Anchor Node Placement for Localization in Wireless Sensor Networks

by

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A Dissertation submitted to
the Faculty of Graduate Studies and Research
in partial fulfilment of
the requirements for the degree of
Master of Applied Science

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The undersigned recommend to the Faculty of Graduate Studies and Research acceptance of the Dissertation

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V. Aitken, Department Chair	

Carleton University
2009

Abstract

An abstract should be short and to the point.

This is the dedication...

${\bf Acknowledgments}$

I would like to acknowldege \dots

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Chapter 1

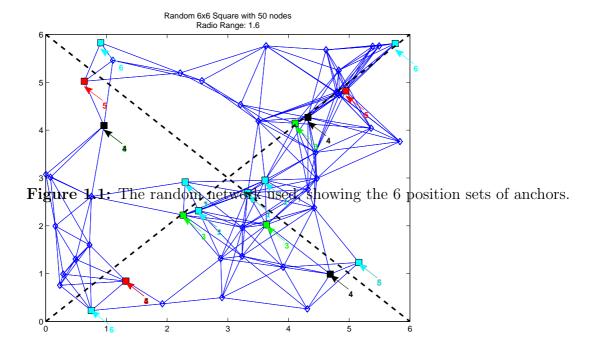
Introduction

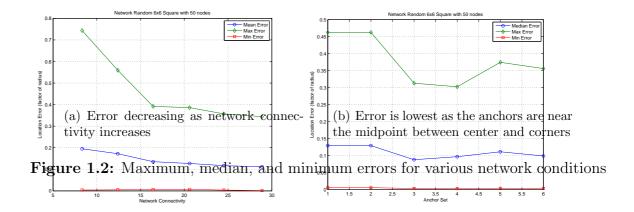
1.1 Anchor Placement: Equal distribution along45 Degree Axis

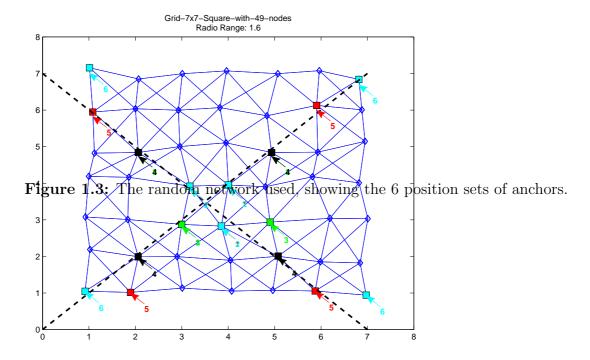
For the first round of testing, chosen more as an excercise in the simulation analysis package in MATLAB©, 4 anchor nodes are placed at the closest node the 45-degree axes, with increasing distance from the center. 1.1 shows the positions for each iteration.

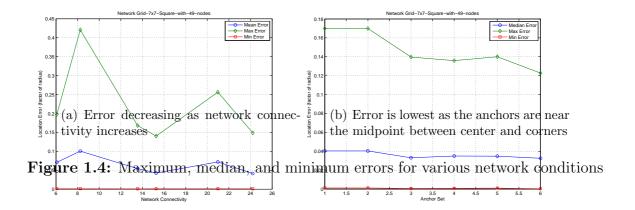
The 2nd graph in 1.2 shows that the best localization performance is achieved when the 4 anchors are roughly midway between the center of the network and the corners.

The same test is repeated for a grid network layout instead of a random network layout.









Chapter 2

The Beginning of the Details

2.1 Section Heading

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2.1.1 Sub-Section Heading

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Sub-Sub-Section Heading

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Appendix A

Derivation of Some Nasty Equation

Here is the derivation.