THE RELATIONSHIP BETWEEN LEARNER CONTROL
AND ONLINE LEARNING SELF-EFFICACY

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ABSTRACT

Online learning has been growing rapidly in recent years, providing increased opportunities for tertiary institutes to reach out to learners who previously may have had limited access to a traditional university. Although students frequently use information technologies in their daily life, online learning requires considerably more competencies than basic computer skills. Many students are unsuccessful in their learning without face-to-face contact and collaboration with lecturers and peers. They can feel isolated and doubt their ability to succeed in the online course. To increase online learner success, support is needed, especially to improve learner self-efficacy. Very few studies have focused on student self-efficacy in an online learning environment and especially those conducted in an authentic setting. Learner control is thought to facilitate students in online learning, but the relationship between learner control and learner self-efficacy is still unclear. Therefore, this study intends to examine this relationship using an embedded-correlational mixed method design to answer the research question, what is the relationship between learner control and online learning self-efficacy? The quantitative approach was used to find the correlations among learner control, online learning self-efficacy, and related variables such as age, gender, prior online experience, and computer skills. An online Learning Self-efficacy Scale (OLSES) was constructed and validated with an internal consistency of 0.895. Open-ended questions were added to the questionnaire to gain a greater level of insight of online learning experience in relation to self-efficacy and learner control. Seventy-five students in a four year teaching online programme at a New Zealand tertiary institute participated in the online survey. Data analyses revealed that the relationship between learner control and online learning self-efficacy was confirmed, \( r = .526, p < .01 \). Age and gender had no effect on the relationship while prior online experience, computer skills for social and academic purposes did. The multiple linear regression showed that learner control and computer skills for academic purpose are good predictors of online learning self-efficacy. Analyses of the qualitative data not only confirmed the quantitative findings, but also provided insight into the nature of self-efficacy and importance of feedback in the online setting. As a result of this study, the embedded framework for successful line learners (SUCCESS) was developed and is recommended as a set of guidelines for online learning developers.
DEDICATION

I would like to dedicate this thesis to my dad who gave me my blood and soul. He was the one who showed me the great strength of self-efficacy which inspired and led me into a long lonely but the enjoyable PhD journey. Though we did not spend quality time during the past years, I was touched by his love.

Learning is a never-ending process. Those who wish to advance in their work must constantly seek more knowledge, or they could lag behind and become incompetent.

(H.M. Bhumibol Adulyadej, 1961)
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กิตติกรรมประกาศ

ขอขอบคุณมหาวิทยาลัยเทคโนโลยีราชมงคล พระนคร ที่ให้ทุนการศึกษาตลอดระยะเวลา 4 ปี ทำให้ผู้รับทุนมีโอกาสไปพัฒนา ไปศึกษาหาความรู้ และเก็บเกี่ยวประสบการณ์ในประเทศนิวซีแลนด์ จนสำเร็จการศึกษาระดับปริญญาเอก

ขอขอบคุณมหาวิทยาลัยเทคโนโลยีสื่อสารมวลชน รองศาสตราจารย์ วิมลพรรณอาภาเวท ที่ได้เห็นศักยภาพของผู้รับทุน และเสนอชื่อผู้รับทุนต่อทางมหาวิทยาลัยฯ ขอขอบคุณยอดน้อยที่ตอบรับ ดร. นุชลี อุปภัย รองอธิการบดี ด้านวิจัยและบริการวิชาการในขณะนั้น ที่ให้การสนับสนุน และให้ความสะดวกในการมาศึกษาที่ประเทศนิวซีแลนด์ในครั้งนี้

ขอขอบคุณเจ้าหน้าที่กองบริหารงานบุคคล โดยเฉพาะอย่างยิ่ง คุณวันใหม่ สุกใส ขอขอบคุณเจ้าหน้าที่การเงิน กองคลัง และเจ้าหน้าที่สายสนับสนุน คณะกรรมการสื่อสารมวลชนทุกทาน ที่ช่วยเหลือในการส่งหนังสือ ทำเรื่องเบิกจ่าย และอื่นๆ ในขณะที่ผู้รับทุนศึกษาอยู่ที่ประเทศนิวซีแลนด์ ผู้รับทุนมีความมั่นใจและมั่นคง ด้วยการสนับสนุนของบุคคลทรงทุ่มเท นอกจากนี้ถึงครั้งนี้ยังต้องขอบคุณอีกครั้งมา ณ ที่นี้ด้วย
TABLE OF CONTENTS

ABSTRACT .................................................................................................................................i
DEDICATION............................................................................................................................iii
ACKNOWLEDGEMENTS..........................................................................................................v
TABLE OF CONTENTS.............................................................................................................ix
LIST OF ABBREVIATIONS ......................................................................................................xv
LIST OF TABLES ....................................................................................................................xvii
LIST OF FIGURES ..................................................................................................................xix
CHAPTER 1
INTRODUCTION TO THE STUDY .........................................................................................1
1.1 INTRODUCTION...................................................................................................................1
1.2 IMPETUS FOR THE STUDY ...............................................................................................1
1.3 RESEARCH AIMS..............................................................................................................3
1.4 THE RESEARCHER ...........................................................................................................4
1.5 DISTANCE AND ONLINE LEARNING IN THAI AND NEW ZEALAND CONTEXTS ...........4
1.6 DELIMITATIONS .............................................................................................................6
1.7 SIGNIFICANCE OF THE STUDY .....................................................................................7
1.8 THESIS OVERVIEW ......................................................................................................8

CHAPTER 2
REVIEW OF THE LITERATURE..............................................................................................11
2.1 INTRODUCTION................................................................................................................11
2.2 SOURCES SEARCHED ....................................................................................................11
2.3 DEFINITIONS OF KEY TERMS ......................................................................................12
2.4 SELF-EFFICACY .............................................................................................................13
  2.4.1 Self-efficacy and learning ......................................................................................16
  2.4.2 Online learning self-efficacy ...............................................................................18
  2.4.3 Measuring online learning self-efficacy ...............................................................21
2.5 ONLINE LEARNERS ....................................................................................................22
  2.5.1 At risk online learners .........................................................................................23
  2.5.2 The factors needed for successful online learners .............................................27
2.6 LEARNER-CONTROLLED ONLINE LEARNING ............................................................31
  2.6.1 What is learner control? ......................................................................................31
2.6.2 Learner control and hypermedia ................................................................. 33
2.6.3 Learner control and interaction/interactivity .................................................. 34
2.6.4 Degree of learner control in learner control with hypermedia ....................... 36
2.6.5 Learner control and courseware design ......................................................... 37
2.7 LEARNER CONTROL AND ONLINE LEARNER SELF-EFFICACY ....................... 38
  2.7.1 Positive gain of self-efficacy in learner-controlled online learning environments ................................................................................................ 39
  2.7.2 Inconsistency effect ....................................................................................... 41
2.8 CHAPTER SUMMARY ......................................................................................... 42

CHAPTER 3
RESEARCH FOCUS .................................................................................................. 45
  3.1 INTRODUCTION ................................................................................................ 45
  3.2 RESEARCH APPROACH .................................................................................. 45
  3.3 RESEARCH AIMS OF THE STUDY .................................................................. 46
  3.4 THEORETICAL FRAMEWORK ....................................................................... 47
  3.5 RESEARCH QUESTIONS AND HYPOTHESES ............................................... 48
  3.6 RESEARCH VARIABLES ............................................................................... 51
  3.7 ANTICIPATED OUTCOMES .......................................................................... 51
  3.8 ETHICAL CONSIDERATIONS ....................................................................... 52
  3.9 CHAPTER SUMMARY .................................................................................... 53

CHAPTER 4
SCALE DEVELOPMENT AND PILOT STUDY ....................................................... 55
  4.1 INTRODUCTION ............................................................................................. 55
  4.2 DRAFTING THE QUESTIONNAIRE ............................................................... 55
  4.3 THE PILOT GROUP ....................................................................................... 57
  4.4 THE PILOT PROCESS .................................................................................... 59
  4.5 RELIABILITY AND CONSISTENCY .............................................................. 60
  4.6 PRELIMINARY FINDINGS ............................................................................ 74
  4.7 CHAPTER SUMMARY ................................................................................... 77

CHAPTER 5
METHODOLOGY .................................................................................................... 79
  5.1 INTRODUCTION ............................................................................................. 79
### LIST OF ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMUTP</td>
<td>Rajamangala University of Technology Phra Nakhon</td>
</tr>
<tr>
<td>PISA</td>
<td>The Programme for International Student Assessment</td>
</tr>
<tr>
<td>OECD</td>
<td>The Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>NEA</td>
<td>National Education Act</td>
</tr>
<tr>
<td>LC</td>
<td>Learner control</td>
</tr>
<tr>
<td>OLSE</td>
<td>Online learning self-efficacy</td>
</tr>
<tr>
<td>OLSES</td>
<td>Online learning self-efficacy scale</td>
</tr>
<tr>
<td>CSAP</td>
<td>Computer skills for academic purpose</td>
</tr>
<tr>
<td>CSSP</td>
<td>Computer skills for social purpose</td>
</tr>
<tr>
<td>PCA</td>
<td>Principle Component Analysis</td>
</tr>
<tr>
<td>ANOVA</td>
<td>Analysis of variance</td>
</tr>
</tbody>
</table>
LIST OF TABLES

Table 2.1 Keywords Used in Literature Search ........................................................... 12
Table 2.2 The Definitions of Research Terms Used in this Study ......................... 13
Table 2.3 Sources of Online Learning Self-efficacy in Comparison .................... 20
Table 4.1 Corrected Item-total Correction Value of Items Measuring CSAP .......... 60
Table 4.2 Corrected Item-total Correction Value of Items Measuring CSSP .......... 61
Table 4.3 Corrected Item-total Correction Value of Items Measuring Level of LC .. 63
Table 4.4 The Summary of Items Eliminated from CSAP, CSSP, and LC Scales .... 64
Table 4.5 Original and Improved Cronbach’s Alpha of CSAP, CSSP, and LC Scales 64
Table 4.6 The Summary of Items with Missing Responses in OLSES ................. 65
Table 4.7 Corrected Item-total Correction Value of Items in OLSES and Internal Consistency of OLSES Subscales .......................................................... 66
Table 4.8 The Result of PCA with Eigenvalues Exceeding One ......................... 68
Table 4.9 The Result of PCA with Eigenvalues Exceeding One and Varimax Rotation with Kaiser Normalization ......................................................... 69
Table 4.10 The Result of PCA with Eigenvalues Exceeding Two ....................... 70
Table 4.11 The Result of PCA with Eigenvalues Exceeding Two and Varimax Rotation with Kaiser Normalization ......................................................... 71
Table 4.12 The Summary of Items Retained in OLSES and Their Loading Factors .. 72
Table 4.13 The Refined OLSES and Subscales’ Internal Consistency ................... 73
Table 4.14 Actual Computer, CSAP, and CSSP Skill Levels ............................... 75
Table 5.1 Statistical Analyses Used for this Study ................................................. 82
Table 6.1 Computer Skills for Academic Purpose (CSAP) by Age Groups .......... 94
Table 6.2 Computer Skills for Social Purpose Levels (CSSP) by Age Groups ...... 95
Table 6.3 Participants by Papers according to Year Levels ............................... 99
Table 6.4 Number of Papers Participants Completed by the Time of the Survey ... 99
Table 6.5 All Papers Participants had Studied up until the Time of the Survey ....... 100
Table 6.6 The Relationship between LC and OLSE in Each Year Group ............. 105
Table 6.7 Outcomes of the Relationship in Comparison between Year Groups ...... 105
Table 6.8 The Summary Result of the Simple Linear Regression ....................... 106
Table 6.9 Zero-order and First-order Partial Correlations between LC and OLSE ... 112
Table 6.10 The Correlation Matrix of Variables (Pearson’s Correlation Coefficient) 114
Table 6.11 The Correlation Matrix of Variables (Spearman’s Correlation Coefficient) ................................................................................................................................. 114
Table 6.12 The Summary Result of the Multiple Regression ........................................ 116
Table 6.13 Experience of Students in the Present Programme of Study .................. 120
Table 6.14 Self-efficacy Levels among Participants .................................................. 121
Table 6.15 Statements Indicating Both Types of Supports....................................... 123
Table 6.16 Sources of Online Learning Self-efficacy from this Study in Comparison to
Existing Research................................................................---------------------------- 133
Table 7.1 The Relationship between Learner Control and Online Learning Self-efficacy
within the Subgroup of Perceived and Actual Computer Skills ................. 154
LIST OF FIGURES

Figure 2.1. Levels of learner control and interactivity .......................................................... 37
Figure 2.2. The comparison of learner control and Mayes’ courseware ............................ 38
Figure 3.1. The focus of this study ..................................................................................... 46
Figure 3.2. The theoretical illustration of the relationship between learner control and online learning self-efficacy .............................................................. 48
Figure 3.3. Research variables: the independent, dependent, and confounding variables .......................................................................................................................... 51
Figure 4.1. Proportions of the pilot group by age groups .................................................. 74
Figure 4.2. Proportions of the pilot group by previous online learning experience .... 75
Figure 4.3. The scatter plot between LC and OLSE scores ............................................... 76
Figure 5.1. Qualitative data analysis process .................................................................... 85
Figure 6.1. Proportions of participants by gender ............................................................. 89
Figure 6.2. Proportions of participants by age group ......................................................... 89
Figure 6.3. Participants categorised by age group and gender ........................................ 90
Figure 6.4. Proportions of responses by year groups ....................................................... 91
Figure 6.5. Perceived computer skills by gender ............................................................ 92
Figure 6.6. Computer skills by age groups ..................................................................... 92
Figure 6.7. Levels of computer skills for academic purpose (CSAP) by gender .......... 93
Figure 6.8. Levels of computer skills for social purpose (CSSP) by gender ................. 95
Figure 6.9. Perceived and actual computer skills: CSAP and CSSP (reported in percent) ................................................................................................................... 96
Figure 6.10. Combined scores of CSSP and CSAP in comparison with actual computer skills (reported in percent) ................................................................. 97
Figure 6.11. Proportions of participants by previous online learning experience ...... 97
Figure 6.12. Proportions of participants by delivery modes ............................................ 98
Figure 6.13. Proportions of papers currently enroled by year groups ......................... 98
Figure 6.14. Total papers that participants were studying in both delivery modes .... 100
Figure 6.15. Current, completed, and total papers studied in each year group .......... 101
Figure 6.16. The scatter plot between learner control and online learning self-efficacy ....................................................................................................................... 103
Figure 6.17. The simple regression model (orange line) in comparison to the scatter plot reference line (black line) ................................................................. 107
Figure 6.18. Partial correlation models a) Partly spurious and b) partly indirect relationships ................................................................. 112

Figure 6.19. The correlational model of variables in this study ......................... 115

Figure 6.20. Links between learner control, online learner self-efficacy, and its outcome processes ................................................................. 136

Figure 7.1 Online learners and stage of self-efficacy improvement ..................... 159

Figure 7.2. The embedded framework for supporting successful online learners .... 161