

**APPLICATIONS OF EXTREME VALUE ECONOMETRICS TO
ENERGY-CROP PRICE-ANALYSIS**

KANTAPORN CHUANGCHID

**DOCTOR OF PHILOSOPHY
(ECONOMICS)**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University
All rights reserved
THE GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
SEPTEMBER 2012

**APPLICATIONS OF EXTREME VALUE ECONOMETRICS TO
ENERGY-CROP PRICE-ANALYSIS**

KANTAPORN CHUANGCHID

**A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN
PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
(ECONOMICS)**

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

Copyright© by Chiang Mai University
All rights reserved

**THE GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
SEPTEMBER 2012**

**APPLICATIONS OF EXTREME VALUE ECONOMETRICS TO
ENERGY-CROP PRICE-ANALYSIS**

KANTAPORN CHUANGCHID

**THIS THESIS HAS BEEN APPROVED
TO BE A PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF DOCTOR OF PHILOSOPHY
(ECONOMICS)**

EXAMINING COMMITTEE

Hung T. Nguyen
..... CHAIRPERSON
Prof. Dr. Hung T. Nguyen

Songsak Sriboonchitta
..... MEMBER
Prof. Dr. Songsak Sriboonchitta

Aree Wiboonpongse
..... MEMBER
Prof. Dr. Aree Wiboonpongse

Thanes Sriwichailamphan
..... MEMBER
Assoc. Prof. Dr. Thanes Sriwichailamphan

Chukiatt Chaiboonsri
..... MEMBER
Lect. Dr. Chukiatt Chaiboonsri

THESIS ADVISORY COMMITTEE

Songsak Sriboonchitta
..... ADVISOR
Prof. Dr. Songsak Sriboonchitta

Aree Wiboonpongse
..... CO-ADVISOR
Prof. Dr. Aree Wiboonpongse

Chukiatt Chaiboonsri
..... CO-ADVISOR
Lect. Dr. Chukiatt Chaiboonsri

ACKNOWLEDGEMENTS

The countless effort and spirit to complete this work would not have been possible without the significant help, support, and encouragement from those who have provided the knowledge and wisdom. First and foremost, the author would like to express my deepest gratitude and sincere appreciation to Prof. Dr. Songsak Sriboonchitta, who is the former Dean of the Chiang Mai School of Economics and my main advisor, Prof. Dr. Aree Wiboonpongse, head research project and committee co-advisor, Prof. Dr. Hung T. Nguyen, chairperson of the advisory committee, Assoc. Prof. Dr. Thanes Sriwichailamphan, committee, and Dr. Chukiat Chaiboonsri, committee co-advisor, for providing all the mental and supporting resources, guidance and direction that had helped me over time to make this educational journey a fruitful experience.

The author is also grateful to Prof. Nader Tajvidi, at the Lund Institute of Technology in Sweden, for offering his insights in the application of extreme value theory, as well as providing useful suggestions and comments to help keep my paper to be in full progress.

Utmost appreciation is forwarded to Dr. Sanzidur Rahman, Associate Professor in Rural Development School of Geography, Earth and Environmental Sciences, Faculty of Science and Technology, The University of Plymouth, United Kingdom for making time to be one of my co-authors to help developed a paper entitled “Predicting Malaysian palm oil price using Extreme Value Theory”.

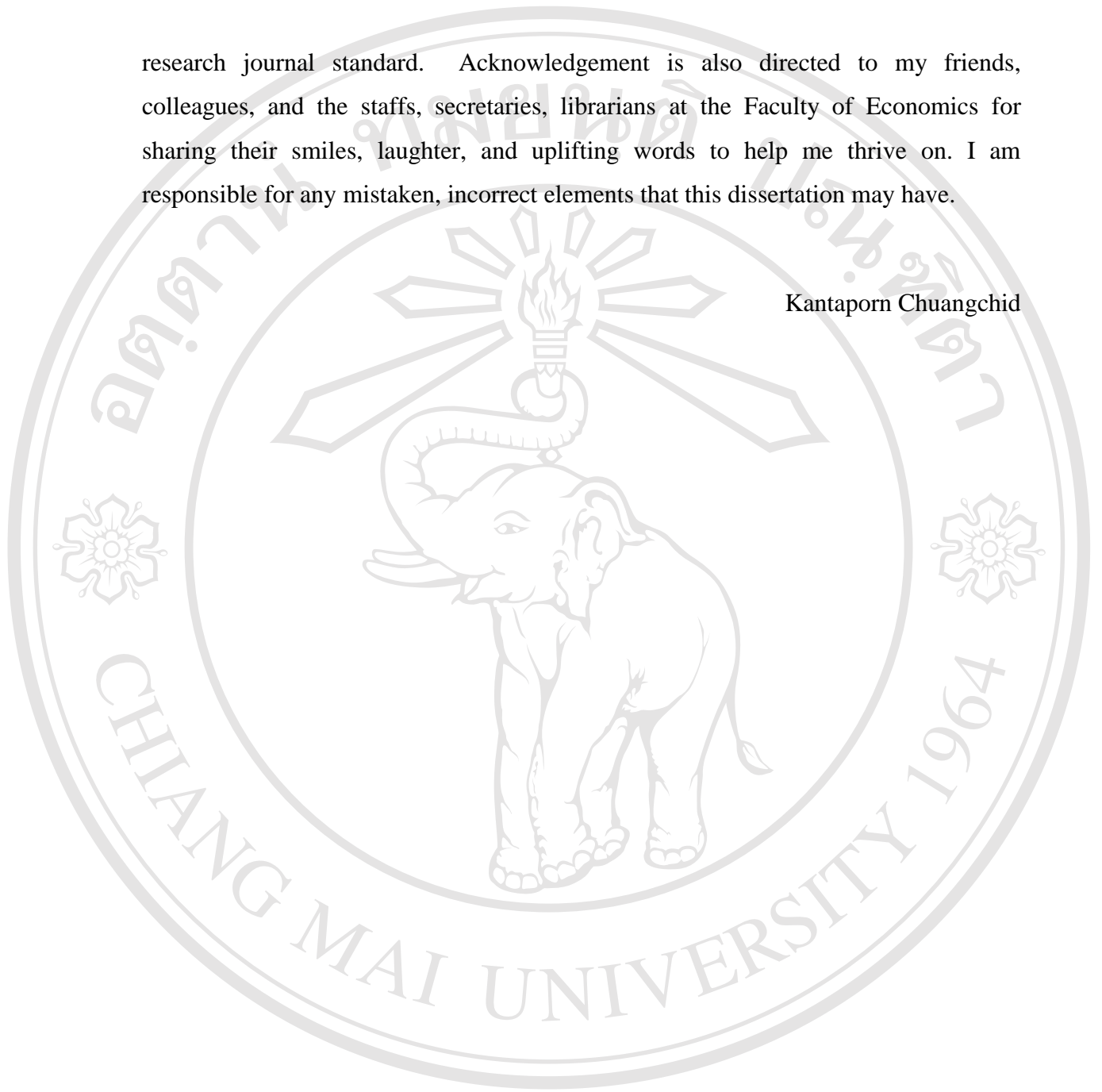
With sincere gratitude, I wish to thank the Thailand Research Fund (TRF) for its financial support for the research project (BRG5380024).

With absolute love and heartfelt appreciation, I would like to let my parents, Mr.Paiboon and Mrs.Chaweewan Chuangchid, know that your loving daughter has made it to the top because of your faith her. Special thanks to Mrs.Phanpimon Bukkanasuta and Miss Sangrenoo Chiamsakol for being my spiritual and financial supporter in ensuring that the study becomes completed.

Finally, the author would like to acknowledge Mr. Ravee Phoewhawm for providing support in ensuring that my use of the English language complies with the

research journal standard. Acknowledgement is also directed to my friends, colleagues, and the staffs, secretaries, librarians at the Faculty of Economics for sharing their smiles, laughter, and uplifting words to help me thrive on. I am responsible for any mistaken, incorrect elements that this dissertation may have.

Kantaporn Chuangchid



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved