

UNIVERSITI TEKNOLOGI MARA

HYSTERESIS MARGIN FOR HANDOVER IN LTE
FEMTOCELL NETWORKS

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MASTER OF SCIENCE IN TELECOMMUNICATIONS
AND INFORMATION ENGINEERING

JULY 2013

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Dissertation submitted in partial fulfillment of the requirements
for the degree of
Master of Science in Telecommunication and Information Engineering

Faculty of Electrical Engineering

JULY 2013

ACKNOWLEDGEMENTS

In the name of Allah, The Most Gracious and The Most Merciful. Praise is only to ALLAH S.W.T.

Foremost, I would like to express my deepest appreciation to all those who provided me the possibility to complete this report. A sincere gratitude to my advisor Dr. Azita Laily bt Yusof for the continuous support of my master project, for his patience, motivation, enthusiasm, suggestions, encouragement and immense knowledge. His guidance helped me to coordinate my project in all time of research and writing of this thesis.

A special thanks goes to Prof. Mahamod, for their encouragement, insightful comments, and hard questions.

I have to be thankful for the guidance given by project presentation panels that has improved my presentation skills and thanks to their comment and advices.

Last but not least, many thanks go to my family especially my beloved husband Muhammad Nazri Bin Abdul Manan for their invaluable support, patience and sacrifice. My son Isyraqul Iqbal Bin Mohammad Nazri, whose was giving me a very deep and meaningful inspiration in completing my thesis. I also thank to my parent for their unceasing encouragement and support.

This thesis would be nothing without the enthusiasm and imagination from all of you.

ABSTRACT

Femtocells with small radius are used in the network is one of the challenges for elimination of redundant handover. The utilization of femtocell results to more common will be initiation of a handover procedure. This paper focuses on an actual level of hysteresis margin according to the position of the UE in a cell. To elimination of redundant handovers, the hysteresis margin is commonly used as parameter. The purpose of this paper is to determine the impacts of triggering setting hysteresis margin on handover performance for different scenario which is number of user, speed and cell radius. The optimal setting for each scenario has been proposed. The result shows that the deployment of femtocell has increase the handover performance.

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