List of algorithms

2.1 Feature extraction by simple bar mask encoder 16
2.2 Moment invariant method of feature extraction 19
2.3 Process of dilation 22
2.4 New hybrid method of feature extraction (combination of process of dilation and simple bar mask encoder) 23
3.1 Feature extraction 37
3.2 Constructing the feedforward neural network 42
3.3 Final decision module of the modular neural network 43
4.1 Noise introduction in document images 50
4.2 Modified feature extraction 53
4.3 Radial basis neural network algorithm 59
4.4 Probabilistic neural network algorithm 61
4.5 Obtaining the best spread value 64
5.1 Text code extraction 74
5.2 Segmentation of lines 75
5.3 Line code extraction 76
5.4 Segmentation of words / characters (script dependent) 76
5.5 Dynamic feature extractor 78
6.1 Standard genetic algorithm 91
6.2 PR - system -2 94
6.3 GA engine 98
6.4 Fitness function 99
6.5 Converting a selected string (individual) to the subset of selected features 100
6.6 Reproduce 100
6.7 Mate 101
6.8 Crossover 101
6.9 Mutate 102
6.10 BIF engine 106
7.1 GA based nine language script identification system 117
7.2 Spread selector GA engine 118
7.3 Fitness function 119
7.4 Converting a solution string to the spread vector 120
7.5 Genetic-neuro modular classification system 124
7.6 GA engine 125
7.7 Fitness function 126
7.8 Decision module of the system 127
8.1 Multi-script document processing system 139
9.1 Kannada character recognition 154
9.2 Main system 155
9.3 Decompose parts of character 157
9.4 Decompose & recognize_upper_part 158
9.5 Decompose & recognize_subscript 160
9.6 Decompose & recognize_horizontal_part 161
9.7 Recognise_center_part 162
9.8 Reconstruct&_display_character 163
10.1 Bilingual OCR system algorithm 170
10.2 English OCR system 173