

## **Leveraging Internet of Things (IOT) technology in sustainable outdoor furniture design**

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### **Abstract**

With the advent of new technologies that are developing unusually, it has greatly affected the design of outdoor furniture, as it makes it different from what is known in its traditional form, and in light of the urgent need to preserve the environment when planning new cities and the impact of the abnormal development of technology in the few years The past on the production of outdoor furniture, and what about its service to users of central public areas. Hence the problem of the research, which is the lack of outdoor furniture design for public areas, the use of new technology, the Internet of Things (IOT) to achieve the principles of sustainability and taking into account the environmental aspects. The research assumes that new technology and the manufacture of sustainable outdoor furniture affect the spaces of central public areas and lead to the emergence of modern vocabulary when planning new cities, such as the Internet of Things (IOT) technology to produce environmentally friendly outdoor furniture and provide many services to users of central public areas, and also serve decision makers by monitoring many Information and self-analysis for a better quality of life.

The research found that the use of the surrounding environment as information to provide functions and comfort to its users, this is done by designing sustainable outdoor furniture based on new technology techniques, the Internet of Things (IOT), which controls many applications aimed at taking into account the environmental aspect, and maximizing the role of cities Smart in a concept that aims to improve the quality of life through applications that allow users to smart services to raise the efficiency of operations and services, as well as discover the vocabulary of the elements of the outdoor space and the use of smart outdoor furniture in adding more valuable information about the different places and locations of the users, functions and comfort as well for them, through Intelligent applications serve both users and decision-makers.

### **Keywords:**

Smart cities – Smart Cities Applications – Smart Furniture – Internet of things (IOT) technology – sustainability - Sustainability of outdoor furniture design.