

**DEVELOPMENT OF A TOTAL COMMUNICATION ANIMATION  
DICTIONARY TO ENHANCE ENGLISH VOCABULARY AND  
READING KNOWLEDGE OF THAI PRIMARY SCHOOL  
STUDENTS WITH HEARING IMPAIRMENTS**

**SANTICHAI WICHA**

**DOCTOR OF PHILOSOPHY  
IN KNOWLEDGE MANAGEMENT**

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THE GRADUATE SCHOOL  
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A THESIS SUBMITTED TO THE GRADUATE SCHOOL IN  
PARTIAL FULFILLMENT OF THE REQUIREMENTS  
FOR THE DEGREE OF  
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THIS THESIS HAS BEEN APPROVED  
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