Acknowledgements

The completion of this research work would not have been possible without the encouragement, help and support of many individuals. It is my privilege to thank the people who have supported and guided me throughout this research work.

I am highly indebted to my supervisor Dr. K. Thirunadana Sikamani Professor and Head, Department of Computer Science and Engineering, St. Peter’s College of Engineering and Technology, Avadi, Chennai – 600 054 for having given me an opportunity to work under his guidance. I would like to express my sincere gratitude to him for his valuable guidance, insightful suggestions, and constructive inputs.

I am grateful to Dr. E. Logashanmugam, Professor and Head, Department of Electronics and Communication Engineering, Sathyabama University, Chennai- 600 119. and Dr. P. Nirmal Kumar, Associate Professor, Department of Electronics and Communication Engineering, CIT Campus, Anna University, Chennai- 600 025. for guiding me as doctoral committee members for my research.

I am grateful to Dr. S. Ravichandran, Vice Chancellor, St.Peter’s University, for giving me an opportunity to carry out my research in the University.

I thank Dr. S. Gunasekaran, Dean, R&D, St. Peter’s University, for his constant help and support. and I also thank Dr.S.Pushpa, Professor and Head, Department of Computer Science and Engineering, St. Peter’s University, for her help during this research.

Finally, I would like to thank all those who were directly or indirectly helpful in carrying out this research.

N. THULASI