

教育

- 2012 至今 清华大学, 硕士, 计算机科学与技术, 导师: 张磊, 将于 2015 年毕业.
2008-2012 北京邮电大学, 本科, 计算机科学与技术.

实习经历

- 2014.04-09 微软亚洲研究院, 软件分析组, 数据挖掘实习生.
基于微软分布式计算平台 COSMOS, 参与开发了改进新型模式挖掘的时间序列异常检测系统, 已优化至成熟版本.
2012.04-08 华为诺亚方舟实验室, 数据挖掘实习生.
基于 Hadoop 平台, 对庞大的历史故障日志, 实现 Apriori 关联算法进行电信器件故障分析.
2011.09-12 北京人人公司, iOS 开发实习生.
参与每日推荐 iOS 客户端两个线上版本的开发, 保证了无明显 bug.

社区

- Blog imsheridan.com, 技术博客.
GitHub github.com/imsheridan, 参与和创建过多个开源项目.

项目经历

- 2014-至今 **Emerging Pattern Mining, CSharp, COSMOS.**
Emerging Pattern Mining 是一个研究成果转化为内部分析工具的项目, 旨在找出多维时间序列数据中出现显著变化的真正原因.
我作为微软亚洲研究院软件分析组的全职实习生, 负责设计和实现一款基于微软分布式平台 COSMOS 的分布式异常检测系统, 主要分为三个模块: 基于庞大日志信息, 使用 FP-Close 关联挖掘算法进行频繁集挖掘; 对于时间序列的线性数据以及周期性数据, 区别对待进行异常点检测; 使用最大信息熵算法对结果进行去除冗余以及重要性排序.
2013-2014 **DeLogo, Matlab, Research Project.**
Working with Liheng Bian, Prof. Lei Zhang, Prof. Jinli Suo and Prof. Qionghai Dai.
DeLogo is a video logo removal system that can automatically and perfectly remove and repair the logo area. Mathematically, we treat inpainting as a global optimization with a linear system incorporating both the temporal video consistency and the priors of the inpainting regions. Further, we propose a numerical solution to above optimization based on Augmented Lagrangian Method.
I was the major contributor of this project and the paper has been accepted in ICIP '14.

- 2014 **Fast Ghost Imaging**, *C++, Matlab*, Research Project.
Working with Liheng Bian, Prof. Lei Zhang, Prof. Jinli Suo and Prof. Qionghai Dai.
Computational ghost imaging needs to acquire a large number of correlated measurements between reference patterns and the scene for reconstruction.
This project proposes a self-synchronization scheme that can eliminate this difficulty by introducing a high precision synchronization technique and corresponding algorithm. We physically implement the proposed scheme using a 20kHz spatial light modulator to generate random binary patterns together with a 100 times faster photodiode for high speed ghost imaging, and the acquisition frequency is around 14 times faster than that of state-of-the-arts.
I was the major contributor of this project and the paper has been submitted to Optics Letter (OL, IF 3.385).

发表论文

- 2014 **Yudong Xiao**, Jinli Suo, Liheng Bian, Lei Zhang, and Qionghai Dai, "*Automatic Inpainting of Linearly Related Video Frames*", IEEE International Conference on Image Processing, 2014.
- 2014 Jinli Suo, **Yudong Xiao**, Liheng Bian, Lei Zhang, and Qionghai Dai, "*Self synchronizing scheme for high speed ghost imaging*", submitted to Optics Letter (OL, IF 3.385).
- 2013 Yuqing Lu, Lei Zhang, **Yudong Xiao**, and Yangguang Li, "*Simultaneously detecting fake reviews and review spammers using factor graph model*", ACM Web Science 2013.

Skills

- Languages **C/C++ = Matlab = Objective-C > JAVA = Python.**
- Major **Data Mining, Computer Vision**, Solid basic knowledge in data mining, machine learning and computer vision related.
- English **CET-6 551**, skilled at reading & translation of domain materials..