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Internet of Things (IoT) and its application in oil industry

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Remote monitoring/controlling the events and objects (things) have been very much attractive today. Internet of Things is new in the wireless communications technologies. Things will be controlled through the user equipment (UE/smart phone) or personal computers (PC) through the wireless networks technologies. Main players in IoT are sensors and wireless networks such as GSM, 3G, HSPA+, LTE, LTE-A and WiFi. Things are embedded with smart sensors which are equipped with transceivers that sense the environment, acquire the data and transmit it to UE/PC for evaluation. In oil industry, pressure, temperature, flow and liquid altitude are important parameters which IoT is able to control and manage them fully. IoT enhances the productivity and reduce the cost in the installing and operation phases. Besides, field engineers will be enabled to monitor the processes and make in time decisions. Thus in this lecture, we introduce the IoT firstly, describe its application in oil industry secondly and finally off the shelf electronics elements for controlling the oil processes.

Biography

Jahangir Dadkhah Chimeh received his BSC from Sharif University of Technology in 1988 and his MS from KNT University of Technology both in Tehran/Iran in 1994. He received his PhD in Telecommunication Engineering from Islamic Azad University, Science and Research Branch, Tehran. Besides, he is Assistant Professor in Iran Telecommunication Research Center (ITRC). He was Project Manager of 3G and 5G mobile projects respectively in 2005 and 2014 in ITRC and has some papers and two books in the mobile communications field.

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