XIE Fan

Associate Researcher

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Research Interests

Nonlinear acoustics and nonlinear elasticity in heterogenous medium
Interferometric time series analysis
Inverse problems in random and complex medium

Work Experience

2011-	*Assistant Research Scientist* Institute of Geophysics, China Earthquake Administration, China
2013-2014	*Visiting Scientist* Isterre, CNRS & Université Joseph Fourier, France

Education

2007-2011	**Ph.D** in solid geophysics Institute of Geophysics, China Earthquake Administration, Beijing, China
2004-2011	**M.S** in communications engineering China University of Geosciences, Beijing, China
1999-2003	**B.S** in compute science Jilin University, Jilin, China

Publications

1. **XIE Fan**, Larose E., Moreau L. 2016. Characterizing extended changes in a multiple scattering medium: numerical simulations. *Waves in Random and Complex Media*, preparing.
2. **XIE Fan**, Moreau L., Larose E. 2016. A probabilistic approach to locate the changes in heterogeneous medium with coda waves. *Ultrasonics*, 65:106-114.
3. **XIE Fan**, Guo Z.W., Zhang J.W. 2014. Strategies for reliable second harmonic of nonlinear acoustic wave through cement-based materials, *Nondestructive Testing and Evaluation*, 29(3):10–21
4. **XIE Fan**, Ge H.K., Guo Z .W. 2013. The Measurement of Acoustic Nonlinearity Parameter Using Second Harmonics in Cement Specimens. *Chinese Journal of Mechanical Engineering* (in Chinese), 9077:156-162
5. Guo Z.W., Ge H.K., **XIE Fan**. 2013. Ultrasonic harmonic characteristic in rock and its variation with stress. *Journal of Chinese University of Petroleum* (in Chinese), 37(3):50-56
6. **XIE Fan**. 2012. Methods and Application on Reducing Man-made Electromagnetic Noise in Geomagnetic Field Observation. *Progress in Geophysics* (in Chinese). 27(3): 967-976

Conferences & Proceedings

1. A Novel Experiment Method of Evaluating the Brittleness of Rock. *SPE/EAGE European Unconventional Resources Conference and Exhibition*. Vienna, Austria, 2014.