Student Paper Finalist Session #1
Wednesday, September 9
4:15 – 6:15 AM

Group 1

2352
4D Flow and Wall Shear Stress Using Volumetric Ultrasound Image Velocimetry
Kai Riemer
Department of Bioengineering
Imperial College London

1392
SVD Beamforming for Ultrafast Aberration Correction and Real-Time Speed-of-Sound Quantification
Hanna Bendjador
Physics for Medicine Paris, ESPCI,
PSL Research University, INSERM, CNRS

1762
Determinants of the Propagation Velocity of Natural Shear Waves in Cardiac Shear Wave elastography
Stéphanie Bézy
Katholieke Universiteit Leuven

2455
Non-Invasive Optogenetic Activation with Functional Ultrasound
Christian Aurup
Columbia University

1500
Transcranial Histotripsy Initiates Immune Cascade in Murine Glioblastoma Tumors and Prolongs Survival
Sarah Duclos
Department of Biomedical Engineering
University of Michigan

1197
Photoacoustic Imaging of Organ Fibrosis
Eno Hysi
Department of Physics
Ryerson University

Group 2

1492
Tracking Performance in Ultrasound Super-Resolution Imaging
Iman Taghavi
Department of Health Technology
Technical University of Denmark (DTU)

1233
Photoacoustic tomography system using a ring-array sensor for early detection of inflammatory arthritis in a human finger
Misaki Nishiyama
Graduate School of Medicine
Kyoto University

2301
Enabling fast charging lithium ion batteries with surface acoustic wave devices
An Huang
Department of Material Science and Engineering
University of California San Diego

Student Paper Finalist Session #2
Thursday, September 10
4:15 – 6:15 AM

Group 3

1401
Ultrasound full-Waveform Inversion with Accurate Transducer Characterisation
Carlos Cueto
Department of Bioengineering
Imperial College London

2235
An Aluminum Nitride (AlN) Based Elastic Metamaterial with Guided Negative Refraction
Yanbo He
Purdue University
Indiana, USA

2299
Mechanical four-Wave Mixing in GHz phononic Circuit on thin-Film Lithium Niobate on Sapphire
Wentao Jiang
Ginzton Laboratory
Stanford University

Group 4

2275
Fast Simulation Method of Distributed Nonlinearities in Surface Acoustic Wave Resonators
Marta González-Rodríguez
Universitat Politècnica de Catalunya (UPC)

1336
High Frequency Solidly Mounted Resonator Using Ln Single Crystal Thin Plate
Kohei Matsumoto
Department of Robotics
Tohoku University

2056
A 14.5 GHz Lithium Niobate Acoustic Filter with Fractional Bandwidth of 2.93%
Liuqing Gao
Department of Electrical and Computer Engineering
University of Illinois at Urbana-Champaign

Group 5

2406
A 2D Ultrasonic Transmit Phased Array Based on a 32x32 CMUT Array Flip-Chip Bonded to an ASIC for Neural Stimulation
Chunkyun Seok
Department of Electrical and Computer Engineering
NC State University

2012
Laser Sensor Guided Intravascular Catheter with Ring Type Stack Transducer for Sonothrombolysis
Bohua Zhang
Department of Mechanical and Aerospace Engineering
NC State University

1161
High-performance transparent ferroelectric crystals for photoacoustic transducer applications
Chaorui Qiu
Electronic Materials Research Laboratory
Xi'an Jiaotong University