Ultrasound Imaging in Medicine and Biology

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Ultrasound imaging is the most popular clinical imaging modality except conventional X-ray and usually characterized as easy, portable and safe imaging. Not only that, it has achieved temporally and spatially highest resolution imaging in clinical situations. Ultrasonic transducer is made of piezo-electric material and it sends ultrasonic signal into body and receives the reflected signal to form a tomographic image. Besides the conventional morphology imaging, ultrasound can provide functional information such as blood flow or biomechanical properties.