## LIST OF TABLES

<table>
<thead>
<tr>
<th>Table No.</th>
<th>Title of the Table</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Literature Support for Problem Formulation</td>
<td>17</td>
</tr>
<tr>
<td>3.1</td>
<td>Notes on Input Data for the Survey I</td>
<td>25</td>
</tr>
<tr>
<td>3.2</td>
<td>Basic Statistical Data for the Survey I</td>
<td>26</td>
</tr>
<tr>
<td>3.3</td>
<td>Frequencies of Responses for Variable VAR00001 of Survey I</td>
<td>28</td>
</tr>
<tr>
<td>3.4</td>
<td>Frequencies of Responses for Variable VAR00002 of Survey I</td>
<td>29</td>
</tr>
<tr>
<td>3.5</td>
<td>Frequencies of Responses for Variable VAR00003 of Survey I</td>
<td>30</td>
</tr>
<tr>
<td>3.6</td>
<td>Frequencies of Responses for Variable VAR00004 of Survey I</td>
<td>30</td>
</tr>
<tr>
<td>3.7</td>
<td>Frequencies of Responses for Variable VAR00005 of Survey I</td>
<td>31</td>
</tr>
<tr>
<td>3.8</td>
<td>Frequencies of Responses for Variable VAR00006 of Survey I</td>
<td>32</td>
</tr>
<tr>
<td>3.9</td>
<td>Frequencies of Responses for Variable VAR00007 of Survey I</td>
<td>33</td>
</tr>
<tr>
<td>3.10</td>
<td>Frequencies of Responses for Variable VAR00008 of Survey I</td>
<td>34</td>
</tr>
<tr>
<td>3.11</td>
<td>Frequencies of Responses for Variable VAR00009 of Survey I</td>
<td>34</td>
</tr>
<tr>
<td>3.12</td>
<td>Frequencies of Responses for Variable VAR00010 of Survey I</td>
<td>35</td>
</tr>
<tr>
<td>3.13</td>
<td>Frequencies of Responses for Variable VAR00011 of Survey I</td>
<td>36</td>
</tr>
<tr>
<td>3.14</td>
<td>Frequencies of Responses for Variable VAR00012 of Survey I</td>
<td>36</td>
</tr>
<tr>
<td>3.15</td>
<td>Frequencies of Responses for Variable VAR00013 of Survey I</td>
<td>37</td>
</tr>
<tr>
<td>3.16</td>
<td>Frequencies of Responses for Variable VAR00014 of Survey I</td>
<td>38</td>
</tr>
<tr>
<td>3.17</td>
<td>Notes on Input Data for the Reliability Analysis of Survey I</td>
<td>40</td>
</tr>
<tr>
<td>3.18</td>
<td>Case Processing Summary of Survey I</td>
<td>41</td>
</tr>
<tr>
<td>3.19</td>
<td>Reliability Statistics of Survey I</td>
<td>41</td>
</tr>
<tr>
<td>3.20</td>
<td>Inter-Item Correlation Matrix of Survey I</td>
<td>42</td>
</tr>
<tr>
<td>3.21</td>
<td>Inter-Item Covariance Matrix of Survey I</td>
<td>43</td>
</tr>
<tr>
<td>3.22</td>
<td>Summary Item Statistics of Survey I</td>
<td>44</td>
</tr>
<tr>
<td>3.23</td>
<td>Notes on Input Data for the Active Learner Survey II</td>
<td>48</td>
</tr>
<tr>
<td>3.24</td>
<td>Basic Statistical Data for Active Learner Survey II</td>
<td>49</td>
</tr>
<tr>
<td>3.25</td>
<td>Frequencies of Responses for Variable VAR00001 of Active Learner Survey II</td>
<td>49</td>
</tr>
<tr>
<td>3.26</td>
<td>Frequencies of Responses for Variable VAR00002 of Active Learner Survey II</td>
<td>49</td>
</tr>
</tbody>
</table>
4.15 Values of Qualitative Strategies on Lesson 8................................. 103
4.16 Values of Quantitative Metrics on Lesson 8................................. 103
4.17 Values of Qualitative Strategies on Lesson 9................................. 105
4.18 Values of Quantitative Metrics on Lesson 9................................. 107
4.19 Values of Qualitative Strategies on Lesson 10............................... 108
4.20 Values of Quantitative Metrics on Lesson 10............................... 110
4.21 Values of Qualitative Strategies on Lesson 11............................... 111
4.22 Values of Quantitative Metrics on Lesson 11............................... 110
4.23 Values of Qualitative Strategies on Lesson 12............................... 113
4.24 Values of Quantitative Metrics on Lesson 12............................... 115
4.25 Values of Qualitative Strategies on Lesson 13............................... 116
4.26 Values of Quantitative Metrics on Lesson 13............................... 117
4.27 Values of Qualitative Strategies on Lesson 14............................... 119
4.28 Values of Quantitative Metrics on Lesson 14............................... 120
4.29 Learner Allocation of systems for Proposed Experiments.............. 122
4.30 Possible Strategic Component and Deviation Analysis
   for Learning in Lessons 1 and 2................................................. 123
4.31 Possible Strategic Component for Learning in Lessons 3 and 4...... 123
4.32 Possible Strategic Component for Learning in Lessons 5 and 6...... 124
4.33 Possible Strategic Component for Learning in Lessons 7 and 8...... 124
4.34 Possible Strategic Component for Learning in Lessons 9 and 10.... 125
4.35 Possible Strategic Component for Learning in Lessons 11 and 12... 125
4.36 Possible Strategic Component for Learning in Lessons 13 and 14... 126
5.1 Computation of Independent and Conditional
   Probability Values for Adaptive Agents..................................... 132
5.2 Typical instance data recording process of the agent
   Processor for Lesson 1......................................................... 137
5.3 Processing Information and Determination of Learner
   Characteristics of Lesson 1..................................................... 140
5.3a Experimental Result Analysis of Lesson 1................................. 144
5.4 Processing Information and Determination of
   Learner Characteristics of Lesson 2......................................... 145
5.4a Experimental Result Analysis of Lesson 2......................... 149
5.5 Processing Information and Determination of
Learner Characteristics of Lesson 3........................................ 150
5.5a Experimental Result Analysis of Lesson 3.............................. 154
5.6 Processing Information and Determination of
Learner Characteristics of Lesson 4........................................ 155
5.6a Experimental Result Analysis of Lesson 4......................... 159
5.7 Processing Information and Determination of
Learner Characteristics of Lesson 5........................................ 160
5.7a Experimental Result Analysis of Lesson 5.............................. 164
5.8 Processing Information and Determination of
Learner Characteristics of Lesson 6........................................ 165
5.8a Experimental Result Analysis of Lesson 6.............................. 169
5.9 Processing Information and Determination of
Learner Characteristics of Lesson 7........................................ 170
5.9a Experimental Result Analysis of Lesson 7.............................. 174
5.10 Processing Information and Determination of Learner
Characteristics of Lesson 8.................................................. 175
5.10a Experimental Result Analysis of Lesson 8.............................. 178
5.11 Processing Information and Determination of
Learner Characteristics of Lesson 9........................................ 179
5.11a Experimental Result Analysis of Lesson 9.............................. 182
5.12 Processing Information and Determination of
Learner Characteristics of Lesson 10....................................... 183
5.12a Experimental Result Analysis of Lesson 10.............................. 186
5.13 Processing Information and Determination of
Learner Characteristics of Lesson 11....................................... 187
5.13a Experimental Result Analysis of Lesson 11.............................. 191
5.14 Processing Information and Determination of
Learner Characteristics of Lesson 12....................................... 192
5.14a Experimental Result Analysis of Lesson 12.............................. 195
5.15  Processing Information and Determination of
Learner Characteristics of Lesson 13................................. 196
5.15a Experimental Result Analysis of Lesson 13...................... 199
5.16  Processing Information and Determination of
Learner Characteristics of Lesson 14................................. 200
5.16a Experimental Result Analysis of Lesson 14...................... 203