

Developments in 5G Technology for Smart Cities

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Abstract. 5G technology is set to revolutionize smart cities by enabling faster and more reliable communication networks. This article reviews the latest developments in 5G infrastructure, focusing on its application in smart city environments. The study highlights how 5G can enhance connectivity, improve data management, and support the integration of IoT devices, ultimately contributing to more efficient and sustainable urban living.

Keywords: 5G Technology, Smart Cities, Connectivity, IoT, Urban Development

Introduction

The advent of 5G technology marks a significant milestone in the evolution of smart cities. With its unparalleled speed and connectivity, 5G promises to transform urban environments by facilitating real-time data exchange and seamless integration of IoT devices. This paper explores the current state of 5G infrastructure development and its implications for smart city applications. We discuss the benefits of 5G in enhancing urban connectivity, data management, and sustainability. Additionally, the paper addresses the technical and regulatory challenges that must be overcome to fully realize the potential of 5G in smart cities.

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