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Thinning is a technique widely used in the pre-processing stage of a pattern recognition system to compress data and to enhance feature extraction in the subsequent stage. It reduces a digitized pattern to a skeleton so that all resulting branches are 1 pixel thick.

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vectorization algorithms often used in pattern recognition tasks also require one-pixel-wide lines as input. Naturally, for a thinning algorithm to be really effective, it should ideally compress data, retain significant features of the pattern, and eliminate local noise without introducing distortions of its own.

## **Thinning methodologies-a comprehensive survey - Pattern ...**

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Methodologies of Pattern Recognition is a collection of papers that deals with the two approaches to pattern recognition (geometrical and structural), the Robbins-Monro procedures, and the implications of interactive graphic computers for pattern recognition methodology. Some papers describe non-supervised learning in statistical pattern ...

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Thinning of shape has a wide range of application in image processing, machine vision, and pattern recognition. But removal of spurious strokes or shape deformation in thinning is a difficult problem. In the past several decades many thinning algorithms have been developed considering all these problems (Lam et al., 1992, Vincze and

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Kovári, 2009). They are broadly classified into two groups: raster scan-based and medial axis-based.

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## **What is the best method of pattern recognition?**

Pattern recognition is the automated recognition of patterns and regularities in data. It has applications in statistical data analysis, signal processing, image analysis, information retrieval, bioinformatics, data compression, computer graphics and machine learning. Pattern recognition has its origins in statistics and engineering; some modern approaches to pattern recognition include the use ...

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## **Pattern recognition - Wikipedia**

Signal Processing 7 (1984) 79-80 North-Holland 79 BOOK ALERTS Signal Theory and Random Processes Subspace Methods of Pattern Recognition Harry URKOWITZ, Principal Member of the Engineering Staff, RCA Government Systems Division, Moorestown, New Jersey and Adjunct Professor, Dept. of Electrical and Computer Engineering, Drexel University, Philadelphia, Pennsylvania, U.S.A.

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Ching Y. Suen is the author of Thinning Methodologies for Pattern Recognition (0.0 avg rating, 0 ratings, 0 reviews, published 1994), Computational Studi...

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5 Ogawa, H. and Tanguchi, K. Thinning and stroke segmentation for handwritten Chinese character recognition. Pattern

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Recognition 15, 4 (1982), 299-308. Google Scholar Cross Ref; 6 Pavlidis, T. A Flexible Parallel Thinning Algorithm. Proc. IEEE Comput. Soc. Conf. on Pattern Recognition and Image Processing. Aug. 1981, pp. 162-167. Google Scholar

### **A fast parallel algorithm for thinning digital patterns ...**

Discrimination and quantification of volatile organic compounds (VOCs) using a non-selective sensor requires a combination of sensors followed by pattern recognition methods. Based on this concept, this paper deals with the discrimination of gas from the responses of several gas sensors coated with different type of polymer.

### **Thin Film Coated QCM-Sensors and Pattern Recognition ...**

Thin Film Coated QCM-Sensors and Pattern Recognition Methods for Discrimination of VOCs S. Sahli Omar C. Lezzar, A. Bellel\*, M. Boutamine  
Laboratoire des Etudes de Matériaux



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## **Thin Film Coated QCM-Sensors and Pattern Recognition ...**

The stroke analysis method is a powerful approach to recognizing certain types of digital patterns such as al-phanumeric characters and ideographs. It should be noted that the strokes thinned by hardware or software are accompanied by different kinds of distortion.

## **RESEARCH CONTRIBUTIONS A Fast Parallel Algorithm for ...**

Ensembles of climate model simulations are commonly used to separate externally forced climate change from internal variability. However, much of the information gained from runni

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