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 grateful to Dr. Francis C. Peter, Vice Chancellor, St. Peter’s Institute of Higher Education and Research, Chennai for giving me an opportunity to carry out my research in the university.

I also thank Dr. L. Mahesh Kumar, Registrar and Dr. S. Gunasekaran, Dean, R&D, St. Peter’s Institute of Higher Education and Research for their constant help and support throughout the course of my research work.

I am highly indebted to my supervisor Dr. E. Logashanmugam, Professor and Head, Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai, for 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, sustained encouragement, constructive inputs and support during my doctoral studies.

I am grateful to my doctoral committee members Dr. K. Thirunadana Sikamani, Professor and Head, Department of Computer Science and Engineering, St. Peter’s College of Engineering and Technology, Chennai, and Dr. R. Madhusudhanan,
Professor, Department of Electrical and Electronics Engineering, SRM Institute of Science and Technology, Chennai, for their guidance during my doctoral studies.

I also thank Dr. G.P. Ramesh, Professor and Head, Department of Electronics and Communication Engineering and all the faculty and non-teaching staff members of Department of Electronics and Communication Engineering, St. Peter’s Institute of Higher Education and Research, Chennai, for their help during this research.

I am also thankful for the support and help I have received from the Dr. G.N. Kodanda Ramaiah, Professor and Head, Department of Electronics and Communication Engineering, Dr. Soma V. Shetty, Principal and the Management of Kuppam Engineering College, Kuppam. I would like to thank all the faculty members of my parent Institute Kuppam Engineering College, Kuppam, for their support and guidance during my work.

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