
The impressibility of the Islamic Republic of Iran's Political organization of space development of Cyberspace

hoseyb shafaeiyeh najjaar*,

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The Internet of Things (IoT) is the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these objects to connect and exchange data.[1][2][3] Each thing is uniquely identifiable through its embedded computing system but is able to inter-operate within the existing Internet infrastructure. The figure of online capable devices increased 31% 2016 to 8.4 billion in 2017.[4] Experts estimate that the IoT will consist of about 30 billion objects by 2020.[5] It is also estimated that the global market value of IoT will reach \$7.1 trillion by 2020.[6] The IoT allows objects to be sensed or controlled remotely across existing network infrastructure,[7] creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention.[8][9][10][11] When IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, virtual power plants, smart homes, intelligent transportation and smart cities. "Things", in the IoT sense, can refer to a wide variety of devices such as heart monitoring implants, biochip transponders on farm animals, cameras streaming live feeds of wild animals in coastal waters,[12] automobiles with built-in sensors, DNA analysis devices for environmental/food/pathogen monitoring,[13] or field operation devices that assist firefighters in search and rescue operations.[14] Legal scholars suggest regarding "things" as an "inextricable mixture of hardware, software, data and service".[15] These devices collect useful data with the help of various existing

technologies and then autonomously flow the data between other devices.[16] There seems to be a general consensus that term "the Internet of things" was coined by Kevin Ashton of Procter & Gamble, later MIT's Auto-ID Center, in 1999.[17] The first written and referable source that mentions the Internet of Things seems to be the White Paper published by the MIT Auto-ID Center in November 2001 [18] (but made public only in February 2002), which cites an earlier paper October 2000.[19] The first research article mentioning the Internet of Things appears to be,[20] which was preceded by an article published in Finnish in January 2002.[21] Contrary to the rather RFID and Supply Chain Management view of the Internet of Things, the vision of the Internet of Things presented there was closer to the modern one, i.e. an information system infrastructure for implementing smart, connected objects.[22]

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