

PATTERN RECOGNITION

Introduction to pattern recognition, types of images, regular pattern, irregular pattern, fuzzy methods. Statistical pattern recognition feature selection, syntactic pattern recognition, Clustering and non supervised learning methods.

Combine detection method, edge detection, edge linking, gradient, laplacian, line detection, motion based , point detection snake method.

Boundary description, detection, matching, merging, segmentation, smoothing, splitting of boundaries syntactic, analysis of region boundaries, study of shape by region analysis.

Explanation of how fuzzy approach can be applied to pattern recognition, classscificatory analysis preprocessing, feature detection and primitive extraction, adaptive classification of fuzzy grammar.

Algorithms of pattern recognition, neural network fundamentals, approach for pattern recognition.