ACKNOWLEDGEMENTS

During the work on this thesis, I have benefited from a lot of communication with many people, who have provided valuable input to my studies. First of all, I would like to thank my supervisor Professor C. Umashankar for giving in valuable feedback and advice during my work. His engagement and knowledge have inspired me a lot.

Also, thanks to present and former colleagues and coordinator at the Department of Computer Science, S.K.U. P.G. Centre for providing a good work environment.

A specific appreciation goes to my parents for supporting and believing in me during my work.