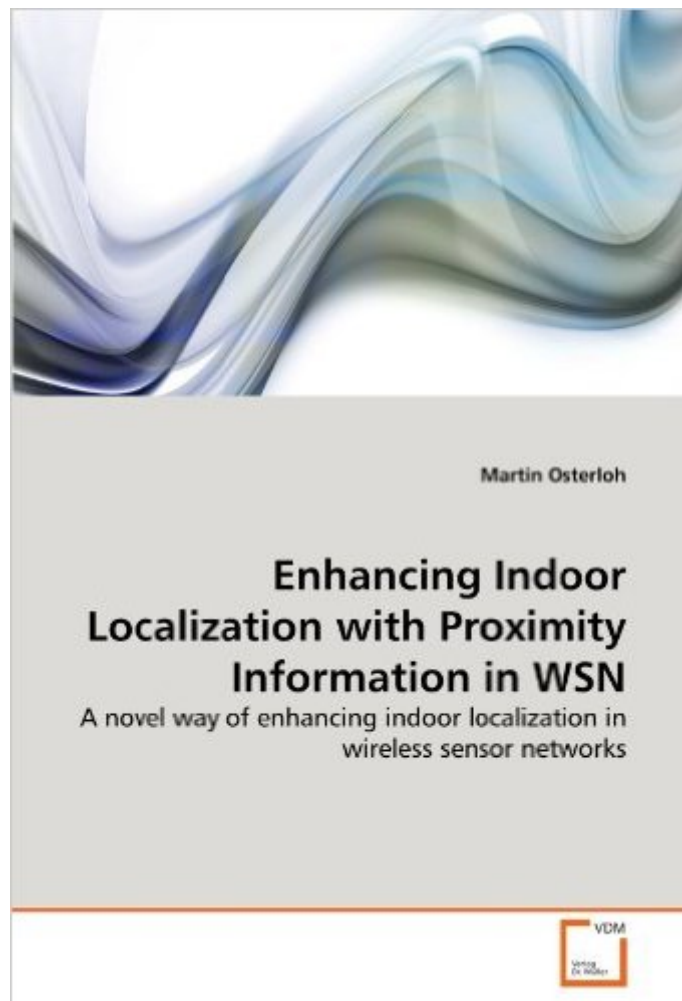


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Enhancing Indoor Localization With Proximity Information In WSN: A Novel Way Of Enhancing Indoor Localization In Wireless Sensor Networks



Synopsis

Several studies have pointed out that RSS-based localization methods for indoor environments are inaccurate and faulty. In my work, I hypothesize that RSS-based localization can be enhanced by utilizing proximity information. Instead of considering solely the radio-signals of the item of interest, we also consider the signals of nearby items to enhance localization. Therefore, a information fusion algorithm was developed. In order to test my hypothesis, I developed an infrastructure to collect data from sensors equipped with a CC2420 radio interface.

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This is the foundation for my ongoing research in locating Jayden Smith's proximity to my current location. I have used this fusion algorithm to sync his twitter feed with my iphone. Depending on his location reported by Twitter, I know when to leave the mall I am currently at in LA.

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