

CURRICULUM VITAE - SUMMARY

Mr. Fang MIAO

January 19, 2010

Miao Fang: male, born on April, 1958, from Beijing, Ph.D., professor, the director of Big Data Research Institute, Chengdu University; the director of Spatial Information Technology Institute, Chengdu University of Technology. The major research direction is Big Data area, spatial information technology and its application. Awarded several provincial and ministerial level prizes; published more than 100 papers and translations, 10 of which are indexed by SCI, EI or ISTP.

Awarded the title of Sichuan Ph.D. outstanding contribution in 1991; Took the second place of researching category of Fund of Fok Ying-Tung Education Foundation in 1992; Enjoyed State Department special allowance in 1998; Be chosen as the hundred academic and managerial leader of China's Information in 2006; Awarded the Scientific Chinese title in 2017.

Education background

- Sept. 1970 - July 1976, studied in the middle and high school of a phosphate fertilizer factory in Dongxiang County, Jiangxi Province.
- March 1978 - Jan. 1982, studied in Chengdu College of Geology majoring geophysical prospecting, awarded Bachelor degree
- Sept. 1982 - Oct. 1985, studied in Chengdu College of Geology majoring geophysical prospecting, awarded Master degree; Tutor: Professor Jia Wenyi
- Sept. 1987 - Jul. 1990, studied in Chengdu College of Geology majoring geophysical prospecting, awarded Ph.D. degree; Tutor: Professor Jia Wenyi

During study, majored in advanced mathematics, foreign language, signal analysis and processing, equation of mathematical physics, elastic waves dynamics, seismic prospecting methods, electro-magnetic, introduction to geo-science, seismology, geomagnetism and earth current, tectonics, geophysical data processing and simulation, geophysical inversion and tomography, computer technology, and etc.

Working experiences

- Feb. 1982 - Aug. 1982, worked in the 402 brigade of Bureau of Mines and Geology in Hunan Province
- Nov. 1985 - Aug. 1987, taught in Department No.3 of Chengdu College of Geology
- Since Jul. 1990, taught in Chengdu College of Geology (currently Chengdu University of Technology);
- Jun. 1995 - March 1997, taught in Department of Computer Engineering in Chengdu University of Technology, and be chosen as chief engineer
- March 1997 - Jul. 1998, the deputy director of network information center of Chengdu University of Technology
- Aug. 1998 - Jan. 2002, the deputy director of modernteaching center of Chengdu University of Technology

- May 2002 - Dec. 2003, the deputy director of Chengdu Software Industry Development Center
- Jun. 2006 - Oct. 2010, the dean of College of Information Engineering of Chengdu University of Technology
- Jun. 2011 – Now, the director of University Key Laboratory of Pattern Recognition & Intelligence Information Processing of Sichuan Province, Chengdu University
- Jun. 2013 – Oct. 2015, the dean of College of Computer of Chengdu University.
- Oct. 2015 – Now, the director of Big Data Research Institute of Chengdu University.

Overseas records

- Feb. 1994 - May 1995, as a visiting scholar in Bullard Lab. of Department of Earth Science, Cambridge University, UK
- Oct. 1997 - Dec. 1997, studied remote sensing and GIS in GDTA of Toulouse and BRGM of Orleans, France
- Nov. 1999 - Dec. 1999, collaborative researched in BRGM of Marseille, France
- Jan. 2002 - March 2002, collaborative researched in Department of Earth Science, Imperial College London, UK
- Aug. 23 - 25, 2011, Attended The 7th International Symposium on Digital Earth in Perth, Australia
- Nov. 2012 - Dec. 2012, visiting scholar in New Hampshire University, US
- Dec. 18 - 22, 2013, Attended SKIMA 2013 Conference in Chiang Mai, Thailand, and visited Chiang Mai University.
- July 2018 – Sept. 2018, visiting professor in ICDI of Chiang Mai University, Thailand.

Part of recently published papers

- [1] Miao, Fang. Discussion of Data-Oriented Software Architecture[J]. Journal of Frontiers of Computer Science and Technology, 2016,1673-9418,10:1351-1364
- [2] Miao, Fang. The Preliminary Study of Data Oriented Security Architecture (DOSA)[J]. ZTE Technology Journal. 2016 (1) :19-22.
- [3] YANG Wenhui, LI Guoqiang, MIAO Fang. Metadata management mechanism of massive spatial data storage[J]. Journal of Computer Applications, 2015, 1001-9081, 05:1276-1279.
- [4] DENG Xianming, MIAO Fang, ZHAI Yongguang, MENG Qingkai. Two modified target detection algorithms based on morphology for hyperspectral imagery[J]. ACTA Scientiarum Naturalium Universitatis Sunyatseni, 2017, 0529-6579, 01:151-160.
- [5] MENG Qing-kai, WANG Bao-cun, MIAO Fang. Research on Monitoring the Ground Subsidence in Mountainous City by SBAS-INSAR—a Case Study in Panzhuhua City[J]. Science Technology and Engineering, 2016, 1671-1815, 13-0012-06.
- [6] YAO Dan-dan, MIAO Fang, CHEN Jun, LU Han-yu. Research on visualization of dynamic 3D symbol rendering by OpenGL embedded in ArcGIS Globe[J]. Journal of Guangxi University (Nat Sci Ed), 2016, 1001-7445, 03:816-821.
- [7] LUO Hui-fen, MIAO Fang, YE Chen-ming, ZHAO Guo-xiang. Vegetation Coverage Change of Maoxian County Before and After Wenchuan Earthquake[J]. Bulletin of Soil and Water Conservation. 2013, 1000-288X, 33(3):202-205.

- [8] YE Cheng-ming, HAN Ling, MIAO Fang. Monitoring and analysis of vegetation using remote sensing in 5.12 Wenchuan earthquake region[J]. Progress in Geophysics, 2012, 1004-2903, 27(5): 1922-1928.
- [9] LUO Hui-fen, MIAO Fang, YANG Wen-hui. Study of land use classification using SAM from ASTER data[J]. Science of Surveying and Mapping. 2012, 1009-2307, 06:43-45.
- [10] CHENG Fu-chao, MIAO Fang, YANG Wen-hui, CHEN Ken. Design and implementation of geometrical feature analyzer for lunar crater[J]. Computer Engineering and Design, 2014, 1000-7024, 10:3484-3488.
- [11] LENG Xiao-peng, MIAO Fang, YANG Wen-hui, LU Han-yu. Research of 3D GIS monitoring system based on G/S model. Journal of Guangxi University: Nat Sci Ed. , 2012, 1001-7445, 02:317-322.
- [12] HUANG Lei, MIAO Fang, WANG Meng-xue. Designing and Setting up a Monitoring and Early Warning System for Tailings Ponds in a Region[J]. China Safety Science Journal, 2013, 1003-3033, 12:146-152.
- [13] WEN WU, MIAO Fang. Complex Field of Nonlinear Diffusion Methods in Image Processing[J]. Microelectronics & Computer, 2012,1000-7180, 06:57-60.
- [14] WEN Wu, MIAO Fang. Multi-Scale Edge Detection for Remote Sensing Image Processing Bases on the Wavelet Transform[J]. Microelectronics & Computer. 2013, 1000-7180, 02:18-20.
- [15] Qingkai Meng, Fang Miao, Jing Zhen, Xinyuan Wang, An Wang, Ying Peng, Qiang Fan. GIS-based landslide susceptibility mapping with logistic regression, analytical hierarchy process, and combined fuzzy and support vector machine methods: a case study from Wolong Giant Panda Natural Reserve, China[J]. Bulletin of Engineering Geology and the Environment, 2016, 1435-9529, 75(3):923-944. DOI:10.1007/s10064-015-0786-x
- [16] MENG Qing-kai, MIAO Fang, ZHEN Jing, HUANG Yan, WANG Xin-yuan, PENG Ying. Impact of earthquake-induced landslide on the habitat suitability of giant panda in Wolong, China[J]. Journal of Mountain Science. 2016, 1789-1805, 13(10):1789-1805. DOI: 10.1007/s11629-015-3734-0
- [17] DU Gen-yuan, MIAO Fang, XIONG De-lan. Service Model of Spatial Data Storage Scheduling Based on Subdivision Theory[J]. Computer Science, 2012,1002-137X,08:263-267
- [18] MIAO Fang, ZHOU Xiangbing. The Preliminary Study of Data Oriented Architecture[M]. Science Press, 2017, ISBN: 978-7-03-052167-5.
- [19] Miao, F., Yang, W., Li, Y. et al. 2014. A data-oriented information technology system. CN Patent 201410341092.X, PCT/CN2015/080013.
- [20] Miao, F., Yang, W., Ye A. et al. 2015. A data-oriented security architecture method and system. CN Patent application 201511025657.4, Public No. CN105450669A
- [21] Miao, F. et al. 2018. The Study of Ownership-based Data Security Application. In Proceedings of the 7th International Conference on Advanced Technologies (ICAT'18), 420-426. E-ISBN: 978-605-68537-1-5. Antalya, Turkey.
- [22] Miao, F. et al. 2018. Digital Copyright Works Management System Based on DOSA. In Proceeding CSAE '18, Proceedings of the 2nd International Conference on Computer Science and Application Engineering, Article No. 179, Hohhot, China. Association for Computing Machinery. ACM ISBN 978-1-4503-6512-3/18/10 DOI=https://doi.org/10.1145/3207677.3278047

Presided and studied scientific research projects mainly include:

- (1) Scientific Research Fund of State's Key Project of Research and Development Plan of China "The basic theoretic research of the protection of digital virtual assets (2016YFB0800600)", 2016-2019;
- (2) National Natural Science Funds Project "Research of Spatial Information Network Service Module of Client-Side Service Polymerization (61071121)", 2010-2012;
- (3) National Natural Science Funds Project "The Research of Automatic Monitoring and Prediction System of Radon in Geology Disaster Soil and acoustic emission (48900023)", 1990-1993;
- (4) National 863 Project "Time and Space Monitoring and Recognition Technology of Coal Mining Subsidence Area Based on 3S Technology (2005AA644030-8)", 2005-2008;
- (5) Sichuan Provincial Department of Education Natural Science Project key project "Research of The Application of Digital Earth Platform in Geology (2006A117)", 2006-2008.