


## Brief CV

Name	Yao Yanxin	Gender	Female	
Title (Pro./Dr.)	Associate Professor	Country	China	
University/Department	Department of Electronic and Information Engineering, Beijing Information Science and Technology University			
Personal Web Sites				
Research Area	Wireless communications and energy saving wireless communication network & Advanced signal processing technology for satellite navigation			

### Brief introduction of your research experience:

Yao Yanxin is mainly engaged in the research of green communication network, wireless sensor networks and wireless signal and information processing and has rich experience in wireless sensor system, hardware and software system development for GPS/indoor positioning and green communication routing algorithm. In recent 5 years, Yao Yanxin has hosted a project of National Natural Science Foundation of China Youth Foud, a project of China Postdoctoral Science Foundation, a project of Excellent talents of Beijing Organization Department and 3 other vertical projects and participated in more than 10 projects including “973”, “863”, National Natural Science Foundation, the General Equipment Department subject and horizontal projects. She has published more than 10 academic papers, authorized 5 national invention patents and applied for 4 national invention patents.

### Research experience:

1. 2014, “Research on key technologies of digital GNSS based on compressed sensing”, National Natural Science Foundation of China.
2. 2008, “Indoor radio signal carrier phase positioning system”. Main responsibilities include developing pseudo satellite and carrier precision positioning system.
3. 2009, “Airborne GPS remote sensing system”. Responsibilities include completing the reflection signal acquisition, tracking and wind field inversion.
4. 2009, “Common processing platform for GNSS reflected signal”. As the technical director of the reflected signal altimeter sub-project, developing the software platform of reflected signal altimetry.
5. “High precision real-time estimation theory and method for platform motion error”.
6. “Navigation, guidance and sensing technology”.

7. "Autonomous Control and navigation of small unmanned aerial vehicle".
8. "Theoretical study of GNSS integer ambiguity decorrelation algorithm and the evaluation method".

Published papers:

1. Yao Yanxin. Multiple category estimation for GPS narrow-band interference based on compressed sensing[J]. Telecommunication Engineering, 2016, 56(1): 1-6.
2. Yao Yanxin. High-resolution compressed power spectrum estimation method of low sampling rate[J]. Chinese Journal of Radio Science, 2016, 02.
3. Yao Yanxin, Liu Qiushi. Energy-Balanced Routing Method for Wireless Cooperative Wireless Network[C]. Advanced Materials Research. 2013, 774: 1659-1663.
4. Yao Yanxin. Improved Scheduling and Routing Algorithm for Energy Harvesting[C]. 2nd International Conference on Sensors, Instrument and Information Technology, 112-118, 2015.6.27-2015.6.28.
5. Yao Yanxin. Solar energy prediction method based on optimized regression analysis for energy harvesting network[J]. Energy Engineering, 2016(1): 9-14.
6. Yao Yanxin, Ding Fan. Global Navigation Satellite System ambiguity decorrelation through diagonal elements precomputing and ordering method[J]. Iet Radar Sonar Navigation, 2013, 7(7): 19-25.
7. Yao Yanxin, Zhao Yun, Liu Liang. An improved GNSS integer ambiguity decorrelation algorithm[J]. Journal of Astronautics, 2013, 34(11): 1490-1495.
8. Yao Yanxin, Zhang Qishan, Yang Dongkai. A novel method for estimating reflected signal parameters[J]. IEICE transactions on communications, 2009, 92(3): 1062-1065.
9. Yao Yanxin, Yang Dongkai, Zhang Qishan. GPS Multipath Signal Estimation Method Utilizing Adaptive Filtering[J]. Acta Aeronautica ET Astronautica Sinica, 2010, 31(10):2004-2009.
10. Yao Yanxin, Yang Dongkai, Ding Fan, et al. Precise Tracking Loop of GPS Code[J]. Geomatics and Information Science of Wuhan University, 2010, 35(11): 1355-1359.
11. Yao Yanxin, Yang Dongkai, Zhang Qishan. Lake height variation measurement utilizing GNSS reflected signal carrier phase[J]. Journal of Beijing University of Aeronautics and Astronautics, 2009, 35(9): 1072-1075.
12. Yao Yanxin, Yang Dongkai, Zhang Qishan. A new multipath estimation method for GPS signals[C]. International Conference on Electronic Measurement & Instruments. 2009: 3-84 - 3-87.
13. Yao Yanxin, Yang Dongkai, Ding Fan. A multipath-resistant precise tracking method for BOC signals[C]. Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications, 2009 3rd IEEE International Symposium on. IEEE, 2009: 354 - 358.

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