

Xiyu XU

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Prof. Xiyu Xu got the B.S. Degree in Applied Physics, Jilin University, China from 2000 and M.E. Degree in Aircraft Design, Chinese Academy of Science, China from 2004. In 2008, he also got the Ph.D. Degree in Computer Science, Chinese Academy of Science, China. Now, he is the professor and works in the Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences (CAS) since 2017.

Prof. Xu is the member of IEEE & GRSS. His research interests are Microwave Remote Sensing and Satellite Altimetry including signal processing, data processing, error analysis and calibration / validation of satellite radar altimetry, and other microwave remote sensors; new concept in microwave remote sensing and deep space exploration; standardization of microwave remote sensing technology. He has published more than 40 papers in international journals and conferences and he is the Co-translator of the book “Introduction to Microwave Remote Sensing” (Chinese Version).

Title of Invited Speech

Coastal Altimetry Waveform Classification and Retracking: Benefiting from Advanced Information

Processing Methodology

Education:

B.S. Degree in Applied Physics - Jilin University, Changchun, China, 2000

M.E. Degree in Aircraft Design from Chinese Academy of Sciences, Beijing, China, 2004

Ph.D. Degree in Computer Science from Chinese Academy of Sciences, Beijing, China, 2008

Professional experience:

Assistant Professor: The Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences (CAS), 2008-2013;

Associate Professor: The Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences (CAS), 2013-2016;

Visiting Scholar: The Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences (CAS), 2016-2017;

Project Professor: The Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences (CAS), 2017-present.

Research interest: Microwave Remote Sensing and Satellite Altimetry

① Signal processing, data processing, error analysis and calibration / validation of satellite radar altimetry, and other microwave remote sensors.

② New concept in microwave remote sensing and deep space exploration.

③ Standardization of microwave remote sensing technology.

Publications:

40+ articles in international journals and conferences (listed below); Co-translator of the book “Introduction to Microwave Remote Sensing” (Chinese Version).

International and national responsibilities:

Member of IEEE & GRSS.

Co-chair of the Session: “Microwave Remote Sensing and Sensors, Microwave and Millimeter Wave Systems, Submillimeter Wave Techniques, Low-Noise Devices and Techniques” in IEEE International Conference on Microwave and Millimeter Wave Technology (ICMMT), 2010

Co-chair of the Session: “Satellite Altimetry, II” in IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2013

Expert in Remote Sensing of the China National standardizing committee.

Reviewer of papers for several academic journals.

M. E. thesis supervision:

Pei YE (2014)

Yihua ZHAN (2021)

B. E. thesis supervision:

Yueheng DU (2011)

Jincheng ZHENG (2021)

Representative Publications

- [1] Xu Xi-Yu, XuKe, Wang Zhen-Zhan, Wang Lei. Compensating the PTR and LPF Features of the HY-2 Satellite Altimeter Utilizing Look-Up Tables. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 8(1), 2015:149-159 (SCI)
- [2] Xu Xi-Yu, Xu Ke, Shen Hua, Liu Ya-Long, Liu He-Guang. Sea Surface Height and Significant Wave Height Calibration Methodology by a GNSS Buoy Campaign for HY-2A Altimeter. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 9(11), 2016: 5252-5261 (SCI)
- [3] Xi-Yu Xu, Florence Birol, Anny Cazenave. Evaluation of Coastal Sea Level Offshore Hong Kong from Jason-2 Altimetry. *Remote Sensing*. 2018, 10(2), 282
- [4] 徐曦煜, 王振占, 许可. 激光站在星载雷达高度计绝对定标中的应用 [J]. 武汉大学学报信息科学版. 42 (1), 2017: 103-108
- [5] 徐曦煜, 王振占, 叶沛, 许可. GPS 浮标数据反演海浪谱的理论仿真与试验验证. 海洋学报. 36 (7), 2014: 34-44
- [6] 徐曦煜, 刘和光, 杨双宝. 基于分层模型的火星次表层 HF 频段雷达高度计回波仿真研究. 空间科学学报, 35 (6), 2015: 746-754