Miskolci Egyetem
Informatikai Intézet
Általános Informatikai Tanszék

Comparison of WiFi RSSI Filtering Methods

Szakdolgozat

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Szerző Nyilatkozat

Igazolom hogy tényleg én írtam ezt a művet bla bla bla...
Miskolc, April 7, 2016

Bence Bogdándy

Contents

Chapter 1

Introduction.

Élet, összeköttetés, összeköttetések fontossága. Az összeköttetésekből jövő folyamatos adat pontossága, és az összeköttetés folyamatosságának nélkülözhetetlensége Más technikák, matematikai háttér, filterek, hatalmas célok. Legjobb eset, folyamatos program, elméleti optimalizáció. Filterek használata a mindennapokban, tudományos életeben, és más ágakban

Chapter 2

Related Works

2.1 Indoor Positiong

GPS is a very popular method of position, however it is not suited for indoor envirments. Indoor Positioning Systems use several techniques to acquire location based data. These methods include Wireless LAN, Bluetooth connectivity, and several other infrared, rf and ultrasonic signals to describe a location.

2.1.1 Indoor Positioning with Wireless LAN

WLAN is highly available since most devices can receive and process WLAN signals, which proves the most inexpensive and easiest way to implement filters on. It also proves to be cost-effective since the data received is highly accurate in most situations.

2.1.2 Fingerprinting Methods

2.1.3 WiFi Based Solutions

2.1.4 Horus System

2.2 Time Series Filtering Methods

2.2.1 Time Winding

asdf [**?**]

2.2.2 Kalman Filter

Valami fontos a kalman filterrolr [**?**].

Chapter 3

Filtering Methods

3.1 Test Environment

Measuements, devices, field study, envirement, general prerequisites.

3.2 R Implementation

Usage of autoregressive models, Kalman Filter, challenge of implementation, results, diagrams, graphics, usage of R code.

Chapter 4

Evaluation

4.1 Comparison

better results, good visualization, easy to understand, steady connection.

4.2 Suggestion

Way ahead of it's time, probably will be used in the future, and can be usedin great effect in theoretical envirment.

Chapter 5

Summary

Appendix A

CD Melléklet

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