

导师风采:

王前个人简介

姓名: 王前

职称: 讲师

最高学位: 博士

所属硕点: 数学(运筹学与控制论)

所在系院: 数学与统计学院

联系方式: wq1q668930@126.com

专业方向: 地震信号处理, 机器学习



简介: 王前, 2019年毕业于西安交通大学, 获理学博士学位。2019年7月就职于湖北文理学院数学与统计学院。现从事的主要研究方向为地震信号处理。主持湖北省教育厅项目1项, 发表论文十余篇, 其中SCI检索论文5篇, 授权国家发明专利2项。

代表性研究论文:

(1) **Q. Wang**#, J. Gao, and N. Liu, Second-order synchrosqueezed wave Packet transform and its application for characterizing seismic geological structures [J]. IEEE Geoscience and Remote Sensing Letters. 2020, 17(5): 760-764.

(2) **Q. Wang**#, J. Gao, Application of synchrosqueezed wave packet transform in high resolution seismic time-frequency analysis [J]. Journal of Seismic Exploration, 2017, 26(6): 587-599.

(3) **Q. Wang**#, J. Gao, N. Liu, and X. Jiang, High-resolution seismic time-frequency analysis using the synchrosqueezing generalized S-transform [J]. IEEE Geoscience and Remote Sensing Letters, 2018, 15 (3): 374-378.

(4) **Q. Wang**#, J. Gao, An improved peak frequency shift method for Q estimation based on generalized seismic wavelet function [J]. Journal of Geophysics

and Engineering,2018, 15 (1): 164-178.

(5) **Q. Wang**#, Y. Li, S. Chen, and B. Tang, Matching Demodulation Synchrosqueezing S Transform and Its Application in Seismic Time-Frequency Analysis[J]. IEEE Geoscience and Remote Sensing Letters, 2021, PP(99): 1-5.

(6) N. Liu, Z. Li, F. Sun, J. Gao and **Wang Q***, The improved empirical wavelet transform and applications to seismic reflection data [J]. IEEE Geoscience and Remote Sensing Letter. 2019, PP(99): 1-5.

(7) N. Liu, J. Gao, B. Zhang, **Q.Wang** and X. Jiang, Self-Adaptive Generalized S-Transform and its application in Seismic Time-Frequency Analysis [J]. IEEE Transaction on Geoscience and Remote Sensing. 2019, PP(99): 1-11.

授权发明专利:

(1) S 变换域基于变分原理的 Q 值估计与补偿方法。专利号: 201710544007.3。

(2) 基于二阶同步挤压小波变换的地震资料时频分析方法。专利号: 201710543582.1。