Xiaoqing Li

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Research interests

Image Retrieval and Machine Learning. My research focuses on using deep learning to improve the accuracy of fine-grained image retrieval, and involves related areas such as self-supervised learning and model pre-training.

Education

Peking University Beijing, China
PhD in Applied Mathematics 09/2016–07/2021
Advisor: Jinwen Ma

Ocean University of China Qingdao, China
BA in Information and Computing Science 09/2012–07/2016

Employment

Lecturer,
School of Statistics,
Capital University of Economics and Business, Beijing, China, since July 2021.

Honors and scholarships

Outstanding research award of Peking University (Peking University) 2020
Qian Minping First Class Scholarship (Peking University) 2020
"AI Challenger" short video real-time classification track biweekly runner-up (Sinavation ventures, Sogou and Toutiao) 2020

Publications

Fine-grained image retrieval by combining attention mechanism and context information
Xiaoqing Li, Jinwen Ma.
Neural Computing and Applications, 2023.

On wine label image data augmentation through viewpoint based transformation
Xiaoqing Li, Xiaochang Zhang, Zijia Cai, Jinwen Ma.
Journal of Signal Processing, 2022.

Distributed search and fusion for wine label image retrieval
Xiaoqing Li, Jinwen Ma.
PeerJ Computer Science, 2022.

Recent developments of content-based image retrieval (CBIR)
Xiaoqing Li, Jiansheng Yang, Jinwen Ma.
Neurocomputing, 2021.

Large scale category-structured image retrieval for object identification through supervised learning of CNN and SURF-based matching
Xiaoqing Li, Jiansheng Yang, Jinwen Ma.
IEEE Access, 2020.

CNN-sift consecutive searching and matching for wine label retrieval
Xiaoqing Li, Jiansheng Yang, Jinwen Ma.
Intelligent Computing Theories and Application: 15th International Conference, ICIC 2019.

Manuscript

A self-supervised pre-trained method for fine-grained image retrieval
Xiaoqing Li, Ya Wang.
preprint to be submitted.

Teaching experience

Unstructured data analysis and modeling	Fall 2022
Big data application case analysis	Fall 2022
Unstructured data analysis and modeling	Spring 2023
Unstructured data analysis and modeling	Fall 2023

Service

Served as reviewer for Neural Computing and Applications, Journal of Signal Processing, IEEE Access, Mathematical Biosciences and Engineering, International Conference on Intelligent Computing, International Conference on Neural Information Processing.

memberships

Member of Chinese Institute of Electronics since 2020

Skills

Programming
Proficient in: Python
Familiar with: C++

Languages
English (CET6 482)

Other interests

Climbing, Hiking.