Thinning Methodologies For Pattern Recognition

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RESEARCH CONTRIBUTIONS A Fast Parallel Algorithm for ...
Thinning plays a crucial role in image analysis and pattern recognition applications. It is one of the most frequently used pre-processing methods to analyze different types of images. Thinning...

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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...

Thinning Methodologies For Pattern Recognition by Ching ...
Thinning Methodologies for Pattern Recog (Machine Perception and Artificial Intelligence) [Ching Yee Suen, Patrick S P Wang] on Amazon.com. *FREE* shipping on qualifying offers. 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.

An Iterative Thinning Algorithm for Binary Images Based on ...
An essential step in character recognition is to extract the skeleton characteristics of the character. In this paper, an efficient algorithm is proposed to extract visually satisfactory skeleton f...

(PDF) Image analysis and pattern recognition for porosity ...
Thinning algorithms are widely used in pattern recognition. This processing stage is implemented on serial machines as well as on parallel machines. We can find two classes of thinning algorithms in the literature. The first class is composed of strongly sequential algorithms, based on contour tracing of the objects to be thinned.

Thinning Methodologies For Pattern Recognition
Thinning is a technique widely used in the preprocessing stage of a pattern recognition system to compress data and to enhance feature extraction in the subsequent stage. It is a process which reduces a digitized pattern to a skeleton so that all resulting branches are of only 1 pixel thickness.

Thinning Methodologies for Pattern Recognition | Series in ...
Thinning Methodologies For Pattern Recognition by Ching Yee Suen · OverDrive (Rakuten OverDrive): eBooks, audiobooks and videos for libraries 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.

A SYSTEMATIC EVALUATION OF SKELETONIZATION ALGORITHMS ...
Detection of wall thinning in piping systems in power generating plants is becoming more important as the time in service increases and deterioration by corrosion and erosion accumulates ... “Analysis of Eddy Current Data using Pattern Recognition Methods,” IEEE 5th Joint Conference on Pattern Recognition, Miami, Florida, pp. 137–139.

METHODOLOGIES FOR EVALUATING THINNING ALGORITHMS FOR ...
The methodologies ap- Image pattern recognition methodologies plied in statistical pattern recognition can be sub- divided into non-parametric, parametric, and sequen- tial classifications. However, two other major decision. making approaches exist, the clustering analysis, and those which are based on fuzzy set reasoning.

Thinning methodologies-a comprehensive survey - Pattern ...
International Journal of Pattern Recognition and Artificial Intelligence Vol. 07, No. 05, pp. 1247-1270 (1993) Evaluation of Thinning Algorithms No Access METHODOLOGIES FOR EVALUATING THINNING ALGORITHMS FOR CHARACTER RECOGNITION

Ching Y. Suen (Author of Thinning Methodologies for ...
Series in Machine Perception and Artificial Intelligence Thinning Methodologies for Pattern Recognition, pp. 239-261 (1994) No Access. A SYSTEMATIC EVALUATION OF SKELETONIZATION ALGORITHMS. SEONG-WHAN LEE ... Centre for Pattern Recognition and Machine Intelligence, GM-606, Concordia University, 1455 de Maisonneuve Blvd. West, Montreal, Quebec ...

THINNING CHARACTER USING MODULUS MINIMA OF WAVELET ...
Pattern recognition using correlation analysis (Cij) method is useful for non-destructive testing of physical objects, including pipes. An evaluation of the technique based on Computer Simulation Technology (CST) models has demonstrated the advantages of using the technique to detect and classify pipe wall thinning (PWT) in pipes.

A robust parallel thinning algorithm for pattern recognition
Image analysis and pattern recognition for porosity estimation from thin sections Conference Paper (PDF Available) in SEG Technical Program Expanded Abstracts 25(1) · January 2006 with 729 Reads

Pattern Recognition of Ultrasonic Signals for Detection of ...
Chen and W. H. Hsu, A modified fast parallel algorithm for thinning digital patterns, Pattern Recog. ... Suen and P. S. P. Wang, Thinning Methodologies for Pattern Recognition Series in Machine Perception and Artificial Intelligence (World Scientific Pub. Co. Inc., ...

Thinning methodologies for pattern recognition (Book, 1994 ...
IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, VOL.14, NO. 9, SEPTEMBER 1992 869 Thinning Methodologies-A Comprehensive Survey Louisa Lam, Seong-Whan Lee, Member, IEEE, and Ching Y. Suen, Fellow, IEEE Abstract-This article is a comprehensive survey of thinning

MAT-Based Thinning for Line Patterns | International ...
A Fast Parallel Algorithm for Thinning Digital Patterns T. Y. ZHANG and C. Y. SUEN ABSTRACT: A fast parallel thinning algorithm is proposed ... It is well known that the general problem of pattern recognition lies in the effectiveness and efficiency of ... Different Parallel Thinning Algorithms Method Pattern Four-Step Two-Step Our Algorithm B ...

INVARIANT THINNING | Thinning Methodologies for Pattern ...
Summary: 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.

A PARALLEL THINNING ALGORITHM USING THE BOUNDING BOXES ...
It aims to find the onepixel midline of the pattern in binary image. In spite of different thinning methods that have been proposed, the existing methods are not capable of solving all thinning problems. In this work, a new iterative thinning method for binary images was proposed based on a hybrid technique of sequential and parallel approaches.

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