

Mengran Gou

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Objective

I wish to work on application-oriented problems that directly impact end users, where my real-world problem solving skills can be best leveraged. Additionally, I am a quick learner, independent researcher and engineer, and a team player. I am always positive, open, and flexible to new problems and challenges.

Education

Northeastern University

PH.D IN ELECTRICAL ENGINEERING

Advisor: Octavia Camps

Expected Jan. 2018

Boston, USA

The Pennsylvania State University

M.S IN ELECTRICAL ENGINEERING

Advisor: Constantino Lagoa

Aug. 2012

State College, USA

Harbin Institute of Technology

B.E IN AUTOMATION

July. 2010

Harbin, China

Expertises

Problem Human Analytics, Video Surveillance, Person Re-Identification, Time Series Analytics

Algorithm Metric Learning, Statistical Modeling, Deep Learning (classification and segmentation)

Language *Expert:* Python, C++, Caffe; *Intermediate:* Tensorflow, CUDA, R

Research

PERSON RE-IDENTIFICATION (RE-ID)

2013 - Present

- Delivered a real-time end-to-end re-id system in Cleveland Hopkins International Airport
- Developed novel features and metric learning methods to improve the state-of-the-art performance
- Proposed two largest realistic re-id datasets to facilitate the research in community.
- Built a systematic evaluation benchmark and maintained a website to collect most publicly available re-id datasets (17,000+ visits as of July 2017).

MEDICAL VIDEO MOSAIC

2014 - Present

- Collaborated with researchers and clinicians at Memorial Sloan Kettering Cancer Center to develop a robust and fast video mosaic method for reflectance confocal microscopy images.
- Delivered a fast video mosaic software to the hospital.

Work Experience

Siemens Healthcare Solutions

Princeton, NJ

RESEARCH INTERNSHIP

May. 2017 - Present

- Developing deep learning algorithm to solve fine-grained classification and semantic segmentation problems

Publications

- **Mengran Gou***, Srikrishna Karanam*, Ziyang Wu, Angels Rates-Borras, Octavia Camps, Richard J. Radke. "A Comprehensive Evaluation and Benchmark for Person Re-Identification: Features, Metrics, and Datasets", under revision in IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

- **Mengran Gou***, Kivanc Kose*, Oriol Yelamos, Miguel Cordova, Anthony Rossi, Eileen Flores, Kishwer Nehal, Octavia Camps, Jennifer Dy, Dana Brooks, Milind Rajadhyaksha. “Automated video-mosaicking approach for confocal microscopic imaging in-vivo: an approach to address challenges in imaging living tissue and extend field-of-view”, Scientific Reports, in press
- **Mengran Gou**, Octavia Camps, Mario Sznaier. “moM: Mean of Moment Feature for Person Re-identification”, ICCV Workshop 2017
- **Mengran Gou**, Srikrishna Karanam, Wenqian Liu, Octavia Camps, Richard J. Radke. “DukeMTMC4ReID: A Large-Scale Multi-Camera Person Re-Identification Dataset”, CVPR Workshop 2017
- Kivanc Kose, **Mengran Gou**, Oriol Yelamos, Miguel Cordova, Anthony Rossi, Kishwer Nehal, Octavia Camps, Jennifer Dy, Dana Brooks, and Milind Rajadhyaksha. ”Video-mosaicking of in vivo reflectance confocal microscopy images for noninvasive examination of skin lesion (Conference Presentation).” In Photonics in Dermatology and Plastic Surgery, vol. 37. 2017.
- Octavia Camps, **Mengran Gou**, Tom Hebble, Srikrishna Karanam, Oliver Lehmann, Yang Li, Richard J. Radke, Ziyang Wu, Fei Xiong. “From the Lab to the Real World: Re-Identification in an Airport Camera Network”, IEEE Transactions on Circuits and Systems for Video Technology, 2016
- **Mengran Gou**, Xikang Zhang, Angels Rates-Borras, Sadjad Asghari-Esfeden, Mario Sznaier, Octavia Camps. “Person Re-identification in Appearance Impaired Scenarios”, BMVC 2016
- Xikang Zhang, Yin Wang, **Mengran Gou**, Mario Sznaier, Octavia Camps. “Efficient Temporal Sequence Comparison and Classification using Gram Matrix Embeddings On a Riemannian Manifold”, CVPR 2016
- Kivanc Kose, **Mengran Gou**, Christi Alessi-Fox, Jennifer Dy, Octavia Camps, Dana Brooks, Milind Rajadhyaksha. “Analysis of in-vivo Reflectance Confocal Microscopy Images of Skin”, 2015 IEEE International Symposium on Biomedical Imaging
- Fei Xiong, **Mengran Gou**, Octavia Camps, Mario Sznaier. “Person Re-Identification using Kernel-based Metric Learning Methods”, ECCV 2014

* indicates equal contribution

Services

Reviewer TPAMI, SIVT, ICDS

Committee Northeastern ECE PhD Student Seminar Series