



2018 IEEE International Ultrasonics Symposium



(Including Short Courses & Tutorials)

October 22-25, 2018

Portopia Hotel, Kobe, Japan

Sponsored by the IEEE Ultrasonics, Ferroelectrics, & Frequency Control Society

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The annual 2018 IEEE International Ultrasonics Symposium (IUS) will be held at the Portopia Hotel, Kobe, Japan, from October 22-25, 2018. The Portopia Hotel is located on Port Island, the first man-made island of Kobe. Access to Port Island is easy because the Kansai International Airport (KIX) is directly connected by a High Speed Ferry (Bay Shuttle).

The abstracts should be submitted in electronic form according to the specific information posted on the conference web page. Each abstract will receive careful review and evaluation by the Symposium Technical Program Committee. Evaluation criteria will include originality of the work, contribution to the state-of-the-art, and overall interest to the ultrasonics community. Papers are solicited for this conference describing original work in the field of ultrasonics from the following **subject classifications**:

Group 1: Medical Ultrasonics

MBB Medical Beamforming and Beam Steering
MBE Biological Effects & Dosimetry
MBF Blood Flow Measurement
MCA Contrast Agents
MEL Elastography
MIM Medical Imaging
MPA Medical Photoacoustics
MSD System & Device Design
MSP Medical Signal Processing
MTC Medical Tissue Characterization
MTH Therapeutics, Hyperthermia, and Surgery

Group 2: Sensors, NDE & Industrial Applications

NAF Acoustic Microfluidics
NAI Acoustic Imaging
NAM Acoustic Microscopy
NAS Acoustic Sensors
NDE General NDE Methods
NEH Energy Harvesting
NFM Flow Measurement
NMC Material & Defect Characterization
NPA Photoacoustics
NPC Process Control
NSP Signal Processing
NTD Transducers: NDE and Industrial
NUA Underwater Acoustics
NWP Wave Propagation

Group 3: Physical Acoustics

PAT Acoustic Tweezers and Particle Manipulation
PNL Nonlinear Acoustics
PGP General Physical Acoustics
PTE High Performance and Temperature Effects
POA Opto-acoustics
PPN Phononics
PTF Thin Films
PMI Modeling and Inversion
PUM Ultrasonic Motors & Actuators
PNR Non-Reciprocal Acoustics

Group 4: Microacoustics – SAW, FBAR, MEMS

ADA Device Applications
ADD Device Design
ADM Device Modeling
AMP Materials & Propagation
AMR Microacoustic Resonators
AMS Microacoustic Sensor Devices & Apps.
ATR Tunable & Reconfigurable Devices

Group 5: Transducers & Transducer Materials

TMC Materials Fabrication and Characterization
TMO Modeling (Analytical & Numerical)
TFT Thin and Thick Piezoelectric Films
TMU Micromachined Ultrasonic Transducers
TMI Biomedical Diagnostic and Imaging Transducers
TTT Biomedical Therapeutic Transducers
THF Front-end and Integrated Electronics
TFI High Frequency Transducers
TPF Applications of Piezoelectrics & Ferroelectrics

Student Travel Support: Limited funds are available to support **IEEE UFFC student member attendees** at the 2018 symposium. Awards will be given on a competitive basis. Please see the conference website for details.

Student Paper Competition: Students submitting abstracts are invited to participate in a student paper competition. To participate, the student must be the lead author and present his/her paper. Further information will be posted on the conference website.

Visa Application: Please visit the Symposium web site for updated information regarding invitation letters, and apply in advance if you need a visa to travel to Japan. The information is expected to be available in February 2018.

First Call for Papers

Abstract deadline: *May 4, 2018*

Abstract submission and conference website:

<http://sites.ieee.org/ius-2018/>