ACKNOWLEDGEMENT

The author wishes to place on record his deep sense of gratitude to his respected guide Dr. S. Sakthivel, Professor and Head of the Department of Computer Science and Applications, Alagappa University, for his constant supervision, and valuable guidance and encouragement throughout the course of this research work.

The author wishes to thank Dr. K. Nagappan, Vice-Chancellor of Alagappa University for giving his valuable advice and providing various facilities for the research work.

The author extends his thanks to Dr. K. Chandrasekhara Rao, Professor and Head of the Department of Mathematics, Alagappa University and other colleagues of the Department of Mathematics for all their help and cooperation.

Further thanks are due to Mr. S. Narayanan, Mr. E. R. Naganathan and Mr. S. Mohandoss of the Department of Computer Science and Applications for their whole-hearted help in the preparation of this thesis.

Finally the author wishes to thank all those who have helped him directly or indirectly in carrying out this research work.