Study of Convolutional Neural Network

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Abstract: *The success of traditional methods for solving computer vision problems heavily depends on the feature extraction process. But Convolutional Neural Networks (CNN)have provided an alternative for automatically learning the domain specific features. Now every problem in the broader domain of computer vision is re-examined from the perspective of this new methodology. In deep learning, Convolutional Neural Networks (CNN) are found to give the most accurate results in solving real world problems such as several engineering fields, including array processing, wireless communications, medical signal processing, speech processing and biomedical engineering. The availability of a large amount of data and improvement in the hardware technology has accelerated the research in CNNs. This paper intends to provide a detail study over basic concepts of CNN and its applications.*

Keywords: Convolutional Neural Networks, Machine Learning, computer vision, deep leaning, Machine learning

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