ACKNOWLEDGMENT

Foremost, my gratitude goes to Dr. A. Kannan, Professor, Department of Information Science and Technology, College of Engineering, Guindy, Anna University, who guided me into the fractal realm. His vision, his enthusiasm and his spirit inspired and enlightened me to carry out this research with interest and involvement.

With profound reference and high regards, My heartfelt thanks to Dr. V.Ramalingam, Professor, Department of Computer Science and Engineering, Anna malai University, Chidambaram and Dr.T.G.Sambanthan, Professor & Head, Computer Centre, NITTR, Chennai for the prompt help in providing the excellent ideas and reasoning to do the research work and prepare the thesis.

I am very much grateful to Dr. G.V.Uma, HOD and Dr. V. Ramachandran, Professor, Department of Information Science and Technology for the motivation provided regarding this work to finish the research within the appropriate time.

I wish to thank Dr.G.B.Jaiprakash Narain, Principal and Dr.D.C.Tomar, Professor and Head, Department of Computer Science and Engineering, M.N.M Jain Engineering College, Chennai-97.

Finally, I thank to my father Mr.K.Narayanasamy and mother Mrs N.Jayalakshmi for their continuous efforts and blessings. I thank my wife Mrs.J.Jayalakshmi, son master J.Joshan and my brothers Dr. N.Manoharan, Mr. N.Mani, Sisters and all My Family Members for constant support and prayer in doing this research work. I have been blessed, encouraged and helped by a great number of friends, colleagues and supporters throughout the thesis work.

JAISANKAR N