

ACKNOWLEDGEMENT

I profoundly express my deep and sincere gratitude to my supervisor **Dr.K.Duraiswamy**, Professor, Department of Computer Science and Engineering, K.S.Rangasamy College of Technology, Tiruchengodde, for suggesting this field of research work and supervising the entire work with utmost zeal. I gratefully acknowledge his kindness, patience, encouragement and understanding towards my research work.

I am greatly indebted to Lion. **Dr. K.S.Rangasamy** M.J.F., Chairman, K.S.R Educational Institutions, for granting me an opportunity to pursue research work, and for having provided all the necessary facilities to complete this thesis successfully. I thank **Dr.K.Thyagarajah**, Principal, K.S.Rangasamy College of Technology for his support to complete this research work. I thank all the staff and students of Computer Applications for their continuous support in this regard.

I am very grateful to the Doctoral Committee members **Dr.V.Palanisamy**, Principal, INFO Institute of Engineering, Coimbatore and **Dr.M.Y.Sanavullah** Professor and Dean, V.M.K.V.Engineering College Vinayaka Missions University, Salem, for their valuable suggestions and encouragements throughout the period of my research. I am very much indebted to all my family members and my friends for their valuable moral support at every stage of my progress in research work. Finally, I thank all those who have helped me directly or indirectly in the successful completion of my doctoral programme.

SHANTHI PM