Liangzu Peng

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Education

ShanghaiTech Univerisity Shanghai, China — Sep. 2017 - Now

- M.S. in Computer Science (advised by Prof. Xuming He)
- Thesis: TBD

Zhejiang University Hangzhou, China — Sep. 2013 - Jun. 2017

- B.Eng. in Measurement Control Technology and Instruments
- Thesis: Image Measurement Software for Visual Detection

Publications

Null

Teaching

SI112, Advanced Geometry, TA[1] — Spring 2018

Projects

Correspondences via Deep Networks — Apr 2018 - Now

- Tags). Correspondences, Metric Learning, Image Matching, Caffe.
- Details). This is a recently-launched on-going project.

[1] See lecture notes at http://www.liangzu.org/en/ag-notes.html

Novel View Synthesis via Deep Networks Jul 2017 - Feb 2018

- Tags). GAN, Deep Learning, Python/Pytorch,
- Details). Appearance Flow Network[2], and large part of TVSN[3], were re-implemented, after which I tried some innovations but failed.

Image Measurement Software for Visual Detection Mar 2017 - May 2017

- Tags). OpenCV, Hough Transform, Edge Detection.
- Details). An image measurement software is developed in C++ on QT platform. The algorithm (sobel/canny, hough transform, template matching, etc.) tries to detect edges and their length in a set of industrial images, and a user-friendly and interactive UI is created for hacking parameters and presenting results.

DLNA-based Music & Image Classifier Feb 2016 - May 2017

- Tags). Android/Java, DLNA/UPnP Architecture, SVM.[4]
- Details). The pipeline contains two parts: 1). the classifier classifies the emotion contained in the input music (image resp.) and, 2) the corresponding image (music resp.) is played based on the detected emotion. The software is written in Java as an Android application, where DLNA technology is enabled by Cling library.

DICOM-based Virtual Printer Client Apr 2014 - Apr 2015

- Tags). C++, C#, DICOM Standard, Windows Programming.[5]
- Details). I developed a virtual printer client written in C++, which is a ready-to-serve Windows service program, and an simple user interface written in C# (windows form). Two programs (written in C++ and C# resp.) "communicate" via MySQL Database.

Skills

Languages: C, C++, Python, C#, Java, Matlab, Shell.
Tools: Pytorch, Caffe, LaTeX.

[2] https://arxiv.org/abs/1605.03557
[3] http://www.cs.unc.edu/~eunbyung/tvsn/
[4] funded by Rising Talent Program in Zhejiang Province, China (CNY 5000).
[5] funded by SRTP (Student Research Training Program) in Zhejiang University (CNY 800).