张华

l 教育与学历

2017.02-2018.02	访问学者	意大利特伦托大学
2009.03-2010.09	访问学者	香港理工大学
2001.09-2004.06	地图制图学与地理信息工程硕士	中国矿业大学
1979.09-2001.06	测绘工程	中国矿业大学

l 工作经历

Ø 2014.1-至今　中国矿业大学环境与测绘学院副教授

Ø 2004.7-2013.12　中国矿业大学环境与测绘学院助教、讲师

l 研究方向

遥感数据处理，GIS理论与应用。

l 期刊论文（SCI）

2017

Hua Zhang,Qunming Wang, Wenzhong Shi, and Ming Hao (2017). A Novel Adaptive Fuzzy LocalInformation C-Means Clustering Algorithm for Remotely Sensed ImageryClassification. *IEEE Transactions onGeoscience and Remote Sensing*, vol. 55, no. 8, pp., Aug, In Press. (SCI)

MingHao, **Zhang Hua***, Zhenxuan Li,and Bingqian Chen (2017). Unsupervised change detection using a novel fuzzy c-meansclustering simultaneously incorporating local and global information. *Multimedia Tools and Applications*,vol., no. , pp., In Press. (SCI)

Zhenxuan Li, WenzhongShi, **Hua Zhang**, and Ming Hao(2017). Change Detection Based on Gabor Wavelet Features for Very HighResolution Remote Sensing Images. *IEEEGeoscience and Remote Sensing Letters*, 2017, 14(5), 783-787.(SCI)

2016

LipingCai, Wenzhong Shi, **Hua Zhang** andMing Hao (2016) . Object-oriented change detection method based on adaptivemulti-method combination for remote-sensing images, *International*

Journal of Remote Sensing, vol. 37, no. 22, pp.5457-5471. (SCI)

MingHao, Wenzhong Shi, **Hua Zhang**,Qunming Wang, Kazhong Deng (2016). A Scale-Driven Change DetectionMethod Incorporating Uncertainty Analysis for Remote Sensing Images,*remote sensing*, vol. 8, no. 9. (SCI)

Ming Hao, Wenzhong Shi, Kazhong Deng, **Hua Zhang** and Pengfei He. AnObject-Based Change Detection Approach Using Uncertainty Analysis for VHRImages, *Journal of Sensors,*2016.(SCI)

2015

Pengfei He, Wenzhong Shi, Zelang Miao, **Hua Zhang** and Liping Cai.(2015). AdvancedMarkov random field model based on local uncertainty for unsupervised changedetection, *Remote SensingLetters*, vol.6, no.9, pp: 667-676. (SCI)

Liping Cai, Wenzhong Shi, Pengfei He, ZelangMiao, Ming Hao and **Hua Zhang**.(2015). Fusion ofmultiple features to produce a segmentation algorithm for remote sensing images,*Remote Sensing Letters*, vol.6, no.5,pp:390-398. (SCI)

Ming Hao, Wenzhong Shi, Kazhong Deng, and **Hua Zhang**(2015), Fusion-basedapproach to change detection to reduce the effect of the trade-off parameter inthe active contour model, *RemoteSensing Letters*, vol.6, no.1, pp: 39-48. (SCI)

2014

Hua Zhang,Wenzhong Shi, Yunjia Wang, Ming Hao, and Zelang Miao (2014), Spatial-Attraction-BasedMarkov Random Field Approach for Classification of High Spatial Resolution MultispectralImagery, *IEEE Geoscience andRemote Sensing Letters*, vol.11, no.2, pp:489-493.(SCI)

Hua Zhang,Wenzhong Shi, Yunjia Wang, Ming Hao, and Zelang Miao (2014), Classification ofVery High Spatial Resolution Imagery Based on a New Pixel Shape Feature Set, *IEEE Geoscience and Remote Sensing Letters*, vol.11,no.5, pp:940-944. (SCI)

NanshanZheng, **Hua Zhang***, JingjingFan and Hongjie Guan (2014), A fuzzy local neighbourhood-attractionbasedinformation c-means clustering algorithm for very high spatial resolutionimagery classification, *Remote SensingLetters*, vol.5, no.9, pp: 843–852, (SCI)

MingHao, Wenzhong Shi, **Hua Zhang**and Chang Li (2014), Unsupervisedchange detection with Expectation-Maximization-based level set, *IEEE Geoscience and Remote Sensing Letters*, vol.11,no.1, pp: 210-214. (SCI)

Yongbo Wang, Yunjia Wang, Kan Wu, Hua chaoYang, **Hua Zhang** (2014), A dualquaternion-based, closed-form pairwise registration algorithm for point clouds, *ISPRS Journal of Photogrammetry and RemoteSensing*, vol.94, pp: 63–69. (SCI)

Quming. Wang, Wenzhong. Shi and **Hua. Zhang** (2014), Classallocation for soft-then-hard subpixel mapping algorithms with adaptivevisiting order of classes. *IEEEGeoscience and Remote Sensing Letters,* vol.11, no.9, pp: 1494–1498. (SCI)

MingHao, Wenzhong Shi, Kazhong Deng, and **HuaZhang**(2014), Acontrast-sensitive Potts model custom-designed for change detection,*European Journal of Remote Sensing*,vol.47, no.1, pp: 643-654.

(SCI)

Pengfei He, Wenzhong Shi, **Hua Zhang** and Miang Hao. (2014).A noveldynamic threshold method for unsupervised change detection from remotely sensedimages, *Remote Sensing Letters*,vol.5, no.4, pp: 396-403. (SCI)

ZelangMiao, Wenzhong Shi, **Hua Zhang**(2014), ASemi-Automatic Method for Road Centerline Extraction From VHR Images,*IEEE Geoscience and Remote Sensing Letters*, vol.11,no.11, pp: 1856-1860. (SCI)

WenzhongShi, Zelang Miao, Qunming Wang and **HuaZhang** (2014), Spectral–Spatial Classification and Shape Features forUrban Road Centerline Extraction, *IEEE Geoscience andRemote Sensing Letters*, vol.11, no.4, pp: 788-792. (SCI)

2013

ZelangMiao, Wenzhong Shi, **Hua Zhang**and Xinxin Wang (2013), Road Centerline Extraction From High-Resolution ImageryBased on Shape Features and Multivariate Adaptive Regression Splines, *IEEE Geoscience and Remote Sensing Letters*, vol.10,no.3, pp: 583-587. (SCI)

Ming Hao, Wenzhong Shi, and **Hua Zhang**(2013), Unsupervisedchange detection using fuzzy c-means and MRF from remotely sensed images.*Remote Sensing Letters*, vol.4, no.12,pp: 1185-1194. (SCI)

2012

HuaZhang, Wenzhong Shi, and Kim Liu (2012). Fuzzy-topology-integratedSupport Vector Machine for remotely sensed image classification. *IEEE Transactions on Geoscience and RemoteSensing*, vol.50, no.3, pp: 850-862. (SCI)

2011

KimfungLiu, Wenzhong Shi and **Hua Zhang** (2011),A fuzzy topology-based maximum likelihood classification, *ISPRS Journal of Photogrammetry and Remote Sensing*, vol.66, pp: 103–114(SCI)

KimfungLiu, Wenzhong Shi and **Hua Zhang** (2011),A study of supervised classification accuracy in fuzzy topological methods, *International Journal of Applied EarthObservation and Geoinformation* , vol.13, no.1, pp. 89–99 (SCI)

l **主持项目（2010-2017）**

1. 基于模糊拓扑及多特征融合的遥感影像亚像元定位，国家自然基金青年基金，41201451，25万元，2013.01-2015.12。

2. 可靠性遥感影像分类与空间关联分析研究，国家自然基金重点项目子课题，41331175，35万元，2014.01-2018.12。

3. 数字周边构建与地缘环境分析关键技术研究，十二五科技支撑，2012BAK12B03-1，14万元；2012.1-2014.12。

4. 融合空间邻域信息的可靠性遥感影像变化检测, 学科前沿方向研究专项, 2015XKQY09, 20万元，2015.07-2018.07。

l 指导的已经毕业的研究生

l 2016

l 在读研究生

l 2016

孙悦，硕士研究生

邵志凯，硕士研究生

l 2015

杨国庆，硕士研究生

l 获奖

2016测绘科技进步奖（I, R8）

2014江苏省优秀博士论文奖

2013江苏省科技进步奖(II, R7)

2012江苏省科技进步奖(III, R3)

2012测绘科技进步奖（II, R3）