Yun Gu

PERSONAL DETAILS

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EDUCATION

Visiting Student 2016–present
Imperial College London, London, UK

PhD. Biomedical Engineering 2015–present
Shanghai Jiao Tong University, Shanghai, China
Thesis Title: *Discriminative Feature Learning for Medical Image Analysis*

MEng. Automation 2013–2015
Shanghai Jiao Tong University, Shanghai, China
Thesis Title: *Multimodal Feature Analysis for Image Understanding*

BEng. Automation 2009–2013
Xi'an Jiao Tong University, Shanxi, China

* The expected graduation date of my PhD is 2019.6.

SKILLS

Languages	Chinese (mother tongue), English (IELTS 7.0)
Programming	Matlab, C++, Python
Frameworks	OpenCV, PyTorch, ITK

RESEARCH EXPERIENCE

PhD student 2015.9–present
Shanghai Jiao Tong University

Project: Discriminative Feature Learning for Medical Image Analysis

- Multimodal domain adaptation for endomicroscopy image retrieval and classification
- Deep learning for surgical thread detection
- Error-driven adaptive learning for cardiac anatomy segmentation

MEng Project 2013.09–2015.09
Shanghai Jiao Tong University

Project: Large-scale Multimedia Retrieval and Recognition

- Developed a video hashing algorithm based recurrent neural network
- Developed a multimodal hashing algorithm with incomplete views
- Developed an image annotation framework exploiting visual and textual saliency

Undergraduate Project 2013.01–2013.06
Xi'an Jiao Tong Unviersity

Project: Smartgrid Cyber Security

- Developed a fraud data detection algorithm for malicious attack in smart grid.

CONFERENCES

IEEE/RSJ IROS 2018, Spain 2018
IEEE/RSJ International Conference on Intelligent Robots and Systems
MICCAI 2018, Spain 2018
International Conference on Medical Image Computing and Computer Assisted Intervention
MICCAI 2017, Canada 2017
International Conference on Medical Image Computing and Computer Assisted Intervention
ACM MM 2016, Netherlands 2016
ACM Multimedia Conference
IEEE CVPR Workshop 2016, USA 2016
International Conference on Computer Vision and Pattern Recognition

PUBLICATIONS

Gu, Y., Vyas, K., Yang, GZ., "Transfer Recurrent Feature Learning for Endomicroscopy Image Classification", *IEEE Transactions on Medical Imaging* , 2018.

Gu, Y., Xue, H., Yang, J., "Cross-modal saliency correlation for image annotation ", *Neural Processing Letters* , 2017.

Gu, Y., Li, Q., Qian, X., "Image Annotation by Latent Community Detection and Multiple Kernel Learning", *IEEE Transactions on Image Processing* , 2015.

Gu, Y., Yang, H., Zhang, L., Yang, J., Yang, GZ., "Cross-scene Suture Thread Parsing

for Robot Assisted Anastomosis based on Joint Representation Learning", *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)* , 2018.

Gu, Y., Vyas, K., Yang, J., Yang, GZ., "Weakly-supervised Representation Learning for Endomicroscopy Image Analysis", *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)* , 2018.

Gu, Y., Vyas, K., Yang, J., Yang, GZ., "Unsupervised Feature Learning for Endomicroscopy Image Retrieval", *International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)* , 2017.

Gu, Y., Yang, J., Yang, GZ., "Multi-View Multi-Modal Embedding for Endomicroscopy Mosaics Classification", *IEEE CVPR Workshop on Computer Vision for Microscopy Image Analysis* , 2016.

Gu, Y., Ma, C., Yang, J., "Supervised Recurrent Hashing for Large Scale Video Retrieval", *ACM Multimedia* , 2016.

Gu, Y., Xue, H., Yang, J., "Cross-modality Hashing with Partial Correspondence", *IEEE International Conference on Image Processing* , 2015.

Gu, Y., Xue, H., Yang, J., "Automatic Image Annotation Exploiting Visual and Textual Saliency", *International Conference on Neural Information Processing* , 2014.

Gu, Y., Liu, T., Wang, D., "Bad Data Detection Method for Smart Grid Based on Distributed State Estimation", *International Conference on Communications* , 2013.

Gu, Y., Vyas, K., Yang, GZ., "Deep Active Learning for Biomedical Image Analysis with Diverse-level Experts", *IEEE Transactions on Image Processing* **(Under Review)**, 2018.

Gu, Y., Vyas, K., Yang, GZ., "Deep Multimodal Feature Embedding for Endomicroscopy Image Retrieval", *IEEE Transactions on Cybernetics* **(Under Review)**, 2018.

Hu, Y.* Gu, Y.*, Yang, GZ., "Multi-stage Learning for Surgical Thread Detection", *IEEE International Conference on Robotics and Automation (ICRA)* **(Equal Contribution)**, 2018.