

**AN INTEGRATED MULTI-CRITERIA DECISION MAKING
METHODOLOGY FOR CONVEYOR SELECTION SYSTEM**

PAIRAT JIAMRUANGJARUS

**A THESIS SUBMITTED IN PARTIAL FULFILLMENT
OF THE REQUIREMENTS FOR
THE DEGREE OF MASTER OF ENGINEERING
(INDUSTRIAL ENGINEERING)
FACULTY OF GRADUATE STUDIES
MAHIDOL UNIVERSITY
2012**

COPYRIGHT OF MAHIDOL UNIVERSITY

Thesis
entitled

**AN INTEGRATED MULTI-CRITERIA DECISION MAKING
METHODOLOGY FOR CONVEYOR SELECTION SYSTEM**

.....
Mr.Pairat Jiamruangjarus
Candidate

.....
Asst. Prof. Thanakorn Naenna,
Ph.D. (Engineering Science)
Major advisor

.....
Asst. Prof. Tanawut Tantimongcolwat,
Ph.D. (Medical Technology)
Co-advisor

.....
Prof. Banchong Mahaisavariya,
M.D., Dip Thai Board of Orthopedics
Dean
Faculty of Graduate Studies
Mahidol University

.....
Asst. Prof. Thanakorn Naenna,
Ph.D. (Engineering Science)
Program Director
Master of Engineering Program in
Industrial Engineering
Faculty of Engineering
Mahidol University

Thesis
entitled
**AN INTEGRATED MULTI-CRITERIA DECISION MAKING
METHODOLOGY FOR CONVEYOR SELECTION SYSTEM**

was submitted to the Faculty of Graduate Studies, Mahidol University
for the degree of Master of Engineering (Industrial Engineering)
on
June 6, 2012

.....
Mr.Pairat Jiamruangjarus
Candidate

.....
Assoc. Prof. Tuanjai Somboonwiwat,
Ph.D. (Industrial Engineering)
Chair

.....
Asst. Prof. Thanakorn Naenna,
Ph.D. (Engineering Science)
Member

.....
Asst. Prof. Tanawut Tantimongcolwat,
Ph.D. (Medical Technology)
Member

.....
Prof. Banchong Mahaisavariya,
M.D., Dip Thai Board of Orthopedics
Dean
Faculty of Graduate Studies
Mahidol University

.....
Lect. Worawit Isarangkul,
M.S. (Technical Management)
Dean
Faculty of Engineering
Mahidol University

ACKNOWLEDGEMENTS

The success of this thesis can be succeeded by the attentive support from my major advisor, Asst. Prof. Dr. Thanakorn Naenna. I would like to express my appreciation and deeply thank him for the valuable advices and several suggestions reinforced my perception and knowledge to practice this research.

I would like to express my appreciation and deeply thank to Asst. Prof. Tuanjai Somboonwiwat, the external examiner of the thesis defense and Dr. Tanawut Tantimongcolwat for their kindness in valuable suggestion and time sacrifice through this study. I also

Thank to my friends and staffs in Industrial Engineering department Mahidol University, for their help, kindness, support and cooperation during this study.

Finally, This research was financially supported by national research council of Thailand and grateful to my family, especially my parents for unconditional support, entirely care, love and encouragement through my life. I would like to thank all of those who I have not listed above.

Pairat Jiamruangjarus