



Acoustic Imaging Technology and Applications

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Message from the Guest Editor

Significant advances of acoustical imaging methodology and instrumentation resulted in a sophisticated technique applied to a wide range of fields including medical diagnostic imaging, underwater imaging and SONAR, as well as non-destructive testing and geophysical exploration. The beginnings of sonar and ultrasound for medical imaging can be traced in the very beginning of 1900s. Diagnostic medical ultrasound has been in use for over 50 years and still continues to evolve at a surprisingly rapid rate. The intent of this Special Issue is to create a forum for publishing recent advances in acoustic imaging in order to draw together the different technologies developed in medical, sonar, seismic and technical imaging, to highlight the similarities between the topic areas and to present their common underlying theory. Indeed, any work concerning the use of an acoustical imaging modality, as well the development of new application procedures and/or the treatment of acoustic images, may fall within the scope of this Special Issue. Of course, papers must present novel results, or the advancement of previously published data, and the matter should be dealt with scientific rigor.





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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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