Curriculum Vitae

About

Name: Tengfei Wang
Gender: Male
Profession:
Geophysics
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Language

CET-6：522

Programming

Unix/Linux
C/C++
MPI/OpenMP
Shell/Python/Java
MySQL

Special skills

1. High-performance computing with C through MPI & OpenMP.
2. C++/Python/Java/MySQL & Unix/Linux OS
3. Large data processing & Small-cluster maintenance experience.
4. Good mathematical background.

Education

2011-2017 PhD. Tongji University Profession: Geophysics

2007-2011 B.S. Tongji University Profession: Geophysics

Research

2010-2011 **Local angle domain imaging in azimuthally anisotropic media**

Complete MPI algorithm independently & publish SCI journal article as second author.

2011-2013 **Velocity model building with Tomography based on angle gather in depth domain**

Combine open-source software to solve large spare matrix in geophysical problem & parallelization it with OpenMP and MPI

2013-2015 **Elastic full waveform inversion based on wave mode decomposition**

Complete algorithm design and programming with hybrid MPI+OpenMP method to solve the memory consumption problem. The SCI journal article as first author is under review.

2015 – **Elastic reflection waveform inversion based on wave mode decomposition**

Transplant open-source algorithm from Java and Python platform to C program, in which the algorithm was used to recognize the similar behavior in geophysical data as in audio and video. The article under this subject is preparing.

Internship

2012-2014 **CNPC CDEC Sichuan Geophysical Company**

Participate the project of my tutor and transplant the Tomography algorithm into the platform of their company.

2011-2012 **Sinopec research center in Nanjing**

Participate the project of my tutor and take responsibility to the test and transplantation of the algorithm. Complete part of the algorithm optimization.

Honor

2011 Geophysical scholarship of Liu Guangding

2012 The Graduate National scholarship

2013 Geophysical scholarship of Tongji University

Publication

2012 **Geophysics: Azimuth-preserved local angle-domain prestack time migration in isotropic vertical transversely isotropic and azimuthally anisotropic media**

Jiubing Cheng, Tengfei Wang, Chenglong Wang, Jianhua Geng

2016 **Geophysics: Elastic full waveform inversion based on mode decomposition: The approach and mechanism**

Tengfei Wang, Jiubing Cheng (in review)

International experience

2016 **3-month visit in KAUST**

2016 **EAGE annual meeting**

Oral Presentation: Comparison between mode decomposition based and Gaussian Newton methods in elastic full waveform inversion

2015 **EAGE annual meeting**

Oral Presentation: Elastic wave mode decoupling for full waveform inversion

2012 **SEG annual meeting**

Oral presentation: Pure mode modeling and reverse-time migration of P-wave in HTI and orthorhombic media