Special Issue

Novel Applications of Ultrasound Imaging

Message from the Guest Editor

Advances in technology in electronics and better computing power have revolutionized ultrasound practice. Developments have been seen in transducer materials, array designs, and signal processing and have resulted in novel imaging modes. Microbubble contrast agents have extended the clinical and research applications of ultrasound. Noninvasive techniques like Shear-wave imaging and fat quantification have helped with decreasing invasive procedures. Techniques like fusion imaging and navigation have enabled performing invasive procedures. Ultrasound has recently also moved into therapeutic applications with high-intensity focused ultrasound (HIFU) and microbubble-assisted delivery of drugs. Artificial imaging is on the cusp of becoming mainstream in ultrasound. This SI invites researchers to submit original research papers and review articles related to novel techniques in ultrasound. Topics of interest include but are not limited to:

- Ultrasound contrast
- Ultrasound elastography and fat quantification
- Ultrasound-guided therapeutics
- Novel transducer and signal processing techniques
- Artificial Intelligence imaging in ultrasound

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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