

Low-noise energy-saving communication sites for smart cities





Low-noise energy-saving communication sites for smart cities

Communication, sensing, computing and energy

Therefore, providing continuous energy to these devices and ensuring their efficient sensing and communications are critical for the wide

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Empowering smart city through smart grid communication and

Abstract In smart cities, reliable, energy-efficient power supply is crucial, highlighting the need for smart grids (SGs). Continuous advancements have enhanced grid resilience, precision, and

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Energy-Efficient Protocols for IoT-Based Smart Cities

The proposed amendments further develop an integrated and multidisciplinary modal framework for designing and deploying energy-efficient IoT systems in smart cities so that social inclusivity can

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Energy-Saving Routing Protocols for Smart Cities

In this work, we describe and evaluate the energy consumption of routing protocols for WSN-based Smart Cities applications in LoRa-based mesh networks, then propose a novel energy-saving

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ETASR TEMPLATE

This study addresses the necessity of optimizing energy-efficient communication protocols for IoT devices in smart city environments. It emphasizes the balance between



maintaining robust and

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Communication Technologies and Their Contribution to

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Leveraging artificial intelligence to enable sustainable

This paper presents a comprehensive framework that leverages artificial intelligence to drive data-informed decisions in smart cities, ultimately

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Optimizing Energy-Efficient Routing Protocols For Scalable IoT

In this context, this research aims to investigate, design, and optimize energy-efficient routing protocols specifically tailored for scalable IoT networks in smart cities.

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LoRaWan: Low Cost Solution for Smart Cities

ALoRaWan is an emerging network technology that stands out for having characteristics such as long range capability, low power consumption and low cost, and focuses on sensing, thus

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Networking Architectures and Protocols for IoT

The networking requirements and characteristics of smart city applications (SCAs) are identified in this study, as well as the networking

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Smart city technology for a more liveable future , McKinsey

Smart cities change the economics of infrastructure and create room for partnerships and private-sector participation Smart-city technologies help

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Sensing, Communication with Efficient and Sustainable Energy

In this research, various methods and tools that reduce energy consumption in these



networks have been studied.

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Green communication approach for the smart city using renewable

It presents a mixed adaptable ability and energy method to properly allot capacity and energy in streaming video in IoT-enabled smart cities for a greener and sustainable environment.

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Empowering smart city through smart grid communication and

This paper explores the role of advanced communication techniques in SGs, focusing on how technologies like IoT sensors and smart meters enhance energy distribution, promote

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Smart energy systems for sustainable smart cities: Current developments

Reliable, efficient and low carbon energy supply is one of the key requirements for next generation smart cities . The close proximity of multiple energy vectors like electric power, heat

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Communication, sensing, computing and energy harvesting in smart cities

A smart city provides diverse services based on real-time data obtained from different devices deployed in urban areas. These devices are largely battery-powered and widely placed. Therefore, providing

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Innovative Approaches for Noise Management in Smart Cities



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We also present our insights on the development trends of intelligent noise mapping for smart cities. Finally, we identify four critical open issues and discuss our insights to address these

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Energy-Efficient Communication Protocols for Low-Power IoT

The development of smart cities will depend heavily on the employment of Internet of Things (IoT) technologies that provide real-time data collection and intelligent services. IoT devices utilized in



(PDF) Optimizing Energy-Efficient Communication

In the context of optimizing energy-efficient communication protocols for IoT devices in smart cities, this research addresses the pressing need for

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Communication, sensing, computing and energy harvesting in smart cities

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