PREFACE

Alhamdulillahi robbil'alamin. Thanks to Allah SWT, who has been giving us His blessing and mercifull so the writer can accomplish the thesis entitled "Performance Analysis of Collaborative Spectrum Sensing for OFDM Signal Based on Distributed Detection with 2-Bit Decision". This thesis is presented to meet one of the requirements to obtain Master Degree of Electro-Telecommunication in School of Electrical Engineering, Telkom University, Bandung, Indonesia.

I want to present sincere thanks to everyone who has helped me in this thesis as follow:

- 1. Dr. Heroe Wijanto, as thesis supervisor I, who has provided guidance and advice during the preparation of this thesis.
- 2. Dr-.Ing. Fiky Y. Suratman, as thesis supervisor II, who has provided guidance, encouragement, patient, advice, and suggestion which are very helpful in finishing this thesis.
- All Lecturer and Staff of Telkom Engineering School, in Telkom University, who
 have transferred much knowledge and help to me during study at the Telkom
 University.
- 4. The writer's beloved Parents: Hotman Mustopa and Puspanita Kuswanti. Thank you so much for your prayer, support, affection, advices, guidance, and help in all my life.
- 5. The writer's beloved Wife and beloved Children: Ruwaida, Haura Nadhifa Qolbi, Muhammad Fauzul Azim and Muhammad Fatih Maulana. Thank you so much for your prayer, understanding, support, and affection to help in the preparation of this thesis..
- 6. Students Fellow of Electro-Telecommunication Engineering Graduate Program in School of Electrical Engineering, Telkom University, who has always given the spirit to the completion of this thesis.

The writer's realize that writing is far from perfect, therefore, the writer's expects suggestions and constructive criticism in the hope to achieve better results in the future. Finally, may Allah SWT receives all their works and kindnesses. Aamiin YRA.

Bandung, September 1st, 2016

Erick Sonjaya