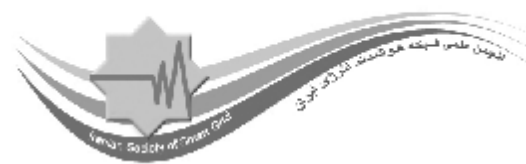




سخنرانی های علمی

پژوهشگاه دانشهای بنیادی
پژوهشکده علوم کامپیوتر



Smart cities: Drivers and Components

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Abstract

The concept of “smart city” has attracted a lot of attention in recent years. Smart cities are considered as innovation drivers in areas such as health, environment, energy management, and business. The concept of smart cities captures different meanings and we should look beyond a marketing push for marketing purposes.

As a strategic device to create modern urban production factors in a common framework, importance of Information and Communication Technologies (ICTs) needs to be highlighted. It is through ICT that smart cities are truly turning “smart”. This is being facilitated by means of services that use, among others, networked sensors and actuators deployed in the city, allowing the monitoring of the urban environment in real-time, to react just in time if needed and to establish automated control processes with less or even without human intervention.

The ICT sector can also facilitate smart services which are reliant on data-gathering technologies in the field, “Big Data”-processing technologies in the cloud, and citizens using these technologies. Big data, collected from the crowd or sensors, provides unprecedented opportunities to optimize operations in a city and thus improve urban living. Therefore there is a demand for advanced Internet scale open and user driven innovation environments.

The aim of this talk is to explore the challenges, issues of the innovative technologies that drive their smart home strategies and the digital impacts of smart city eco-system. This talk highlights the shift in industries servicing the cities; the importance of big data –the oil of the 21st century; and the inevitability of keeping the human in the loop. This talk can be useful for industry and governing bodies and inspiring for researchers and academics alike.

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