management System | Adil Bashir, Shoaib Amin Banday, Ab. Rouf Khan, Mohammad Shafi | 31 July 2013 | The system consists of four main subsystems namely Smart Trash System (STS), Local Base Station (LBS), Smart Vehicle System (SVS), and Smart Monitoring and Controlling Hut (SMCH). The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process. |
| 7 | IoT-Based Solid Waste Management Solutions: A Survey | Kellow Pardini ;  Joel J. P. C. Rodrigues;  Sergei A.Kozlov;  Neeraj Kumar; Vasco Furtado | 1 January 2019 | The Internet of Things (IoT) and cloud computing offer an automation possibility through cyber-physical systems that will change the way solid waste management is performed. |
| 8 | Sensor-Based Solid Waste Handling Systems: A Survey | Vishnu Suresh;  Jino Ramson;  M. S. S. Rukmini; Adnan M. Abu-Mahfouz | 18 March 2022 | IoT-based systems are superior to other design approaches, and LoRa WAN is identified as the preferred communication protocol for the automation of solid waste handling systems in urban areas. |
| 9 | IoT-Enabled Solid Waste Management in Smart Cities | S. Vishnu ;  S. R. Jino Ramson;  Samson Smith;  Theodoros Anagnostopoulos;  Adnan M. Abu-Mahfouz; | 14 July 2021 | An intelligent Graphical User Interface (GUI) enables the waste collection authority to view and evaluate the unfilled status of each trash bin. |
| 10 | Applications of the Internet of Things (IoT) in Smart Logistics: A Comprehensive Survey | Yanxing Song;  F. Richard Yu;  Li Zhou; Xi Yang;  Defang He | 28 October 2020 | As one of the important technologies of modern information and communication technology (ICT), the Internet of Things (IoT) can create oceans of data and explore the complex relationships between the transactions represented by these data with the help of various mathematical analysis technologies. |
| 11 | Smart waste management system | Shyamala S.C, Kunjan Sindhi, Vishwanath Muddy, Chitra C N | September 2016 | The information from bins  to the authorized number is sent using communicating  modules (GSM/GPRS module). The entire operation is  controlled using an Atmega328P 8-bit microcontroller. This  report showcases a potential design for an IoT gateway  that can be used to provide a framework for a smart  waste management system. |
| 12 | Designing an integrated municipal solid waste management network: A case study | Arsalan Yousefloo;  Reza Babazadeh | October 2019 | Traditional waste disposal methods bring many problems, such as air pollution, groundwater contamination, soil contamination, and greenhouse gas emissions, and endanger the infrastructure of communities. Optimal waste management reduces waste production, social and environmental problems associated with waste |
| 13 | Optimal planning of municipal solid waste management systems in an integrated supply chain network | Maryam Mohammadi;  Sirkka-Liisa JamsaJounela;  I. Harjunkoski | April 2019 | Waste management can be considered as a strategic supply chain problem as it involves waste generation, collection, separation, transportation, treatment, distribution, and disposal. |
| 14 | The impact of an efficient collection sites location on the zoning phase in municipal solid waste management | Gianpaolo Ghiani; Andrea Manni; Emanuele Manni; Massimiliano Toraldo | June 2014 | Computational results on data related to a real-life instance show that an efficient location is fundamental in achieving consistent monetary savings, as well as a reduced environmental impact. These reductions are the result of one vehicle less needed to perform the waste collection operations, and an overall traveled distance reduced by about 25% on average. |
| 15 | Models and Algorithms for the Integrated Planning of Bin Allocation and Vehicle Routing in Solid Waste Management | Vera C. Hemmelmayr; Karl F. Doerner;  Richard F. Hartl;  Daniele Vigo | January 2012 | The problem of designing a collection system consisting of the combination of a vehicle routing and a bin allocation problem in which the trade-off between the associated costs has to be considered. |