Journal of Remote Sensing & GIS
ISSN: 2469-4134

Chen., J Geophys Remote Sensing 2012, 1:1
DOI: 10.4172/2169-0049.1000e101

Editorial Open Access

Exploration Geophysics and Open Access Journals

Jing-Bo Chen*

Institute of Geology and Geophysics, Chinese Academy of Sciences, Bei-Tu-Cheng-Xi-Lu 19, Chao-Yang District, Beijing, China

Seismic numerical modeling and migration imaging are two important aspects of exploration geophysics, which play an increasingly important role in finding and characterizing potential petroleum reservoirs. Seismic numerical modeling is to solve the seismic wave equation numerically in order to study wave propagation and predict seismograms. Seismic migration imaging is to determine the structures of the subsurface by utilizing the correlation of source wavefield and receiver wavefield. With the development of high-accuracy and large-scale seismic exploration, high-accuracy and efficient algorithms in seismic numerical modeling and migration imaging are now in great demand. To meet this demand, worldwide researchers need to communicate and cooperate with each other in an efficient and effective way. Traditional academic journals play an important role in this regard in that they provide a platform for researchers to publish their problems and their solutions to problems. However, traditional academic journals are usually not open access publications, which limit their function as a communication platform for worldwide researchers. Therefore, new types of publications are needed, in particular in this information era.

Open access journals are a new type of publications as opposed to the traditional journals, and have become a trend of development of publications. The authors and copyright holders of open access journals grant to all users a free, irrevocable, worldwide, and perpetual right of access to, and a license to copy, use, distribute, transmit and display the work publicly. Theses features of open access journals greatly strengthen the function of the traditional journals as a communication platform. With open access journals, worldwide researchers can publish their problems and their solutions to problems in a more flexible and interactive way. For example, in term of exploration geophysics, authors can publish not only their algorithms for seismic numerical modeling and migration imaging, but also the corresponding software implementing these algorithms. This software can play a critical role in helping the worldwide audience to understand the algorithms. In return, worldwide readers can improve these algorithms and corresponding software.

Now a new open access journal of OMICS Publishing Group, Journal of Geophysics & Remote Sensing, has appeared. It will play an important role in developing high-accuracy and efficient algorithms in seismic numerical modeling and migration imaging among diverse topics of geophysics and remote sensing. A very attracting feature of OMICS Publishing Group's publications is that user-friendly website-translation of published papers to more than 50 languages is available and the readers can choose the language to read the papers. This feature further strengthens the function of the traditional journals as a communication platform for worldwide researchers. An ancient Chinese philosopher Lao-Zi said, "A saint does not hide his/her knowledge. The more he/she gives to others, the more he/she gets from others." This demonstrates the importance and benefits of communication. Worldwide researchers can benefit from communication by using the flexibility and interactive nature of Journal of Geophysics & Remote Sensing.

***Corresponding author:** Jing-Bo Chen, Professor, Institute of Geology and Geophysics, Chinese Academy of Sciences, Bei-Tu-Cheng-Xi-Lu 19, Chao-Yang District, Beijing, China, E-mail: chenjb@mail.iggcas.ac.cn

Received March 01, 2012; **Accepted** March 02, 2012; **Published** March 05, 2012

Citation: Chen JB (2012) Exploration Geophysics and Open Access Journals. J Geophys Remote Sensing 1:e101. doi:10.4172/2169-0049.1000e101