

Convolutional Neural Networks for Pattern Recognition

RM18.60



ISBN : 978-967-0257-80-8

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Synopsis :

The Convolutional Neural Network (CNN), a variant of the Multilayer Perception (MLP), has shown promise in solving complex recognition problems, particularly in visual pattern recognition. However, the classical LeNet-5 CNN model, which most solutions are based on, is highly compute-intensive. This CNN also suffers from long training time, due to the large number of layers that ranges from six to eight. In this research, a CNN model with a reduced complexity is proposed for application in face recognition and finger-vein biometric identification.

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