ULTRASONICS

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DESCRIPTION

Ultrasonics is the only internationally established journal which covers the entire spectrum of ultrasound research, technology and applications. Ultrasonics contains a variety of sections to keep its readers abreast of the state of the art in both fundamental investigation and real-world development related to ultrasonics. Ultrasonics publishes papers of exceptional quality and of relevance to both academia and industry. Manuscripts in which ultrasonics is the core and not simply an incidental tool or secondary issue are welcomed.

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Sonoluminescence; Ultrasound cavitation and bubble dynamics; Ultrasonically produced streaming and radiation pressure; Ultrasonic fatigue. **Ultrasonic Devices, Transducers and Systems** - Ultrasound sensors, transducers and sensor networks; Ultrasound calibration; Instruments, devices and systems for ultrasound research and applications; Ultrasonic motors and actuators; Ultrasonics in control applications; Robotics and automated ultrasonic systems; Ultrasound-related smart materials and structures. **Underwater Acoustics and Ultrasonics** - Reflection, refraction, diffraction, interference, scattering and reverberation of waves under water; radiation from objects vibrating under water; Ultrasound microfluidics. **Keywords:** physical ultrasound; ultrasonic wave propagation; biomedical ultrasound; therapeutic ultrasound; ultrasound NDE/SHM; material characterization using ultrasound; ultrasound devices, transducers and systems; industrial applications of ultrasound; non-linear ultrasonics; bubble dynamics, laser ultrasonics; ultrasound in metamaterials; ultrasound imaging of biological materials; phononic crystals.

**AUDIENCE**

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