Yiming XU

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EDUCATION

2015~2019 **Henan University**
BEng Computer Science and Technology
Overall Average: 85%

SKILLS AND QUALIFICATIONS

Computer: Proficiency in:
Programming Languages
Python, C, C++, C#
MATLAB, Java, Scala, R:
PHP, HTML+CSS, SQL, ASPNET, and LATEX.
☐ ***Platform & tools***
TensorFlow, PyTorch, MATLAB;
Pycharm, Atom, Sublime Text, Eclipse, Git;
Ubuntu Linux mint. Windows, MacOS etc.

Language: IELTS (19/12/2019): Overall 6.0, Listening 5.5, Reading 5.5, Writing 6.5, Speaking 6.0

PUBLICATIONS

Title: Fine-Grained Label Learning via Siamese Network for Cross-modal Information Retrieval (First Author)
Journal: International Conference on Computational Science
Released time: 06/2019

Xu, Y., Yu, J., Guo, J., Hu, Y., & Tan, J. (2019, June). Fine-Grained Label Learning via Siamese Network for Cross-modal Information Retrieval. In International Conference on Computational Science (pp. 304-317). Springer, Cham. [*Link*]

Title: Low Rank variation Dictionary and Inverse Projection Group Sparse Representation Model for Breast Tumor Classification (Under Review)

Yang, X., Jiang, X., Wu, W., Zhang, J., Long, D., Zhou, F., & Xu, Y. (2018). Low Rank Variation Dictionary and Inverse Projection Group Sparse Representation Model for Breast Tumor Classification. *arXiv preprint arXiv:1803.04793.* [*Link*]

INTERNSHIP EXPERIENCE

Intern of Institute for Information Engineering, Chinese Academy of Science (CAS)
Sep.2018~now

- Design a siamese network to learn fine-grained labels for both the positive and negative examples to capture the degrees of hardness, thus enhancing cross-modal correlation learning.
- Introduced these labels to a rank-based pairwise similarity loss function.
- Achieved significant improvements on the retrieval performance by incorporating with fine-grained labels.

PROJECT EXPERIENCE

Video Events & MOOC Content Search *github.com/YimingXu1/videoEventSearch*
Intern of Institute for Information Engineering, Chinese Academy of Science
Jul.2019 ~ Oct.2019

- Sampled frames from each video, every few seconds and generates natural language

captions for each frame using DenseCap.
- Indexed these captions as documents along with the corresponding video URL and timestamp.
- Retrieved the caption that best matches the user's search query, along with the video and the precise timestamp, within the video associated with the caption.

Automatic Check-in System with Face Recognition *github.com/YimingXu1/ROSTFFaceRec*
School of Mathematics and Statistics, Henan University
Dec.2017~Jan.2018
- Trained Deep Neural Networks for the classification of over 10 people with decent accuracy
- Used Raspberry Pi for face recognition and employed Deep Learning models

Deep Learning for Face Recognition
School of Mathematics and Statistics, Henan University
Dec.2017~Jan.2018
- Used Tensorflow for the evaluation of Deep Learning methods for face recognition with occlusion
- Constructed Convolutional Neural Networks (CNNs)
- Evaluated on face samples in Augmented Reality (AR)

Vision-Guided Navigation of Autonomous Cars with Deep learning
Department of Computer Science, Henan University
Mar.2017~Sep.2017
- Analysed and reconstructed of 3D environment from images captured by Kinect 2
- Implemented and compared some state-of-the-art SLAM methods

HONORS AND AWARDS

Outstanding graduate thesis Award, Henan University (1%)	07/2019
Excellent Graduation Interns, Henan University	07/2019
University Merit Award, Henan University	2018
Second Prize (Province-wide), Mathematical Contest in Modelling (MCM/ICM), USA	2018
Provincial Third Prize & University Outstanding Award, Internet+ Innovation Contest	2017
Provincial First Prize, China Undergraduate Contest in Mathematical Modelling	2016
Provincial Third Prize, Lan Qiao Cup Undergraduate Java Programming Contest	2016