

## **ACKNOWLEDGEMENT**

There are many people who deserve more than just an acknowledgement on this page. The following people deserve my heartfelt gratitude.

My supervising guide, Dr. S. Babusundar, Professor, Department of Computer Applications, Cochin University of Science and Technology, for his inspiring guidance and constant encouragement for his valuable suggestions, constant support, encouragement and always sharing his positive thinking during my candidature.

My thanks goes to my colleagues Dr. K. V. Pramod, Dr. B. Kannan and Smt. S. Malathi, for providing me with a stimulating research environment.

I also wish to thank G. Santhosh Kumar for wonderful collaborations. I thank Smt. Sindhu Menon and Smt. Padmakumary for their timely supports.

I would like to thank all staff members of the Department of Computer Applications, for helping me in one way or other.

I am extremely grateful to my family for the support rendered to me throughout my research work. Above all, I thank the Supreme Power, who has always showered countless blessings upon me.

Sreekumar, A.