ACKNOWLEDGEMENTS

I owe a gratitude to Dr. Francis C. Peter, Vice Chancellor and Dr. L. Mahesh Kumar, Registrar for their support to carry out this work and I also expressly thank Dr. S. Gunasekaran, Dean (R&D), St. Peter’s Institute of Higher Education and Research, for his encouragement and support on the completion of my research.

I wish to place on record my deep sense of gratitude and regards to my supervisor Dr. S. Anbu, Principal, Balaji Institute of Engineering and Technology, Tiruporur, Chennai for his kind co-operation, valid suggestions and valuable guidance which made me to complete the research work successfully.

I also express my gratitude 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. Sugumar, Professor, Department of Computer Science and Engineering, Velammal Institute of Technology, Chennai.

I thank specially Dr. S. Pushpa, Professor and Head and the staff members of the Department of Computer Science and Engineering, St.Peter’s Institute of Higher Education and Research for their help during this research.

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.