A THEORETICAL MOBILITY MODEL FOR WIRELESS NETWORKS AND ITS COMPLEXITY

PATTAMA LONGANI

DOCTOR OF PHILOSOPHY

IN COMPUTER SCIENCE

GRADUATE SCHOOL

CHIANG MAI UNIVERSITY

APRIL 2015

A THEORETICAL MOBILITY MODEL FOR WIRELESS NETWORKS AND ITS COMPLEXITY

PATTAMA LONGANI

A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

GRADUATE SCHOOL, CHIANG MAI UNIVERSITY APRIL 2015

A THEORETICAL MOBILITY MODEL FOR WIRELESS NETWORKS AND ITS COMPLEXITY

PATTAMA LONGANI

THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY
IN COMPUTER SCIENCE

Examination Committee:

.... Chairman
(Assoc. Prof. Dr. Juggapong Natwichai)

.... Member
(Assoc. Prof. Dr. Sanpawat Kantabutra)

.... Member
(Assoc. Prof. Dr. Jeerayut Chaijaruwanich)

.... Member
(Asst. Prof. Dr. Athasit Surarerks)

.... Member
(Asst. Prof. Dr. Samerkae Somhom)

Advisory Committee:

.... Advisor
(Assoc. Prof. Dr. Sanpawat Kantabutra)

.... Co-advisor
(Prof. Dr. Raymond Greenlaw)

.... Co-advisor
(Assoc. Prof. Dr. Jeerayut Chaijaruwanich)

.... Co-advisor
(Asst. Prof. Dr. Samerkae Somhom)

28 April 2015

ii

ACKNOWLEDGEMENT