# LIST OF FIGURES

<table>
<thead>
<tr>
<th>FIGURE NO.</th>
<th>TITLE</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Polyhedral set</td>
<td>8</td>
</tr>
<tr>
<td>3.1</td>
<td>A pictorial representation of the original and the reduced models</td>
<td>32</td>
</tr>
<tr>
<td>3.2</td>
<td>Schematic representation of the algorithms</td>
<td>51</td>
</tr>
<tr>
<td>3.3</td>
<td>Comparison of computational time of the original and the reduced models using the Simplex algorithm</td>
<td>54</td>
</tr>
<tr>
<td>3.4</td>
<td>Comparison of computational time of the original and the reduced models using the Multiplex algorithm</td>
<td>54</td>
</tr>
<tr>
<td>3.5</td>
<td>Comparison of the actual and detected redundant constraints</td>
<td>55</td>
</tr>
<tr>
<td>3.6</td>
<td>Comparison of the actual and detected redundant variables</td>
<td>55</td>
</tr>
<tr>
<td>4.1</td>
<td>Schematic representation of the algorithms (Bounded)</td>
<td>83</td>
</tr>
<tr>
<td>4.2</td>
<td>Comparison of computational time of the original and the reduced models using the Simplex algorithm (Bounded)</td>
<td>84</td>
</tr>
<tr>
<td>4.3</td>
<td>Comparison of computational time of the original and the reduced models using the Multiplex algorithm (Bounded)</td>
<td>84</td>
</tr>
<tr>
<td>4.4</td>
<td>Comparison of the actual and detected redundant constraints (Bounded)</td>
<td>85</td>
</tr>
<tr>
<td>FIGURE NO.</td>
<td>TITLE</td>
<td>PAGE NO.</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>4.5</td>
<td>Comparison of the actual and detected redundant variables (Bounded)</td>
<td>85</td>
</tr>
<tr>
<td>5.1</td>
<td>A PERT model of the selection process</td>
<td>103</td>
</tr>
<tr>
<td>6.1</td>
<td>Conceptual design of the developed algorithm</td>
<td>134</td>
</tr>
<tr>
<td>7.1</td>
<td>Basic configuration of the proposed architecture</td>
<td>149</td>
</tr>
</tbody>
</table>