

**DIRECT POWER CONTROL TECHNIQUES FOR
DOUBLY-FED INDUCTION GENERATOR
DRIVEN BY SMALL HYDRO TURBINE**

WATCHARIN SRIRATTANAWICHAIKUL

DOCTOR OF PHILOSOPHY

IN ELECTRICAL ENGINEERING

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**GRADUATE SCHOOL
CHIANG MAI UNIVERSITY
MARCH 2015**

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**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF
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THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF
THE REQUIREMENTS FOR THE DEGREE OF
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Examination Committee:

Advisor:

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Dedicated to my parents



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