Acknowledgments

First and foremost, I thank **<u>ALLAH</u>** for giving me incentive to go on and finish this work and giving me glimpses of heavenly hope in the darkest times.

I would like to thank my supervisor, **Professor Alaa El-Din Mohamed Riad**, Vice Dean for Education and Student Affairs, for his unlimited support and encouragement, for providing me with valuable insights and encouraging me to always do better, for keeping my thesis on track and always giving me great and valuable ideas to enhance my work.

I would like to thank my supervisor, **Dr.Hazem M. El-Bakry** for the insightful discussions, and ideas, for taking long times to discuss smallest details.

I would like to thank **Dr.Hamy El-Minir**, head of communications department of the Misr High Institute of Engineering for his support and motivation from the early stages of this work.

To **My Father** and **Mother**, **My Beloved Brothers** *Mohamed and Hesham* and **The Sweet Sister** *Mariam,* you are the people whom without I couldn't have continued the journey to the day I witness this dissertation alive. Thanks for always being there to support me, every single moment, with everything you can, when I was about to lose hope and trust in me being able to continue through the darkness, trying to reach the goal through long nights of mess, you were there,

through long distances you were pushing me forward by your support, encouragement, guidance, and help. Thanks to ALLAH, I'm really blessed with amazing family like you. I Love You all!

Last but not least, I would like to thank people who are not waiting for my thanks, who are keeping me up and pushing me forward, who are wishing me the best, praying for me, sacrificing everything they have, and giving everything they can just to see me where I am right now, **my family,** and **my friends**.

Haitham A. El-Ghareeb

October 2011