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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.

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Keywords-Pattern Recognition, Texture, Neural Networks, Classification. 1. Introduction In machine learning, pattern recognition is the assignment of some sort of output value (or label) to a

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

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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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