

Ubiquitous sensor networks in the heterogeneous LTE network.

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Abstract— The introduction of a broad concept of the Internet of Things, together with the development of LTE systems (Long Term Evolution) raises a number of new challenges for the integration of resources of self-organizing networks and traffic management in LTE. The article investigates the possibilities of increasing in the residual energy and the duration of the life cycle of a sensor network by providing the temporary status of the cluster head to node crossing the sensor field, such as mobile network terminal, VANET nodes, etc.

Keywords— USN, Cooperative communication, LTE, Traffic model, Mobile cluster head



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