大数据课程助教笔记

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Chapter 1

Google Brain

1.1 Motivation

- What Google Brain can not do? Or, where does neural networks fail?
- What is Google Brain? What is its contribution?
- Can computer recognize objects from partially images? For example, human eyes for faces?

1.2 Building high-level features using large scale unsupervised learning

1.2.1 Excerpt

To avoid duplicates,each video contributes only one image to the dataset.

The training material is prepared as this.Is it reasonable?

It is worth noting that our network is still tiny compared to the human visual cortex, which is 106 times larger in terms of the number of neurons and synapses (Pakkenberg et al., 2003).

The neurons in the brain are different from 'nurons' in this model. How do they learn the parameters? How do they implement the optimal learning?

And a cite [ED10]

Bibliography

[ED10] Hüseyin Erişti and Yakup Demir. A new algorithm for automatic classifi-
cation of power quality events based on wavelet transform and {SVM}.
Expert Systems with Applications, 37(6):4094 -- 4102, 2010.