

Acknowledgement

The author wishes to express his deep gratitude to his Late father, Mr. Lokesh Kumar K.C., mother, Mrs. Jamuna K.C. and brother, Mr. Birendra Bahadur K.C. for their warm love, affection, and inspirations, which make possible to achieve many scholarships in his student life from the beginning of the day. He would like to put across his profound gratitude and sincere appreciation to his advisor, Dr. Cholwich Nattee for giving him a topic of research, significant advices, precious comments and constant encouragement throughout the epoch. More specifically, he is glad with his availability, patience and assistance in many aspects. The author gives great thanks to Asian Development Bank- Japan Scholarship Program (ADB-JSP) for providing huge fund in his entire study period.

The author conveys special thanks to Assoc. Prof. Dr. Thanaruk Theeramunkong (Head of Department- School of Information and Computer Technology, Sirindhorn International Institute of Technology) and Asst. Prof. Dr. Matthew N. Dailey (Asian Institute of Technology) for their remarks with possible solutions, good wishes, priceless advices and guidance in every progress presentation and seminar.

The author is grateful to Dr. Sanparith Marukatat, NECTEC, Thailand, for his valuable suggestions in many conferences like, Knowledge, Information and Creativity Support Systems (KICSS) 2006 and Pacific Rim International Conference on Artificial Intelligence (PRICAI) 2006, with the possibility of significant perfection. How can he forget to give a special thanks to the committee of the first International Conference on Knowledge, Information and Creativity Support Systems KICSS, 2006 for rewarding the Best Student Paper Award?

The author would like to convey his sincere thanks to Mr. Ithipan Methasate, Mr. Prakasith Kayasith, Ms. Chutima Pisarn and Mr. Kritsada Sriphaew, KIND LAB, Sirindhorn International Institute of Technology, Thammasat University, Thailand, for their valuable suggestions and recommendations during the entire study period.

The author grants his deepest grateful to external committee, Assoc. Prof. Dr. Boonserm Kijirikul (Chulalongkorn University), for his immediate respond to the thesis along with a sort of appreciation to this task.

Lastly, he acknowledges to all the contributors (Nepalese natives) for giving their precious time in writing both test and training characters.