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Wireless sensor networks and its applications in surveillance

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Recent advances in wireless networks sensors (WSN) have greatly encouraged their use in many applications of monitoring such as the environmental, health, forest fire, smart home or even the power grid control and irrigation of the fields of agriculture. Several parameters can be captured, treated and transmitted by a WSN as gas, temperature, humidity, motion of presence. The challenges arising from these applications are the subject of several themes of scientific research. These challenges, as well as technical developments that happened to help remedy this, will be the subject of this presentation. Several other recent technologies such as the internet of things associated with wireless sensor networks can give a plus to these achievements. This presentation will provide a technical assessment of each of the technology mentioned. We will also present our recent research results in the areas of smart irrigation using wireless sensor networks and the internet of things and the monitoring of the smart grid for security reasons. We end this presentation by an overview on our ongoing projects and those planned for the future.

Biography

Khelifa Benahmed has done his research for PhD degree in the field of Wireless Sensor Networks at the School of Computing and Mathematical Sciences at Liverpool John Moores University, UK. He has 26 years of experience in education and research at the University Tahri Mohamed Bechar, Algeria. He has several international publications in the fields: Wireless sensor networks, security, surveillance, smart grid, internet of things, and smart irrigation. He holds Engineer, Magister degrees and PhD in Computer Sciences from University of Oran, Algeria.

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