

# CONTENTS

LIST OF FIGURES .....	XIII
LIST OF TABLES.....	XV
<b>GENERAL INTRODUCTION.....</b>	<b>1</b>
I. PRESENTATION.....	3
I.1. RESEARCH QUESTIONS .....	6
I.2. RESEARCH OBJETIVES.....	9
I.3. RESEARCH METHODOLOGY .....	10
I.4. RESEARCH STRUCTURE .....	12
I.5. FORMAL ASPECTS OF RESEARCH.....	14
REFERENCES .....	14
<b>BLOCK I: SYSTEMATIC LITERATURE REVIEWS.....</b>	<b>17</b>
<b>CHAPTER 1: A Systematic Literature Review of Cloud Computing Use in Supply Chain Integration .....</b>	<b>19</b>
1.1. INTRODUCTION.....	21
1.2. METHODOLOGY .....	23
1.3. RESULTS AND DISCUSSION.....	31
1.3.1. DESCRIPTIVE ANALYSIS.....	31
1.3.2. LITERATURE CLASSIFICATION AND ANALYSIS: MAIN TOPICS AND RESEARCH LINES/SUBLINES .....	35
1.3.3. IDENTIFIED GAPS AND PATHS FOR FURTHER INVESTIGATION.....	50
1.4. CONCLUSIONS .....	54
1.4.1. TRENDS AND PROGRESS IN THE FIELD .....	57
1.4.2. MANAGERIAL IMPLICATIONS .....	57
1.4.3. LIMITATIONS .....	58
1.5. SUMMARY .....	59
REFERENCES .....	60
<b>CHAPTER 2: A Systematic Literature Review of Supply Chain Flexibility and Customer Microsegmentation/ Mass Personalization adoption.....</b>	<b>67</b>
2.1. INTRODUCTION.....	69
2.2. METHODOLOGY .....	70
2.3. RESULTS AND DISCUSSION.....	76
2.3.1. DESCRIPTIVE RESULTS.....	77
2.3.2. LITERATURE CLASSIFICATION AND ANALYSIS: MAIN TOPICS, RESEARCH LINES AND RESEARCH SUBLINES.....	81
2.4. CONCLUSIONS .....	95
2.4.1 LIMITATIONS .....	96
REFERENCES .....	97
<b>BLOCK II: EXPLICATIVE ANALYSES .....</b>	<b>103</b>
<b>CHAPTER 3: Lean Production implementation, Cloud-supported Logistics and Supply Chain Integration: Interrelationships and effects on Business Performance .....</b>	<b>105</b>

3.1. INTRODUCTION .....	107
3.2. THEORETICAL BACKGROUND .....	109
3.2.1. LEAN PRODUCTION, IT AND BUSINESS PERFORMANCE .....	109
3.2.2. CLOUD COMPUTING, SUPPLY CHAIN INTEGRATION AND BUSINESS PERFORMANCE .....	110
3.3. HYPOTHESES .....	112
3.3.1. LEAN PRODUCTION IMPLEMENTATION AND BUSINESS PERFORMANCE .....	112
3.3.2. LEAN PRODUCTION IMPLEMENTATION AND CLOUD-SUPPORTED LOGISTICS .....	113
3.3.3. CLOUD-SUPPORTED LOGISTICS AND BUSINESS PERFORMANCE .....	115
3.3.4. CLOUD-SUPPORTED LOGISTICS AND SUPPLY CHAIN INTEGRATION .....	116
3.3.5. SUPPLY CHAIN INTEGRATION AND BUSINESS PERFORMANCE .....	117
3.4. METHODOLOGY .....	118
3.4.1. POPULATION, QUESTIONNAIRE AND DATA GATHERING .....	118
3.4.2. VARIABLES .....	120
3.4.3. DATA ANALYSIS: FACTOR ANALYSIS AND STRUCTURAL EQUATION MODEL .....	124
3.5. ANALYSIS AND RESULTS .....	125
3.5.1. MEASUREMENT MODEL .....	125
3.5.2. STRUCTURAL MODEL AND DISCUSSION OF RESULTS .....	129
3.6. CONCLUSIONS AND FUTURE RESEARCH LINES .....	131
3.6.1. MANAGEMENT IMPLICATIONS .....	133
3.6.2. LIMITATIONS AND FUTURE RESEARCH LINES .....	133
REFERENCES .....	134

**CHAPTER 4: Lean Production Implementation, Mass Personalization and Business Performance: How does Supply Chain Flexibility affect their interrelationships? .....141**

4.1. INTRODUCTION .....	143
4.2. THEORETICAL BACKGROUND .....	143
4.2.1. LEAN PRODUCTION, SUPPLY CHAIN FLEXIBILITY AND BUSINESS PERFORMANCE .....	145
4.2.2. LEAN PRODUCTION, MASS PERSONALIZATION AND BUSINESS PERFORMANCE .....	147
4.2.3. SUPPLY CHAIN FLEXIBILITY, MASS PERSONALIZATION AND BUSINESS PERFORMANCE .....	148
4.3. HYPOTHESES .....	149
4.3.1. LEAN PRODUCTION IMPLEMENTATION AND BUSINESS PERFORMANCE .....	149
4.3.2. LEAN PRODUCTION IMPLEMENTATION AND SUPPLY CHAIN FLEXIBILITY .....	150
4.3.3. LEAN PRODUCTION IMPLEMENTATION AND MASS PERSONALIZATION ..	151
4.3.4. SUPPLY CHAIN FLEXIBILITY AND BUSINESS PERFORMANCE .....	152
4.3.5. SUPPLY CHAIN FLEXIBILITY AND MASS PERSONALIZATION .....	153
4.3.6. MASS PERSONALIZATION AND BUSINESS PERFORMANCE .....	154
4.4. METHODOLOGY .....	155
4.4.1. POPULATION, QUESTIONNAIRE AND DATA GATHERING .....	155
4.2. VARIABLES .....	157
4.4.3. DATA ANALYSIS: FACTORIAL ANALYSIS AND STRUCTURAL EQUATION MODEL .....	160
4.5. ANALYSIS AND RESULTS .....	161
4.5.1. MEASUREMENT MODEL .....	161
4.5.2. STRUCTURAL MODEL .....	163

4.6. DISCUSSION, CONCLUSIONS AND FUTURE RESEARCH LINES.....	167
4.6.1. MANAGEMENT IMPLICATIONS .....	172
4.6.2. LIMITATIONS AND FUTURE RESEARCH LINES .....	173
REFERENCES .....	173
<b>BLOCK III: SIMULATION APPROACH .....</b>	<b>179</b>
<b>CHAPTER 5: Strategic simulation models as a new methodological approach: A decision support tool based on Structural Equations Models and System Dynamics Models.....</b>	<b>181</b>
5.1. INTRODUCTION.....	183
5.2. THEORETICAL REFERENCE .....	184
5.2.1. STRUCTURAL EQUATION MODELS (SEM).....	185
5.2.2. SYSTEM DYNAMICS MODELS (SDM).....	188
5.3. SEM/SDM METHODOLOGICAL PROPOSAL AT A STRATEGIC LEVEL.....	191
5.4. APPLYING THE SEM/SDM METHODOLOGY .....	204
5.4.1 APPLICATION ONE: COMMUNITY CLOUD, SUPPLY CHAIN INTEGRATION AND OPERATIONAL PERFORMANCE .....	204
5.4.2. APPLICATION TWO: INFORMATION TECHNOLOGIES INTEGRATION, LEAN /JUST-IN-TIME AND LEAD-TIME .....	217
5.4. CONCLUSIONS, LIMITATIONS AND FUTURE RESEARCH LINES .....	230
REFERENCES .....	233
<b>CHAPTER 6: A strategic-simulation model for Business Performance: Analysis of factors affecting Supply Chain effectiveness and efficiency .....</b>	<b>235</b>
6.1. INTRODUCTION.....	237
6.2. THEORETICAL BACKGROUND .....	239
6.2.1. SUPPLY CHAIN EFFECTIVENESS FACTORS AND BUSINESS PERFORMANCE.....	239
6.2.2. SUPPLY CHAIN EFFICIENCY FACTORS AND BUSINESS PERFORMANCE .....	240
6.3. METHODOLOGY .....	241
6.4. SEM/SDM APPLICATION.....	257
6.4.1. GENERIC APPLICATION .....	257
6.4.2. SPECIFIC APPLICATION: THE CSLC CASE .....	260
6.5. CONCLUSIONS AND FUTURE DIRECTIONS .....	272
REFERENCES .....	274
<b>CHAPTER 7: GENERAL CONCLUSIONS.....</b>	<b>279</b>
7.1. INTRODUCTION.....	281
7.2. CONCLUSIONS .....	281
7.3. MANAGERIAL IMPLICATIONS .....	285
7.4. RESEARCH LIMITATIONS.....	288
7.5. FUTURE WORK.....	289
<b>GENERAL REFERENCES .....</b>	<b>293</b>
<b>APPENDIX.....</b>	<b>311</b>

