Acknowledgement

To begin with the acknowledgements, I would like to show a sincere gratitude towards the almighty God for making this very moment possible. This has been a real long and interesting journey of five years and I have been constantly showered with tons of positive vibrations at each and every phase. I would like to share my sincere regards to someone, without whom this journey was not possible, my guide Dr Viral Bhatt. He has been ever energetic and enthusiastic mentor who leads from the front and takes deep interest in even the simple most part of the research. Being an eminent researcher with vast experience into various ongoing research areas, he has guided the project from multiple dimensions, making the best outcome possible. I have seen very rare souls who are such ever ready and ever approachable to meet students and solve the various queries one after another. I would also grab this opportunity to thank my family members for standing by me during this long phase. My wife, Avani has been managing hectic schedules for this research and has been letting me spend most of the time working on research, is hugely appreciated. She has been a rock solid motivation all through the tenure. My mom and dad, Darshanaben and Bharatbhai Jadav, have been standing by all the time and keeping the morale up as much as possible. My brother Nahush, has always been up for help and provided a special support by giving me pickup from the place of my guide, where I usually used to spend time working on this research project. Apart from my guide, there is someone who has hugely contributed to this thesis, Ms Shital Bhatt, wife of Dr Viral Bhatt. She was a constant source of guidance along with her greatest and cordial most hospitality, which I am indebted. I need to also mention the occasional helps received from Mr Lakshdweep Raval. His positive approach was equally helpful. I am also thankful to my students across the various batches, who have been all supportive as and when needed. I am equally thankful to all my numerous friends and colleagues, who so ever have directly or indirectly helped me during the research and stood by me by getting my official work and letting me focus on the research.