

YaNan Cui

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Education

Nanjing University (NJU), Nanjing China

Master of Cartography and Geographic Information System

Sep 2016 - Jun 2019

Nanjing University (NJU), Nanjing, China

Bachelor of Geographic Information Science (GIS)

Sep 2012 - Jun 2016

Research Interest

Remote sensing, machine learning, deep learning, computer vision, cryptocurrency/blockchain

Skills

Mathematical skills

- A good understanding of CNN, SVM, FLD, PCA at the mathematical level.
- Familiar with linear algebra, such as Schur Complement, LU Decomposition, QR Decomposition, Eigenvalue Decomposition and Singular Value Decomposition(SVD).
- Familiar with probability and statistics, such as Normal Distribution and three big sample distribution: Chi-Square distribution, Student t-distribution and F distribution, which are useful in statistical hypothesis testing.
- Have some basics on optimization, such as Gradient Descent in Logistic Regression and dual problems in Support Vector Machine(SVM).

Coding skills

- Familiar with Data Structure and Algorithms, such as Binary Search Tree (BST) and graph algorithms.
 - Familiar with Python/Matlab/R/C/C++/ArcGIS/Envi/Origin and have a few hands-on pytorch and scikit-learn experiences
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