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## 徐枫 教授

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个人简介

清华大学电子工程系博士，北京石油化工学院教授，主要研究领域为：数字图像处理，计算机视觉，和模式识别。在国内外知名高校，研究机构和500强企业有多年的工作经历，完成过多项国际前沿水平的项目。在国际期刊和学术会议上发表学术论文，全部被SCI/EI收录。申请并获得授权的美国专利6项。



个人简历

2002.09 – 2007.06 清华大学电子工程系，博士

2007.08 – 2008.05 美国宾夕法尼亚大学，博士后

2008.06 – 2010.09 Technicolor北京研究院，研发工程师

2010.10 – 2012.12 美国加州大学洛杉矶校区，研究员

2013.01 – 2017.09 三星美国研究中心，高级研究员

2017.10 – 2019.09 美国深海数据有限公司，联合创始人

2019.11 – 2020.06 北京易联视讯科技有限公司，高级算法工程师

2020.07 – 至今 北京石油化工学院人工智能研究院，教授

主讲课程

《数字图像处理》 研究生课程

《计算机视觉》 研究生课程

研究方向

图像和视频中的目标检测、识别和分类

基于内容的图像和视频检索

图像和视频质量评估和后处理算法

机器学习和深度学习

医学图像处理和分析

发表论文

**Feng Xu**, Lei Zhang, Yu-Jin Zhang, Wei-Ying Ma. "Salient Feature Selection for Visual Concept Learning", PCM, 617-628, 2005.

**Feng Xu**, Yu-Jin Zhang. "Atmosphere-Based Image Classification Through Illumination and Hue", Visual Communications and Image Processing, SPIE-5960: 596-603, 2005.

**Feng Xu**, Yu-Jin Zhang. "Evaluation and Comparison of Texture Descriptors Proposed in MPEG-7", *Journal of Visual Communication and Image Representation*, 17 (2006): 701-716.

**Feng Xu**, Yu-Jin Zhang. "Feature Selection for Image Categorization", in: Proceedings of Asian Conference on Computer Vision (Lecture Notes in Computer Science 3852), 653-662, 2006.

**Feng Xu**, Yu-Jin Zhang. "Integrated Patch Model: A Generative Model for Image Categorization Based on Feature Selection", *Pattern Recognition Letters*, Volume 28, Issue 12, 2007, 1581-1591.

Christos Davatzikos, **Feng Xu**, Susan M. Resnick. Longitudinal Progression Of Ad-like Patterns Of Brain Atrophy Elderly Cohort And In MCI: A High-dimensional Pattern Classification Study. International Conference on Alzheimer's Disease, 2008.

Christos Davatzikos, Arijitt Borthakur, **Feng Xu**, Xiaoying Wu, Evi Parmpi, Matthew Sochor, Christopher M. Clark. Integration of MRI measures of atrophy and protein aggregation with CSF biomarkers of AD pathology in individuals with mild cognitive impairment. International Conference on Alzheimer's disease, 2008.

Christos Davatzikos, **Feng Xu**, Yang An, Yong Fan, Susan Resnick. "Longitudinal progression of Alzheimer's-like patterns of atrophy in normal older adults: the SPARE-AD index". *Brain*, 2026-2035, Vol. 132, No. 8, 2009.

Jianwen Chen, **Feng Xu**, Yan Xu, Yaocheng Rong, Yuxing Han, John Villasenor, Yun He, Cliff Reader, Jiangtao Wen, "Efficient Video Coding Using Legacy Algorithmic Approaches", *IEEE Transactions on Multimedia*, 111-120, Volume 14, Issue 1, Feb. 2012.

Jianwen Chen, **Feng Xu**, Hao Zhu, Yijun Mo, "An Adaptive Visual Quality Optimization Method for Internet Video Applications", Visual Communications and Image Processing, 2012.

Jianwen Chen, Jianhua Zheng, **Feng Xu**, John Villasenor, "Adaptive frequency weighting for high performance video coding", *IEEE Transactions on Circuits and Systems for Video Technology*, 1027-1036, Volume 22, Issue 7, July 2012.

Tao Fan, Haiwu Zhao, Guozhong Wang, Jianwen Chen, **Feng Xu**, John Villasenor, "An adaptive covariance-based edge diffusion image enlargement method", Visual Communications and Image Processing, 2012.



#### 专利

**Xiaodong Gu, Debing Liu, Feng Xu, Zhibo Chen**. Method for measuring video quality using a reference, and apparatus for measuring video quality using a reference. 专利号: US 8723960

Debing Liu, Zhibo Chen, Xiaodong Gu, Feng Xu. Method of processing an image and corresponding device. 专利号: US 8724899

Debing Liu, Zhibo Chen, Xiaodong Gu, Feng Xu. Method and device for calculating blur in video images. 专利号: US 8823873

Feng Xu, Zhibo Chen, Debing Liu, Xiaodong Gu. Method and apparatus for measuring video quality using at least one semi-supervised learning regressor for mean observer score prediction. 专利号: US 8824783

Debing Liu, Zhibo Chen, Xiaodong Gu, Feng Xu. Method of processing an image based on the determination of blockiness level. 专利号: US 9076220

Debing Liu, Zhibo Chen, Xiaodong Gu, Feng Xu. Blur measurement in a block-based compressed image. 专利号: US 9497468

#### 主要著作:

学术专著章节

**Feng Xu**, Yu-Jin Zhang. "A Novel Framework for Image Categorization and Automatic Annotation", Semantic-Based Visual Information Retrieval (Chapter V), edited by Dr. Yu-Jin Zhang, IRM Press, 2007.

**Feng Xu**, Yu-Jin Zhang. "Probability Association Approach in Automatic Image Annotation", Handbook of Research on Public Information Technology (Chapter 56), edited by G. David Garson, 2008.



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