

		TIMING	ABSTRACT # Ref.	POSTER # at ARSENAL	TITLE
MONDAY	Acoustic waveguide applications	15h	510	1	Packageless and CMOS Compatibility of SAW Devices: Theoretical and Experimental Investigations
	Acousto-Optic Interactions and Wave Phenomena in Optics and Acoustics	15h	137	2	Acousto-optic filtration of interfering light beams for 3D visualization of amplitude and phase structure of micron-size specimens
		15h	241	3	Photoelastic and Acousto-Optic Properties of KDP Crystal Applied in Wide Angle Tunable Filters
		15h	298	4	Use of Linear Frequency-modulated Acoustic Pulses for Synthesizing Instrument Functions of AOTF Spectrometer
		15h	350	5	Dynamic behavior of a multiwavelength acousto-optic
		15h	353	6	Application of Optical Freedom Degrees Principle to Acousto- Optic Devices
		Bio-medical ultrasound for therapy	15h	14	7
	15h		114	8	The measurement of temperature gradients in a soft tissue phantom using PVDF arrays:A simulation case using the Finite Element Method
	15h		232	9	New Combinational Method for Noninvasive Treatments of Superficial Tissues for Body Aesthetics Applications
	15h		251	10	Structure-based Ultrasound Image Similarity Measurement
	15h		539	11	Experience of using high-intensity focused ultrasound ablation (HIFU) in the treatment of benign tumors of the mammary glands
	DEVICE TECHNOLOGY	15h	74	12	Design of a High-output Airborne Ultrasonic Transducer using Polymer-based Elastomer
		15h	110	13	Dynamic frequencies correction in piezo-electric transducers using Artificial Intelligence techniques
		15h	235	14	A Novel Approach for Optimization of Finite Element Models of Lossy Piezoelectric Elements
		15h	249	15	Modeling based on Spatial Impulse Response model for optimization of InterDigital Transducers (SAW-IDT) for Non Destructive Testing
		15h	570	16	Tonpilz Underwater Acoustic Transducer Integrating Lead-free Piezoelectric Material
		15h	301	17	A Resonance Tracking Method Using Current Sensor for High Power Ultrasonic Transducer
		15h	634	18	Surface acoustic wave scattering from an array of irregularities comparable with a wavelength
	Nonlinear Ultrasonic NDE/NDT	15h	317	19	Propagation Characteristics in the Fundamental and Second-order Harmonic Frequency Components of Surface Acoustic Waves
		15h	385	20	Transmission of larger amplitude ultrasound with SiC transistor pulser for subharmonic signal measurement at closed cracks
		15h	465	21	Evaluation of Material Nonlinearities Using Rectangular Pulse Trains for Excitation
		15h	177	22	Diagnosis of Metal Plates with Defects Using Laser Vibrometer
		15h	340	23	Experimental verification of Relationship between Absolute Ultrasonic Nonlinear Parameter and Relative Ultrasonic Nonlinear Parameter
	Physical acoustics	15h	231	24	Experimental Study of Relationships between Ultrasonic Attenuation and Dispersion for Ceramic Matrix Composites
		15h	414	25	Numerical Model of Lateral Electric Field Excited Resonator on Piezoelectric Plate Bordered with Viscous and Conductive Liquid
		15h	439	26	Angular Spectrum Method for the Focused Acoustic Field of a Linear Transducer
		15h	612	27	Characterization of ultrasonic transducers based on spectrum correction algorithm
		15h		28	
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		15h		30	
Bio-medical ultrasound for therapy	9h30	573	1	Characterization of pressure fields produced by a focused transducer-a home made system design	
	9h30	210	2	Power evaluation of high intensity focused ultrasound transducer based on acoustic field measurement in pre-focal region	
	9h30	149	3	An Intercomparison of Ultrasound Dose Measurements	
	9h30	469	4	Thermal ablation of the pancreas with intra-operative high-intensity focused ultrasound (HIFU): safety and efficacy in a porcine model	
	9h30	165	5	Iterative time reversal simulation for selective focusing in multi-target nonlinear media	

	9h30	639	6	Uncertainty of Temperature Measurement during Therapeutic Ultrasound Sonication
Acousto-Optic Interactions and Wave Phenomena in Optics and Acoustics	9h30	139	7	Acousto-optical imaging system for insitu measurement of the temperature distribution in micron-size specimens
	9h30	383	8	Peculiar Cases of Acoustic Wave Reflection in Acousto-optic Paratellurite Crystal
	9h30	528	9	Contribution of elasto-optic and exoelectric effects to the linear light diffraction on periodic domain structures in lithium niobate
	9h30	567	10	Multibeam Holographic Formation of the Polarization Photonic Structures in Polymer-Dispersed Liquid Crystals
	9h30	112	11	Influence of Acoustic Field Structure on Polarization Characteristics of Acousto-Optic Interaction in Crystals
	Bulk wave NDT/E: modelling and simulation	9h30	194	12
9h30		228	13	Research of Evaluation Method about Cement Bonding Quality of the Second Interface
9h30		330	14	Analysis of transient acoustic radiation field from pulse-driven finite aperture piezoelectric transducer
9h30		626	15	Parallel Computing for Real-time Topological Imaging
Device technology	9h30	43	16	A multiplexed 2D-ring antenna for Ultrasonic Computed Tomography
	9h30	62	17	Development of a multichannel pulser for acoustic scanning microscopy
	9h30	111	18	Evaluation of mechanical losses in piezo-electric plates using genetic algorithm
	9h30	597	19	Electrical Interfacing Circuit Discussion of Galloping-Based Piezoelectric Energy Harvester
	9h30	6	20	Study of Vertical Sound Image Control Using Parametric Loudspeakers
	9h30	73	21	High power electromechanical characterization of piezoceramic elements and low frequency ultrasound transducers by using algorithm for tracking changes in resonant frequency and electrical impedance
	9h30	637	22	Introduction of an All-Optical, High-Sensitivity, Large-Bandwidth Ultrasound Sensor: From Lab to Market
Physical acoustics	9h30	236	23	Full characterization of rigid porous material through ultrasonic reflected waves at oblique incidence
	9h30	246	24	Lamb Type Surface Wave in Piezomagnetic Layer
Picosecond laser ultrasonics	9h30	405	25	Fully passive femtosecond time-resolved common-path interferometer in reflection mode
Ultrasonic particle and fluid manipulation as the "Acousto-ultrasonics 2015"	9h30	127	26	Traveling Surface Acoustic Waves Microfluidics
	9h30	296	27	ultrasonic enrichment of flowing blood cells in capillaries: influence of the flow rate
	9h30	417	28	Ultrasonic Micro fluidic Actuation with Secondary Bjerknes Forces on Bubbles
	9h30	484	29	Surface Acoustic Wave Based Cell Measurements in a Disposable Chamber
	9h30	427	30	Acoustic separation of cells and particles in a single laminar flow stream
Acousto-Optic Interactions and Wave Phenomena in Optics and Acoustics	15h	408	1	Acousto-optical deflector with great angular aperture on new KLu
	15h	306	2	Acoustooptic Figure of Merit Search
	15h	257	3	Discrete Diffraction of Light in 1D Photonic Lattice Induced in Lithium Niobate by Means of the Pyroelectric Effect
	15h	641	4	Acousto-Optics as an Efficient Method for Physical Measurements
Cardiovascular ultrasound image and signal analysis	15h	636	5	Effect of occlusions on cerebral blood flow in an anatomical replica of the circle of Willis
Device technology	15h	54	6	Quasi-field Method For Calculation of Surface Acoustic Wave Device's Characteristics
	15h	161	7	Orthogonal wavelet deconvolution based on system identification of electronic transfer function for ultrasonic signals in pulse-echo mode
	15h	304	8	Distributed force sensing using frequency response of acoustic waveguide made on a rubber substrate
	15h	358	9	Short Lag Spatial Coherence Ultrasound Imaging Optimization by Reduction of 'Lag' Dependency
High power ultrasound in materials engineering	15h	198	10	Effects of High Power Ultrasonic Irradiation on the Microstructures and Mechanical Properties for Al-Si Alloys
Physical	15h	7	11	Prediction of the Group and Phase Velocities of Acoustic Circumferential Waves by Fuzzy logic and neural network
	15h	143	12	Imaging of Geological Conditions Ahead of Drill Bit Using a Drilling Hole Dipole Source

acoustics	15h	224	13	Study of Elastic constants of Porous Silicon by using Two Different Methods
	15h	243	14	Analytical Characteristics of SH-SAW in Orthorhombic Piezoelectrics Beyond Quasi-static Approximation
Structural Health Monitoring	15h	133	15	A gas leak and structural damage detector for spacecraft on-orbit based on two-staged acoustic sensors array
	15h	604	16	Structural Health Monitoring of hollow cylinder using cross-correlation of ambient noise field
	15h	633	17	Structural Health Monitoring in Hollow Cylindrical Structures Using Helical Guided Wave Propagation
Ultrasonic particle and fluid manipulation as the "Acoustofluidics 2015"	15h	429	18	Acoustic sorting and concentration of cancer cells
	15h	36	19	Polymer-Shelled Ultrasound Contrast Agents in Microchannel Acoustophoresis
	15h	428	20	A Numerical Analysis of Phononic-Assisted Control of Ultrasound Waves in Acoustofluidic Devices
	15h	463	21	Planar acoustic nodes in large format Acoustofluidic chambers for high flow rate sample processing applications
Ultrasound in Food science, Pharmaceutical and Cosmetics	15h	86	22	Impact of power ultrasound on the quality of fruits and vegetables during dehydration
	15h	99	23	Exploring the use of low-intensity ultrasonics as a tool for assessing the salt content in pork meat products
	15h	582	24	Ultrasonic Shear Rheometry to Monitor the Isothermal Crystallization Behavior of Cocoa Butter
	15h	603	25	High Power Ultrasound Intensification of Supercritical CO ₂ Processes: Assessment of Scale-Up
	15h	192	26	Investigating Noodle Dough Using Air Coupled Ultrasound
	15h		27	
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Bio-medical	9h30	175	1	Detection of Microcalcifications in Breast Tissue with Use of Acoustic Radiation Force
	9h30	212	2	CANCELLED
	9h30	252	3	The Biological Sensor for Detection of Bacterial Cells in Liquid Phase Based on Plate Acoustic Wave
	9h30	309	4	Multi-Element Compact Transducer Module System For Therapeutic Ultrasound
	9h30	113	5	Design of a simple pulse generator using an Arduino platform for ultrasonic applications
	9h30	600	6	Generating shear waves in the human brain for ultrasound elastography: a new approach
Chemical and molecular ultrasonics	9h30	55	7	Investigation of the surface condition of an electrode after electropolishing under the influence of Surface Acoustic Waves
	9h30	89	8	The effect of ultrasonic treatment in a novel synthesis route of layered double hydroxides
	9h30	253	9	Monitoring of Lactic Fermentation Process by Ultrasonic Technique
	9h30	355	10	Ultrasound Absorption in Imidazolium Based Room Temperature Ionic Liquids
	9h30	256	11	Characterization of olive oil by ultrasonic and physico-chemical methods
	9h30	394	12	Investigation of Sonodynamic Effects of Chloroaluminum Phthalocyanine on Ehrlich Ascites Tumor Cells
NDE / NDT	9h30	11	13	Thin wall pipe ultrasonic inspection through paint coating
	9h30	145	14	Split-Spectrum Signal Processing for Reduction of the Effects of Dispersive Wave Modes in Long-Range Ultrasonic Testing
	9h30	265	15	Time-Frequency Analysis of Lamb Waves Propagation in a Viscoelastic Plate
	9h30	619	16	New quick and reliable method for ultrasonic imaging of large metal or composite structures by generation of Guided Wave with matrix phased Array Technologies
	9h30	148	17	Mechanical Strain Monitoring in Plates Using Wavelet Coherence Based Filter of Wideband Ultrasonic Guided Waves
	9h30	406	18	Relation between the Ultrasonic Attenuation and the Porosity of a RTM Composite Plate

Physical acoustics	9h30	96	19	Study of Ultrasonic Machining by Longitudinal-Torsional Vibration for Processing Brittle Materials -Observation of Machining Mark
		97	20	Non-Contact Atomization of Droplets by Powerful Aerial Ultrasonic Source
	9h30	216	21	Single-transmitter on nonlinear mixing to measure acoustic nonlinearity
	9h30	281	22	Ultrasound wave phase conjugation in stationary and moving dispersive media
	9h30	454	23	A Comparative Analysis of Ultrasound Velocity in Binary Liquid Systems of PPG by Mathematical and Experimental Methods
	9h30	142	24	Dynamics of Microsphere Suspensions Observed by Frequency-Domain Dynamic Ultrasound Scattering Techniques
Standing waves, resonating and actuating ultrasonics	9h30	267	25	Acoustic levitation transportation of small objects using a vibrator of the ring type
	9h30	310	26	Design of a mechanical amplifier for the Langevin transducer
	9h30	421	27	Control of the Spectrum of magneto-acoustic Resonator
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Bio-medical	14h30	126	1	Orthogonal Decoding for High-bit Golay Excitation in Dual-Frequency Harmonic Imaging
	14h30	493	2	Ipsi- and contralateral motor response using ultrasound- induced neurostimulation in deeply anesthetized mice
	14h30	572	3	CANCELLED
	14h30	583	4	Ultrasound Characterization of Microbubble Populations in Complex Vascular Flow Phantoms
	14h30	601	5	Identifying cemento-enamel junction using high frequency ultrasound
	14h30	46	6	A 16-channel Reconfigurable Digital Transmit Beamformer using PWM Modulation for medical ultrasound imaging and HIFU beamforming applications
	14h30	549	7	Assessment of accuracy of assumed planar surfaces for ultrasound investigation of elastic surfaces
	14h30	378	8	Parametric Images of Microbubbles and Tissue Mimicking Phantoms Based on Nakagami Parameters Map
Guided wave NDT/E: modelling and simulation	14h30	94	9	Influences of electrical boundary conditions on second-harmonic generation of ultrasonic guided wave propagation in a piezoelectric plate
	14h30	238	10	The high-frequency scattering of the S ₀ Lamb mode by a circular blind hole in a plate
	14h30	390	11	The transmission of Lamb waves across adhesively bonded lap-joints to evaluate interfacial adhesive properties
NDE / NDT	14h30	123	12	Ultrasonic Imaging Through Thin Reverberating Materials
	14h30	132	13	Ultrasound aided leather tanning, experimental investigation and acoustic characterizations
	14h30	326	14	Enhancement of phased array ultrasonic signal in composite materials using TMST algorithm
	14h30	372	15	Modular air-coupled ultrasonic multichannel system for inline NDT
	14h30	58	16	Material characterization of layered structures with ultrasound
	14h30	389	17	F-SAFT imaging in the improvement of lateral resolution of defects detection using ultrasound phased arrays
	14h30	437	18	Semi-automatic characterisation of a large planar crack
	14h30	629	19	Some recent advances of ultrasonic diagnostic methods applied to materials and structures(including biological ones)
	14h30	244	20	High frequency acoustic rectometry for solid/liquid interface characterization: application to droplet evaporation
	Physical acoustics	14h30	122	21
14h30		230	22	A nondestructive imaging method for detecting defect in mortar sample by high-intensity aerial ultrasonic wave
14h30		275	23	Focalization of Acoustic Vortices Using Phased Array Systems
14h30		292	24	Theoretical and numerical study of the reflection of an ultrasonic pulse radiated by a linear phased array transducer at a fluid-fluid interface

	14h30	448	25	Ultrasonics in an Atomic Force Microscope
	14h30	632	26	Optimization of Surface Acoustic Wave Streaming in PDMS microfluidic channels, effect of Session book 2015 ICU, Metz 21 frequency
Sonic and phononic crystals	14h30	59	27	Quaternion Formalism for the Intrinsic Transfer Matrix
	14h30	233	28	Phononic Crystal of Surface Acoustic Wave based on Gold Pillar Array on LiNbO3 Substrate
	14h30	258	29	Near-Field Coupling of Resonators in Locally-Resonant Sonic Crystals
	14h30	556	30	Analysis of a phononic crystal constituted of piezoelectric layers using electrical impedance measurement
Acoustic Metamaterials: fundamentals, applications and emerging topics	9h30	49	1	Acoustic superfocusing by solid metamaterials for subwavelength imaging
Instrumentation and signal in acoustics	9h30	169	2	Nondestructive Detection of Air Traces in the UHT Milk Package by Using Ultrasonic Waves
	9h30	184	3	Microcontroller Based Control System for Ultrasound NDT in Wood
	9h30	209	4	Determination of the Flight Time of the Acoustic Waves Transmitted by the Cement Paste in Solidification by the Image Processing
	9h30	534	5	Contrast optimization by metaheuristic for inclusion detection in ultrasound imaging
	9h30	45	6	Computer-Controlled High Resolution Arbitrary Waveform Generator (HRAWG) for Focusing Beamforming Applications
	9h30	163	7	Study on the algorithm to detect defects by the non-contact acoustic inspection method using vibration energy ratio and spectrum entropy
Micro/nano technology-based transducers, acoustic microsystems, and applications	9h30	91	8	Fabrication of new Interdigital Transducers for Surface Acoustic Wave Device
	9h30	156	9	Fabrication and Characterization of ZnO Nanowire-Based Piezoelectric Nanogenerators for Low Frequency Mechanical Energy Harvesting
	9h30	174	10	Ultrasonic Subwavelength Focusing Above Micromachined Membrane Array Using Time Reversal
	9h30	511	11	Investigation of Heterostructures for IDTs Protection at High Temperature Conditions up to 850 °C
	9h30	587	12	On the modelling of electrical response of SAW resonator-based sensors versus temperature
	9h30	531	13	Normal mode theory applied to linear arrays of capacitive micromachined ultrasonic transducers
NDE / NDT	9h30	191	14	Ultrasonic testing of multiphase metal/ceramic syntactic foams with additives
	9h30	471	15	Photoacoustic technique for thermal conductivity study of porous semiconductors
Phononic crystals and metamaterials	9h30	419	16	Acoustic Metamaterial Behavior Of Three-Dimensional Periodic Architectures Assembled By Additive Manufacturing
	9h30	434	17	Photons and phonons coupling in piezoelectric periodic structure cavities
	9h30	516	18	Study of an hybridization gap in a one dimensional piezoelectric phononic crystal
Soft Tissue Quantitative Ultrasound	9h30	302	19	Effect of non-speckle echo signals on tissue characteristics for liver fibrosis using probability density function of ultrasonic B-mode image
	9h30	386	20	Estimation of Local Sound Velocity in Pulse Echo Ultrasound Imaging
	9h30	609	21	Sound Speed Measurement of Chicken Liver from 22° C to 55° C
	9h30	180	22	In and ex-vivo myocardial tissue temperature monitoring by combined infrared and ultrasonic thermometries
	9h30	521	23	Automatic Cataract Classification based on Ultrasound Techniques using Machine Learning: A comparative Study
	9h30	263	24	Tissue Characterization on Ultrasound Harmonic Signals using Nakagami Statistics
	9h30	431	25	A 3D, 3-Phase, Level-Set Segmentation Method for Quantitative Ultrasound Processing of Human Lymph Node Data
	9h30	416	26	Investigation of post-mortem tissue effects using long-time decorrelation ultrasound
Waves in granular media and structures	9h30	290	27	Ultrasonic wave transport in weakly coned granular media in the intermediate frequency regime
	9h30	642	28	Effect of magnetic field on sound propagation in cohesive powders at low consolidation
	9h30		29	
	9h30		30	