

The 20th IEEE International Conference on Industrial Technology (ICIT), Melbourne, Australia, 13-15 February 2019

A review of wireless sensor network localisation based on software defined networking

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<https://ieeexplore.ieee.org/abstract/document/8755075>

Abstract

A strong relationship exists between the relevancy of sense data and the location of the data's origin. Current methods for localisation are too demanding on the resources of constrained devices or have high estimation errors. Software Defined Networks has the potential to offload computational and power draw requirements of localisation techniques into the controller of the network. This paper explores, categorises and discusses the strengths and weaknesses of current localisation techniques in Wireless Sensor Networks. With this in mind, the Software Defined Wireless Sensor Networking paradigm for localisation is introduced and discussed comparing some of the latest works which has been done in literature. This discussion shows that the Software Defined Wireless Sensor Network paradigm can increase network lifetime and the accuracy of localisation algorithms.