Toward Errorless Training ImageNet-1k

The ImageNet-1k dataset contains 1,281,167 training images comprising of 1,000 classes. It is a widely used benchmarking dataset for testing image classification A.I. models. In this talk, we present a model trained on this dataset using new methods introduced by Bo Deng in *Error-free training for artificial neural network*. The model achieves 98.3% accuracy with 322,430,160 parameters. Prior to our work, the most accurate model had 91.0% accuracy with 2.1 billion parameters.

We will begin the talk with an introduction to artificial neural networks. No background in A.I. or machine learning will be assumed.