LIST OF TABLES

Table 3.1 Comparison of Segmentation Results ................................................................. 41
Table 3.2 Performance Comparison of Script Recognition Accuracy ............................... 45
Table 4.1 Segmentation Result of the Proposed Vertical Segmentation Approach .......... 64
Table 5.1 The Intensity or Threshold Comparison Table .................................................... 72
Table 5.2 Experimental Conditions during the Recognition Experiment .......................... 84
Table 6.1 Confusion Matrix representing the Performance of the Classifier .................... 105
Table 8.1 Effect of Extreme Values of Design Parameters on Training
   Convergence and Network Generalization ........................................................................ 142
Table 8.2 Learning Parameters of the Neural Network for Performance Test-1 ................. 150
Table 8.3 A Comparison of Gradient Values of the Network for both Experiments ..... 151
Table 8.4 A Comparison of Training Epochs of the Network for both Experiments .... 152
Table 8.5 The Error Levels Attained by the Network Trained in Both Experiments .... 153
Table 8.6 A Comparison of Character Recognition Accuracy ........................................... 154
Table 8.7 Learning Parameters of the Network for Performance Test-2 ........................... 158
Table 8.8 Comparison of Gradient Values of the Network without and
   with Momentum Term for all the Three Experiments ................................................. 159
Table 8.9 Comparison of Number of Training Epochs for all the Three Experiments 160
Table 8.10 Error level attained by the network without and with Momentum
   Term in three Experiments with One, Two and Three Hidden Layers ................. 162
Table 8.11 Character Recognition Accuracy ..................................................................... 164
Table 8.12 Learning parameters for the neural network .................................................... 168
Table 8.13 The behavior of MLP with 'logsig' Function in Hidden Layer ....................... 170
Table 8.14 The Behavior of MLP with 'tansig' Function in Hidden Layer ...................... 171
Table 8.15 The Behavior of MLP with 'purelin' Function in Hidden Layer ................. 172