

# **Abstract**

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## **Investigation of Collision Avoidance and Localization in WSNs**

The most important two problems in Wireless Sensor Network (WSN) is localization and collision avoidance of the transferred packets. A solution for these obstacles is introduced in this work. Localization is solved by upgrading anchor position accuracy using a global positioning system (GPS); position estimates. Collision avoidance obstacle is discussed in the simulation of WSN; studying the effect of collision occurrence during communication between wireless sensor nodes.