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Abstract:

Rapid urbanization creates new challenges and issues, and the smart city concept offers opportunities to rise to these challenges, solve urban problems and provide citizens with a better living environment. This paper presents an exhaustive literature survey of smart cities. First, it introduces the origin and main issues facing the smart city concept, and then presents the fundamentals of a smart city by analyzing its definition and application domains. Second, a data-centric view of smart city architectures and key enabling Technologies is provided. Finally, a survey of recent smart city research is presented. This paper provides a reference to researchers who intend to contribute to smart city research and implementation.

Relevância e comentários:

Esse artigo possui alta relevância, dado que, além de um compilado de informações de mais de 100 outros conteúdos de valor médio/alto, trata de conceitos necessários para o entendimento do conceito geral cidade inteligente.

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Abstract:

In this article, smart cities are characterized with factors like their people, transportation, technology, buildings, economy, environment, parking, and governance. The measures and future outlooks of smart cities are also described whilst not undermining both benefits and challenges that are associated with smart cities. Proponents of smart cities must select the transformation strategy that helps them realize their ambition.

Relevância e comentários:

Relevância alta, trata de métricas de avaliação e apresenta algumas 'soluções' tratadas em cidades inteligentes.

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Abstract:

Cities are contemporary metropolises that concentrate human and social activity; engineered to support and develop the physical environment and the people within it, Smart cities, we are led to believe, are the immediate future, where smartness is perceived as a characterisation of advancements or digitalisation, in government, mobility and sustainability. Therefore it is not surprising that many organisations are marketing their smart solutions and products, often to a ubiquitous extent and so called smart cities are striving to outperform each other. But how are smart cities actually being defined and how is performance being measured in an era where there is increasing access to unprecedented amounts of foreseen data? This paper identifies the plethora of the smart city definitions and categories evidenced from the literature and shows that 'Smart cities' lacks a robust coherent definition, with many contradicting facts within what constitutes a smart vision. Notably, almost every attempt from organisations, the European Union or cities themselves has failed to define 'smart' in objective terms that can be accepted globally. Certainly, they all are negotiating with a range of descriptors and smart ways to improve the city. Even the UK's attempts to develop a clear definition and set of standards for smart cities (i.e. PAS 180 and PAS 182) appears to suffer from fundamental differences in how the semantic content of a 'smart' city is defined. This paper demonstrates the necessity for a single 'Smart Cities' definition that deals with both the physical and digital using shared parameter value(s) that can be adopted and scaled amongst different localities and within a range of urban contexts adjusting according to existing city condition(s) and vision(s) setting the paradigm for further innovative research in this area.

Relevância e comentários:

Relevância media, trata dos paradigmas e dos conceitos, mas não apresenta métricas de interesse (comparando os artigos anteriores no caso).

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Helping CIOs understand “smart city” initiatives. Growth, 17(2), 1-17.

Abstract:

In order to make cities more livable in all respects, the interest in the 'smart city' is
increasing day by day in policy-making studies and scientific research on the use of digital
technologies. The concept of sustainable smart development contains another fundamental issue
at this point, but these two concepts are intertwined. This concept seems very attractive in terms
of producing pragmatic and applicable solutions for cities. However, at this point, we see that
the existing infrastructures of the cities come to the fore. We see that the existing infrastructures
in cities that develop economically and socially are generally much more advanced technology
and more broadcast. But, the situation is different in developing cities. Infrastructure is one of
the most basic arguments for a city plan. In particular, in order to define a smart city, it is based
on equipping the existing residential area with advanced information and communication
technologies and the effective use of information networks by citizens. According to a common
definition, smart cities are the development of sustainable urbanization using information and
communication technologies, based on technical systems that can create solutions to the
problems of the city. We can consider a smart city as an organic structure that connects multiple
subsystems and components. There are some clear criteria for this organic structure. According
to these criteria; The six components determined as “smart environment, smart management,
smart economy, smart life, smart society and smart transportation” are shown as the basic
components that smart cities should have. The data obtained from these six components will
only enable us to increase productivity and urban living standards when evaluated from a
holistic perspective. In this respect, it is important to reveal what the expressed components
contain in terms of understanding the concept of the smart city.
In this study, through a wide literature review and observation; by revealing the basic
components that smart cities should have, it was tried to be explained by evaluating the

important issues that these components indicate.

Relevância e comentários:

Alta relevância, apresenta soluções, conceitos, desafios e problemas das cidades inteligentes de maneira pratica e de simples entendimento.

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