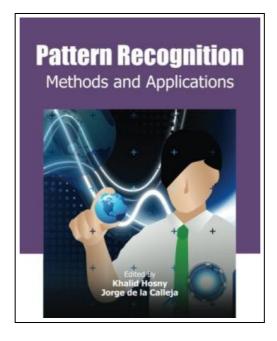
# Pattern Recognition: Methods and Applications (Paperback)



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Createspace, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*\*. Pattern recognition - Methods and Applications includes contributions from university educators and active research experts. This book is intended to serve as a basic reference on pattern recognition, especially on the topics related to image and graphics processing, shape analysis, text processing, and bioinformatics analysis. Chapter 1 proposes a review of traditional outlier detection methods and their recent enhancements. Some particular data representations are presented. A case-study based on a synthetic data is proposed in order to demonstrate the potential of a fuzzy logic approach which combines several techniques. Chapter 2 studies the conditions for which the solution given by the Maximum Entropy Principle is equivalent to that given by Support Vector Machines. It describes a unifying framework that computes the probability density function and the optimal separating surface from examples. Chapter 3 presents techniques for building multi-sensor fusion classifiers. A pairwise diversity-based ranking strategy is introduced to select a subset of ensemble components, which when combined, will be more diverse than any other component subset of the same size. Chapter 4 proposes a neural-network-based differential evolution approach for face recognition (FR). The approach combines neural network classifiers and differential evolution updates, applies both 2D texture and 3D surface feature vectors, and effectively enhance the FR performance. Chapter 5 proposes an efficient margin-based linear embedding method that exploits the nearest hit and the nearest miss samples only. Chapter 6 proposes an efficient algorithm to construct the skeleton of a binary image as a geometric graph whose edges are Bezier curves 1 and 2 degrees. Chapter 7 presents a novel structured light means with no coding procedure involved. By projecting a binary rhombic pattern, and computing the 3D surface normal at



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