Face recognition is one of the most common biometric authentication methods as its feasibility while convenient use. Recently, the COVID-19 pandemic is dramatically spreading throughout the world, which seriously leads to negative impacts on people's health and economy. Wearing masks in public settings is an effective way to prevent viruses from spreading. However, this simple action can make face recognition challenging.

Introduction

Artificial neural networks are...
relatively crude electronic networks of neurons based on the neural structure of the brain. They process records one at a time, and learn by comparing their classification of the record (i.e., largely arbitrary) with the known actual classification of the record. The errors from the initial classification of the first record is fed back into...
function, NN-enabled machines (including the smartphones and computers that we use on a daily basis) are now trained to learn, recognize patterns, and make predictions in a humanoid…Creating Deep Learning - Artificial Neural Networks (ANN) model. Finding best set of parameters using manual grid search. Being a senior data scientist he is responsible for designing the AI/ML solution to provide maximum gains for the clients. As a thought leader, his focus is on solving the key business problems of the CPG Industry. This IARPA MICrONS dataset spans a 1.4mm x .87mm x .84 mm volume of cortex in a P87 mouse. It is 400x larger than the previously released Phase 1 dataset, which can be found here. The dataset was imaged using two-photon microscopy, microCT, and serial electron microscopy, and then reconstructed using a combination of AI and human proofreading. In this section, we use a 2D homogeneous reservoir model with a grid composed of 25 by 25 cells in the x and y directions. The grid dimension is 300ft by 300ft by 33.3ft in the x, y and z directions, respectively. As shown in Fig. 3, there is a CO2 injection well in the center of the reservoir at grid cell (13, 13), and a water production well in the lower right corner at grid cell (23, 23). Convolutional neural networks (CNNs) have achieved significant success in image classification by utilizing large-scale datasets. However, it is still of great challenge to learn from scratch on In deep learning, a convolutional neural network (CNN, or ConvNet) is a class of artificial neural network (ANN), most commonly applied to analyze visual imagery. CNNs...
are also known as Shift Invariant or Space Invariant Artificial Neural Networks (SIANN), based on the shared-weight architecture of the convolution kernels or filters that slide along input features and provide …

Neural machine translation is a relatively new approach to statistical machine translation based purely on neural networks. The neural machine translation models often consist of an encoder and a...