

ACKNOWLEDGEMENT

I wish to record my deep sense of gratitude and profound thanks to my research supervisor Dr. A. Rajivkannan, Professor and Head, Department of Computer Science and Engineering, KSRCE, KSR Kalvi Nagar, Tiruchengode, Namakkal, for his keen interest, inspiring guidance, constant encouragement with my work during all stages, to bring this thesis into fruition.

I am extremely indebted to Dr. M. Arun, Associate Professor, Department of Electronics and Communication Engineering, Vellore Institute of Technology, Vellore, and to Dr. S. Sakthivel, Professor, Department of Information Technology, Sona College of Technology, Salem, the Doctoral Committee Members for their valuable suggestions and encouragements throughout the period of my research. I thank the management of SNS College of Technology for permitting me to carry out the research work.

I am very grateful to Dr. S. Karthik, Professor and Dean, Department of Computer Science and Engineering, SNSCT, SNS Kalvi Nagar, Saravanampatti, Coimbatore, and Dr. T. Kalaikumaran, Professor and Head, Department of Computer Science and Engineering, SNSCT, SNS Kalvi Nagar, Saravanampatti, Coimbatore and department faculty members and non-faculty members for their valuable suggestions and support during the course of my research work.

I am very much indebted to all my family members for their invaluable moral support at every stage of my progress in this research work.

KAMALRAJ R