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-	Associate 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.