

Transfer Learning of Convolutional Neural Networks*

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Abstract

This paper briefly describes the development process, architecture, and learning principle of convolutional neural networks. An example training of a model trained from scratch and a model using transfer learning with a small dataset is presented. Using the examples presented, the idea and purpose of using transfer learning are explained, as well as its importance in counteracting overfitting.

Keywords: convolutional neural networks, neural networks, transfer learning, computer vision, image recognition