ACKNOWLEDGEMENTS

I thank the Almighty for bestowing his grace on me and providing enough strength to pursue my PhD work. I am highly grateful to my Guide Dr. B. Suryanarayana Adiga, Principal Consultant at TCS Pvt. Ltd., Bangalore, for his excellent guidance and supervision throughout the research work. He means everything to me. He has inspired me and has given very good encouragement to complete this work. His valuable advices, judicious observations, unstinted moral support and encouragement have fructified in this thesis. He made himself available on holidays and after office hours to facilitate me to complete my work in spite of health problems. His high calibre coupled with simplicity makes him a role model for me. Without his guidance, this work would not have been possible. There are no words to explain his concern for me and my work. I will remember him throughout my life.

I am highly indebted to my supervisor Dr. B.C. Jinaga, Prof. (Rtd.) in ECE Dept, J.N.T.U.H whose appreciation of my work, timely advices and encouragement have helped me immensely in this work. Being an excellent teacher, his attitude to suggest corrections without hurting sentiments made me so comfortable during the entire period. His commitment to help is beyond the words and I am just fortunate enough to be a student of him. I got a perfect master in my life. He helped me in my difficult times and is the source of inspiration and commitment.
I would like to thank Dr. Vishnu Vardhan, HOD, Information Science Dept., JNTU, Jagityala for his valuable advices and help.

I sincerely express my gratitude to Dr. I. Ramachandra Reddy, Director, G.N.I.T.S. for his spirited encouragement, positive approach and untiring support. I would like to thank my friend Mr. M. Mallikarjuna, professor in CSE Dept., REVA Inst. Of Tech. and Science, Bangalore for his valuable and very useful help. His commitment to help me is beyond words.

It is my pleasure to thank HOD Mr. Ch. Ganapathy Reddy, ECE Dept, and Dr. B.L. Malleswari, my colleagues, staff, each and every one of ECE department, Mrs. Jahnavi Reddy, H & M Dept., of GNITS for their constant support and encouragement.