Ζέκυι Jia

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EDUCATION

Tsinghua University , Beijing, China <i>PhD</i> in Electronic Engineering <i>Advisor:</i> Prof. Maokun Li	2018 - 2023
Xidian University , Shaanxi, China <i>B.S.</i> in Physics and Optoelectronic Engineering	2014 - 2018
Working Experience	
Purdue University , West Lafayette, Indiana, United States Post Doctoral Research Associate	2023 – Present
Schlumberger, Houston, Texas, United States Internship	Jun. 2020 – Sep. 2020

HONORS AND AWARDS

 Computational Electromagnetics, Tsinghua University 	Fall	2020
TEACHING EXPERIENCE		
The Third Prize Scholarship, Xidian University		2015
Special Scholarship, Xidian University		2015
National Scholarship, Xidian University		2016
Outstanding Graduates, Xidian University		2018
Honorable Mention Papers, IEEE AP-S/URSI 2022 Student Paper Competition		2022
The Comprehensive Scholarship, Tsinghua University		2022

• Theory and Methods in Electromagnetic Inverse Problems, Tsinghua University Spring 2022

PUBLICATIONS

- Jia, Zekui, Maokun Li, Fan Yang, and Shenheng Xu. "Estimation of the Born data in inverse scattering of layered media." Inverse Problems (2024).
- Jia, Zekui, and Maokun Li. "Direct Imaging of Layered Media with SISO Data Using Reduced Order Models." In 2023 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (USNC-URSI), pp. 461-462. IEEE, 2023.
- Shao, Tianchen, Zekui Jia, Maokun Li, Fan Yang, and Shenheng Xu. "Inversion of 2D Permittivity Distribution with Iterative Data to Born Method." In 2023 International Applied Computational Electromagnetics Society Symposium (ACES-China), pp. 1-2. IEEE, 2023.
- Jia, Zekui, Maokun Li, Fan Yang, and Shenheng Xu. "Linearization of 2d inverse scattering problems based on reduced order models." In 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), pp. 1714-1715. IEEE, 2022.
- Jia, Zekui, Rui Guo, Maokun Li, Guojun Wang, Zhiqu Liu, and Yun Shao. "3-D model-based inversion using supervised descent method for aspect-limited microwave data of metallic targets." IEEE Transactions on Geoscience and Remote Sensing 60 (2021): 1-10.

- Jia, Zekui, Rui Guo, Maokun Li, Fan Yang, and Shenheng Xu. "Enhanced born approximation for wave equations." In 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), pp. 1817-1818. IEEE, 2021.
- Jia, Zekui, Rui Guo, Maokun Li, Fan Yang, Shenheng Xu, Guojun Wang, and Zhiqu Liu. "3D Modelbased Inversion with Limited Microwave Data Using Supervised Descent Method." In 2020 International Conference on Microwave and Millimeter Wave Technology (ICMMT), pp. 1-3. IEEE, 2020.
- Guo, Rui, Zekui Jia, Xiaoqian Song, Maokun Li, Fan Yang, Shenheng Xu, and Aria Abubakar. "Pixel-and model-based microwave inversion with supervised descent method for dielectric targets." IEEE Transactions on Antennas and Propagation 68, no. 12 (2020): 8114-8126.
- Guo, Rui, Zekui Jia, Xiaoqian Song, Maokun Li, Fan Yang, Shenheng Xu, and Aria Abubakar. "Supervised descent method for full-wave microwave imaging." In 2019 Photonics & Electromagnetics Research Symposium-Fall (PIERS-Fall), pp. 624-631. IEEE, 2019.
- Guo, Rui, Zekui Jia, Xiaoqian Song, Maokun Li, Fan Yang, Shenheng Xu, and Aria Abubakar. "Microwave inversion for sparse data using descent learning technique." In 2019 13th European Conference on Antennas and Propagation (EuCAP), pp. 1-4. IEEE, 2019.
- Guo, Rui, Zekui Jia, Xiaoqian Song, Maokun Li, Fan Yang, Shenheng Xu, and Aria Abubakar. "Application of Supervised Descent Method to Parametric Level-set Approach." In 2019 IEEE International Conference on Computational Electromagnetics (ICCEM), pp. 1-2. IEEE, 2019.