Xin Wang

Introduction

I'm a Ph.D candidate in the Textile Institute at Donghua University in Shanghai, China.
My research interests lie at the understanding of fashion images, text descrptions and fashion compatibility and recommendation based on different modalilites of information.

Researches & Projects

Time	Aug 2018 — Mar 2019
Location	JD AI Research
Title	Outfit Compatibility Prediction and Diagnosis with Multi-Layered Comparison Network (ACM MM19 Under Review)
Tools	Python, PyTorch

Propose to not only predict the compatibility of fashion outfit but also diagnose the incompatible factor in it. Our method features for: (1) learn outfit compatibility from all pairwise similarities. (2) Leverage the feature hierarchy of CNN to provide both low-level and high-level features for prediction and diagnosis. (3) Use gradients to approximate the importance of each input similarity for explanation.

Time	Oct 2017 — Jul 2018
Title	Fabric Idenfication using Convolutional Neural Network (AIFT2018)
Tools	Python, TensorFlow

Propose to retrieve fabric texture with deep extracted features, which is implemented with a CNN with softmax cross entropy and centor loss. Code: `https://github.com/WangXin93/FabricID`

Time	Mar 2018 — Jul 2018
Title	FashionAI Global Challenge
Tools	Python, PyTorch

Recognize 8 fashion attribute with convolutional neural network. We go through the first round and achieve 66th in the second round. Code: `https://github.com/WangXin93/torchfashion`

Time	Jul 2018
Title	JD AI Fashion-Challenge Style Recognition
Tools	Python, PyTorch

Multi-labeled prediction of 13 styles of female fashion images. I finetune the threshold of different labels and use SWA to improve the performance, finally achieve 4th place in the competition.

North Renmin Road Number 2999 Building 3 · Songjiang · Shanghai
✉ wangxin19930411@163.com ☎ (+86) 133-9148-8435 github.com/WangXin93

Education

Time	Sep 2015 — Current
Degree	Digital Textile Engineering (Ph.D)
Course	Numerical analysis, Computer graphics, Computer vision, Self-educated: CS231n, CS20SI, Machine Learning, Python
University	Donghua University Shanghai, China

Time	Sep 2011 — Jul 2015
Degree	Textile Engineering (B.S.)
Courses	Advanced mathematics, Linear algebra, Probability theory and mathematical statistics
University	Langzhou University of Technology Gansu, China

Skills

Computer Language	Intermediate: Python; Basic: C/C++, Bash, Matlab, SQL
Deep Learning Framework	TensorFlow, PyTorch
Tools	Git, Vim, LaTeX, Scrapy, Scikit-learn, Sed, Awk

North Renmin Road Number 2999 Building 3 · Songjiang · Shanghai
✉ wangxin19930411@163.com ☎ (+86) 133-9148-8435 github.com/WangXin93