ACKNOWLEDGEMENTS

Research is a systematic study on a concept and needs proper supervision and support multiple ways. There are many people around me who helped in all the ways to achieve this successful result. I would like to place my gratitude to all those who motivated and helped me in accomplishing my goal.

First of all I am grateful to ALMIGHTY GOD for empowering me to complete this research work successfully.

I express my heartfelt gratitude to my research supervisor Dr. Sumitra Binu for the constant motivation and guidance extended to me during the course of my research work. Her systematic approach and insistence to strive for quality and perfection helped to achieve high standards in the research work carried out.

I would like to sincerely thank Dr. Fr. Thomas C. Mathew, Vice Chancellor, CHRIST(Deemed to be University), Dr. Fr. Abraham V. M., Pro Vice Chancellor, CHRIST(Deemed to be University), Dr. Anil Joseph Pinto, Registrar, CHRIST(Deemed to be University), Dr. Fr. Jobi Xavier, Chief Finance Officer, CHRIST(Deemed to be University), Dr. Tony Sam George, Additional Director, Centre for Research, CHRIST(Deemed to be University), Dr. Shivappa B. Gudennavar, Associate Director, Centre for Research, CHRIST(Deemed to be University), Dr. Sebastian K.A., Professor, CHRIST(Deemed to be University) for their support and guidelines.

It is a great pleasure to acknowledge my deepest thanks and sincere gratitude to Head of the Department, Prof. Joy Paulose for his moral
support and he was one of the key drivers for the successful completion of my research.

I would like to acknowledge the Center for Advanced Studies in Adaptive Systems (CASAS) project from Washington State University, USA, for sponsoring the ShiB010 kit for my research.

I am grateful to the blessings showered on me by my parents R. Rajamohan, Late. R.Kaveri, because of whom I am what I am today. I thank my husband Namboori Gangadhar for his invariable and continuous moral support. I also thank my children Namboori Karthik and Namboori Dhanvanth whose love and support during this period is beyond words to express. My husband and children are the most essential people in my life and I dedicate this research work to them.

R. Kavitha