To 1998 OSA Annual Meeting

Multilayer Neural Network with Fuzzy Controlling Learning System for Optical Image Recognition

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Abstract
A fast learning method for optical image recognition using fuzzy controlling is proposed. By the fuzzy controlling theory, the learning rate and nonlinear coefficient in back propagation algorithm are adjusted accordingly based on the training error and training time. The effectiveness of this learning method is demonstrated in optical pattern training.

Oral Presentation preferred
OSA Division: Information Processing Division: Image Processing
Symposium: Information Processing (IP)