

26th International Congress on Sound and Vibration 2019 (ICSV26)

Montreal, Canada
7-11 July 2019

Volume 1 of 8

ISBN: 978-1-5108-9269-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2019) by International Institute of Acoustics & Vibration
All rights reserved.

Printed with permission by Curran Associates, Inc. (2019)

For permission requests, please contact International Institute of Acoustics & Vibration
at the address below.

International Institute of Acoustics & Vibration
c/o Dr. Malcolm J. Crocker
1418 Wiggins Hall
Auburn, AL 36849, USA

Phone: (334) 844-3248

Fax: (334) 844-3306

www.iiav.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

THEME AREA T01 - ACOUSTICAL MEASUREMENT AND INSTRUMENTATION

REGULAR SESSION T01 RS01 [5] - ACOUSTIC IMAGING AND ACOUSTIC DETECTION

AN ANALYTICAL MODEL OF BURIED PLASTIC GAS PIPE FOR ACOUSTIC DETECTION	1
<i>Liu Ying, Habibi Daryoush, Chai Douglas, Wang Xiuming, Chen Hao</i>	
INVERSE ANALYSIS OF VOCAL SOUND SOURCE BY ACOUSTIC ANALYSIS OF THE VOCAL TRACT	9
<i>Yokota Kazuya, Ishikawa Satoshi, Koba Yosuke, Kijimoto Shinya</i>	
EXPERIMENTAL MODAL ANALYSIS BASED ON NON-CONTACT MEASUREMENTS WITH A COMMERCIAL MICROPHONE ARRAY	17
<i>Bölke Olaf, Garcia Joaquin, Heimann Jan</i>	
ACOUSTICAL SOURCE RECONSTRUCTION FROM NON-SYNCHRONOUS MEASUREMENTS BY GIBBS SAMPLING	25
<i>Yu Liang, Antoni Jerome, Wu Haijun, Leclere Quentin, Jiang Weikang</i>	
NUMERICAL SIMULATION OF BUBBLE SIZE MEASUREMENT VIA WAVE PHASE CONJUGATION	33
<i>Modarreszadeh Amir, Timofeev Evgeny, Merlen Alain, Pernod Philippe</i>	

REGULAR SESSION T01 RS02 [17] - MEASUREMENT TECHNIQUES AND SENSORS

VIBRATION ANALYSIS OF ELECTRICAL CONNECTOR UNDER DIFFERENT AMBIENT CONDITIONS	41
<i>El Abdi Rochdi, Labbé Julien, Le Strat Florence</i>	
EXPERIMENTAL RESULTS OF DOUBLE NEAR-FIELD HOLOGRAPHY METHOD WITH VARIABLE DISTANCE BETWEEN MEASUREMENT PLANES	47
<i>Nagamatsu Masao</i>	
HYBRID PIEZOELECTRIC VEHICLES (HPEV™) AND MOTORS (HPEM™)	54
<i>Genis Vladimir, Khutoryansky Naum</i>	
IN-SITU MEASUREMENT OF ACOUSTIC IMPEDANCE AT OBLIQUE INCIDENCE BY USING A PARAMETRIC LOUDSPEAKER	62
<i>Sugahara Akiko, Lee Hyojin, Sakamoto Shinichi, Takeoka Shigeto</i>	
DIFFERENTIAL MICROPHONE ARRAY: DESIGN FOR ACOUSTIC LOCALIZATION WITHIN AIRCRAFT CABIN	70
<i>Meriot Benoit, Derré Jeremie, Bareille Olivier, Juvé Daniel, Ichchou Mohamed</i>	
ACOUSTIC DECISION SUPPORT SMARTPHONE APPLICATION FOR BUILDING STAKEHOLDERS	78
<i>Martin Alexis, Duée Raphaël, Blais Jade</i>	
SOUND FIELD RECONSTRUCTION IN A ROOM USING LOW-RANK APPROXIMATION OF MODESHAPES: VALIDATION AND APPLICATION	86
<i>Pham Vu Thach, Lissek Hervé</i>	
A NEW TACTILE SENSOR FOR WIDE RANGE FORCE UTILIZING MAGNETORHEOLOGICAL FLUID IMMERSSED SPONGES	94
<i>Park Yu-Jin, Yoon Ji-Young, Choi Seung-Bok</i>	
STUDY ON SKIN PROPAGATION OF SPEECH USING THREE DIMENSIONAL DISPLACEMENT MEASUREMENT	101
<i>Nakayama Masashi, Ishimitsu Shunsuke, Iijima Satoshi, Futawatari Yoshitoyasu</i>	
CHARACTERIZATION OF SOIL ATTENUATION FOR ACOUSTIC CONDITION ASSESSMENT OF WATER-FILLED METAL PIPES	105
<i>Perrier Sebastien, Moslemi Mohammadreza, Robertson Bruce, Burtea Valentin, Moore Ian</i>	
MESH CONDITION MONITORING FOR SPUR GEARS BY VIBRO-ACOUSTIC ADMITTANCE MODULATION OF PIEZOELECTRIC ELEMENTS ATTACHED ON THE END FACE	113
<i>Masuda Arata, Nonaka Shota, Matsumura Takaki</i>	

IN-SITU CHARACTERIZATION OF A VIBRO-ACOUSTIC SUBDOMAIN	120
<i>Totaro Nicolas, Grialou Matthieu, Bocquillet Arnaud, Guyader Jean-Louis</i>	
SIGNAL PROCESSING AND ENVIRONMENTAL CONSIDERATIONS IN THE DEFINITION OF THE ACOUSTIC PASCAL USING OPTICS.....	126
<i>Koukoulas Triantafillos, Cho Wan-Ho</i>	
REVIEW OF OPTICAL METHODS AND THE TRANSITION FROM A CLASSICAL TO QUANTUM FRAMEWORK IN ACOUSTICS	134
<i>Koukoulas Triantafillos, Cho Wan-Ho, He Longbiao, Yang Ping</i>	
EFFECT OF BOUNDARY CONDITIONS ON RECEIVING TRANSDUCER FOR LWD MULTIPOLE ACOUSTIC LOGGING TOOL	142
<i>Sun Zhifeng, Tang Xiaoming, Su Yuanda, Liu Xien, Chen Honghai</i>	
DESIGN OF THE WIRE SENSOR FOR MONITORING WATER PRESSURE IN PLASTIC PIPES.....	147
<i>Pingling Sun, Yan Gao</i>	
IDENTIFICATION OF DYNAMIC BEHAVIOUR OF FOREARM FOR ACTIVE CONTROL OF PATHOLOGICAL TREMOR	154
<i>Zippo Antonio, Pellicano Francesco, Iarriccio Giovanni, Valzania Franco, Cavallieri Francesco</i>	

REGULAR SESSION T01 RS03 [5] - MEASUREMENT UNCERTAINTY IN ACOUSTICS

UNCERTAINTY ANALYSIS OF ENVIRONMENTAL SOUND: A STATISTICAL ANALYSIS OF 100 SITES WITH MEASUREMENT OVER SEVERAL DAYS.....	162
<i>Fenlon John, Whitfield William</i>	
ISO 9614-2 APPLIED TO AN EXTERNAL GEAR PUMP: DETERMINATION OF TYPE A UNCERTAINTY	170
<i>Pedrielli Francesca, Carletti Eleonora, Brambilla Giovanni</i>	
EXPLORING CURRENT UNCERTAINTIES AND TOLERANCES IN ACOUSTICS MEASUREMENTS AND DATA	178
<i>Latour Jean-François</i>	
PROGRESS OF CALIBRATION METHODS FOR HIGH SOUND PRESSURE MICROPHONE	184
<i>Yang Jiali, He Longbiao, Zhu Haijiang, Niu Feng, Feng Xiujuan, Wang Min</i>	
REPRODUCIBILITY OF MODAL PARAMETERS USING DIFFERENT EXCITATION TYPES.....	191
<i>Hensel Eric, Knöfel Björn</i>	

REGULAR SESSION T01 RS04 [4] - INSTRUMENTATION FOR SOUND AND VIBRATION MEASUREMENTS AND ANALYSES

MEASURING THE WAVE SHAPE AND WAVE PROPAGATION SPEED OF TWO IMPACTING RODS OF ARBITRARY CROSS SECTION AND MATERIAL	199
<i>Burgert Jens, Seemann Wolfgang</i>	
IMPACT OF VIBRO-ISOLATION OF TECHNICAL EQUIPMENT ON STRUCTURE-BORNE NOISE IN LIVING AREAS	207
<i>Ziaran Stanislav, Hucko Branislav, Chlebo Ondrej, Tuma Jiri</i>	
CHARACTERIZATION OF A NONLINEAR SOUND ABSORBER AT LOW FREQUENCIES AND HIGH SOUND LEVELS.....	215
<i>Volpe Marion, Côte Renaud, Bellizzi Sergio</i>	
MEASUREMENT DEVICE FOR NEAR-BIT DYNAMIC PARAMETERS WHILE DRILLING	223
<i>Li Ning, Jia Hengtian, Teng Xueqing, Zhang Quan, Zhou Bo, Gao Wenkai</i>	

STRUCTURED SESSION T01 SS01 [17] - SOUND AND VIBRATION MEASUREMENTS AND ANALYSIS

INVESTIGATION ON THE INFLUENCE OF THE NON-METALLIC SENSOR BASE ON TEST ACCURACY OF VIBRATION ACCELERATION.....	229
<i>Zhang Yue, Zhou Pu, Zhen Zhen, Fu Dongliang, Zhang Yi, Wang Qiang</i>	
SPHERICAL MICROPHONE ARRAY DESIGN AND VALIDATION: DOUBLE-LAYER VERSUS SIMPLE-LAYER ARRAY	237
<i>Grandjean Pierre, Girin Clément, Gauthier Philippe-Aubert, Berry Alain</i>	

PERFORMANCE COMPARISON OF DECONVOLUTION METHODS FOR SOUND SOURCE LOCALIZATION	245
<i>Chen Lin, Xiao Youhong, Yang Tiejun</i>	
REFINEMENT AND IMPLEMENTATION OF A ROBUST DIRECTIONAL ROOM IMPULSE RESPONSE DENOISING PROCESS, INCLUDING APPLICATIONS TO HIGHLY VARIED MEASUREMENT DATABASES	252
<i>Massé Pierre, Carpentier Thibaut, Warusfel Olivier, Noisternig Markus</i>	
SOUND SOURCE LOCALIZATION BASED ON GMMS IN A NECK-BAND MICROPHONE ARRAY MODULE	260
<i>Park Kang-Ho, Kim Yi-Gyeong, Lee Sung Q, Kim Jeongmin, Kim Bohyun, Park Hyung-Mim</i>	
TECHNICAL CHALLENGES TO CALIBRATION OF DIGITAL-OUTPUT MEMS ACCELEROMETERS	268
<i>Wan-Sup Cheung</i>	
RESEARCH ON FALSE SOURCE ELIMINATION METHOD IN MULTI-SOURCE LOCALIZATION BASED ON TDOA	276
<i>Liu Haitao</i>	
TEST AND RESEARCH ON ELECTROMAGNETIC EXCITATION CHARACTERISTIC OF ASYNCHRONOUS MOTOR	284
<i>Feng Haijun, Zhang Yi, Fu Dongliang, Zhou Pu</i>	
LOW FREQUENCY AND INFRASOUND ANNOYANCE WITHIN HOMES AND WORKPLACES; EVALUATION USING VALUES IN DBG INSTEAD OF DBA	290
<i>Montano Walter, Gushiken Elena</i>	
EXPERIMENTAL EVALUATION OF THE SOUND TRANSMISSION LOSS OF PLANAR STRUCTURES EXCITED BY PLANE WAVES	297
<i>Parrinello Andrea, Ghiringhelli Gian Luca</i>	
INFLUENCE OF SLIDING SPEED ON ROUGHNESS NOISE	305
<i>Modeste Assemien, Alain Le Bot</i>	
ACTIVE CONTROL USING DYNAMIC-RATE SAMPLING	311
<i>Maguire Daniel, Lagö Thomas</i>	
APPLICATIONS OF MIMO DIGITAL ADAPTIVE CONTROL TO HIGH LEVEL ACOUSTIC TESTING	319
<i>Underwood Marcos A.</i>	
OPERATING DEFLECTION SHAPE ANALYSIS OF A REVERSIBLE VIBRATORY PLATE	327
<i>Potarowicz Adrian, Moghadam S. Mazdak H., Johansson Tomas, Håkansson Lars</i>	
EXPERIMENTAL STUDY ON THE INFLUENCE OF RUNNING PARAMETERS ON VIBRATION CHARACTERISTICS OF ROLLING BEARINGS	335
<i>Yan Zhong, Haijun Feng, Hongjun Sun, Zhen Lu</i>	
VIBRATION INDUCED FATIGUE LIFE ESTIMATION BASED ON NON-STATIONARY STOCHASTIC PROCESSES SEGMENTED TO PIECEWISE STATIONARY SEGMENTS	340
<i>Johansson Ebba, Dahlman Rikard, Andersson Magnus, Håkansson Lars</i>	
RESEARCH ON THE CONDITION CLUSTERING FOR UNDERWATER RADIATION NOISE EVALUATION OF DOUBLE-RIBBED CYLINDRICAL SHELL	348
<i>Ruibiao Li, Rongwu Xu</i>	

THEME AREA T02 - ACTIVE NOISE AND VIBRATION CONTROL-MECHATRONICS

REGULAR SESSION T02 RS01 [20] - ACTIVE CONTROL OF SOUND AND VIBRATION

PSYCHOACOUSTIC OPTIMIZATION OF A FEEDBACK CONTROLLER FOR ACTIVE NOISE CANCELLING HEADPHONES	356
<i>Rivera Benois Piero, Zölzer Udo</i>	
EXPERIMENTAL RESEARCH INTO ACTIVE CONTROL OF LOW-FREQUENCY LINE SPECTRAL VIBRATION OF BLADE PUMP	364
<i>Zhang Kun, Xi Wenbing, Shao Xiaolin, Li Pengzhou, Qin Yan</i>	
REFINEMENT ON EV INTERIOR BOOMING FROM ENHANCED EXTERIOR WARNING SOUND BY USING ACTIVE NOISE CONTROL TECHNOLOGY	372
<i>Yu Wenjie, Wang Lizhou, Ge Qiang, Zheng Sifa, Han Qiang, Zheng Haotian</i>	
EFFECTS OF SLOT TYPE ON ELECTROMAGNETIC EXCITATION AND VIBRATION OF ASYNCHRONOUS MOTOR	380
<i>Feng Hai Jun, Jin Guang Wen, Li Jia Tong, Wang Qiang</i>	

ACTIVE CONTROL OF PRESSURE PULSATION IN MARINE HYDRAULIC SYSTEM USING MULTIPLE SECONDARY SOURCES	386
<i>Jiayi Zhao, Lin He, Rongwu Xu, Feng Wang, Faxiang Huang</i>	
DIRECTIVITY CONTROL USING A STRUCTURAL ACTUATOR ARRAY	392
<i>Kournoutos Nikolaos, Cheer Jordan</i>	
THEORETICAL AND EXPERIMENTAL STUDIES OF H_{∞} CONTROL FOR VEHICLE SUSPENSION SYSTEMS WITH TIME DELAY	400
<i>Li Peilin, Fang Mingxia</i>	
ACTIVE CONTROL OF SOUND FOR INDIVIDUAL PREFERENCE OF ACCELERATION	408
<i>Murai Kenta, Ishimitsu Shunsuke</i>	
APPLICATION OF AN ADAPTIVE PIEZO-SHUNT ABSORBER FOR VIBRATION CONTROL ON A CANTILEVER BEAM	416
<i>Silva-Navarro Gerardo, Beltran-Carbajal Francisco, Albarran-Bravo Francisco, Gudiño-Alas Roberto A.</i>	
ACTIVE CONTROL OF NOISE IN VENTILATION DUCTS	423
<i>Paurobally Mohammad Roshun, Sassi Sadok, Renno Jamil</i>	
ADAPTIVE CONTROL AND EXPERIMENTAL VERIFICATION OF VERTICAL TAIL BUFFETING	431
<i>Liu Hao, Yang Zhichun</i>	
ACTIVE VIBRATION CONTROL USING OVER-DETERMINED NARROW-BAND FX-NEWTON ALGORITHM ON A RAFT MOUNTED IN A CYLINDRICAL SHELL	439
<i>Li Yan, Zhang Neng, Wang Ying-Chun, Yin Tian-Qi</i>	
GENERALIZED EXTENDED STATE OBSERVER BASED-CONTROL FOR ACTIVE SUPPRESSION OF FORCED VIBRATIONS IN A MULTI-ROTOR UNMANNED VEHICLE	447
<i>Yañez-Badillo Hugo, Beltran-Carbajal Francisco, Tapia-Olvera Ruben, Kuitche Maxime Alex Junior, Botez Ruxandra Mihaela</i>	
A NARROWBAND ACTIVE NOISE CONTROL SYSTEM WITH SIMULTANEOUS ONLINE SECONDARY- AND FEEDBACK-PATH MODELING USING ADAPTIVE IIR NOTCH FILTER	455
<i>Xiao Yegui, Bai Tao, Ma Yaping, Ma Liying, Khorasani K.</i>	
OPTIMAL FEEDFORWARD CONTROL OF A BEAM WITH AN ACTIVE ACOUSTIC BLACK HOLE TERMINATION	463
<i>Hook Kristian, Cheer Jordan, Daley Stephen</i>	
ATTITUDE CONTROL FOR AIR SPRING ISOLATION SYSTEM WITH ELECTROMAGNETIC ACTUATOR	471
<i>Shi Liang, Bu Wenjun, Xu Wei</i>	
DESIGN AND EVALUATION OF THE VIBRATION DAMPING CONTROLLER FOR A PUSH CART CONSIDERING THE BEHAVIOR OF AN UNGROUNDED WHEEL	478
<i>Tagami Masaharu, Suda Atsushi, Ioi Kiyoshi, Kosaka Manabu</i>	
ACTIVE NOISE CONTROL OF INTERIOR NOISE OF A HIGH-SPEED TRAIN CARRIAGE	486
<i>Zhao Yanju, Liu Shaoqing, Shuai Renzhong, Song Shike, Zhang Kuiwei</i>	
INVESTIGATION ON A NEW PASSIVE/ ACTIVE VIBRATION ISOLATOR	493
<i>Ren Mingke, Xie Xiling, Zhu Yueyue, Zhang Zhiyi</i>	
AN ADAPTIVE FEED-FORWARD VIBRATION CONTROL ALGORITHM FOR MULTIPLE PERIODIC DISTURBANCES OF UNKNOWN FREQUENCIES	501
<i>Ni Zhen, Zhou Kai, Huang Xiuchang, Hua Hongxing</i>	

REGULAR SESSION T02 RS02 [6] - ACTIVE STRUCTURAL ACOUSTIC CONTROL

EXPERIMENTAL VALIDATION OF PIEZOELECTRIC SHUNT DAMPING BY USING CURRENT CONVEYOR BASED INDUCTORS	509
<i>Qibo Mao, Weiwei Liu, Ge Li, Shizhuo Huang</i>	
REDUCTION OF COMPRESSOR NOISE BY THE ACTIVE CASING APPROACH	517
<i>Wrona Stanislaw, Mazur Krzysztof, Rzepecki Jaroslaw, Chraponska Anna, Pawelczyk Marek</i>	
ACTIVE STRUCTURAL ACOUSTIC CONTROL OF A FLAT PLATE USING AN EXPERIMENTALLY IDENTIFIED RADIATION RESISTANCE MATRIX	524
<i>Milton Joseph, Cheer Jordan, Daley Steve</i>	
ATTITUDE CONTROL OF THE DUAL LAYER AIR SPRING MOUNTING SYSTEM	532
<i>Wenjun Bu, Liang Shi, Wei Xu</i>	
ACTIVE CONTROL OF VEHICLE INTERIOR ROAD NOISE USING NFXLMS ALGORITHM WITH TWO LOUDSPEAKERS	538
<i>Lijun Zhang, Xiyu Zhang, Dejian Meng, Shuhan Zhang</i>	

OPTIMAL PLACEMENT OF SECONDARY SOURCES IN ACTIVE STRUCTURAL ACOUSTIC CONTROL OF BAFFLE USING SIMULATED ANNEALING ALGORITHM	546
<i>Sun Yunping, Sun Hongling, Wang Han, Zhang Wei, Yang Jun</i>	

REGULAR SESSION T02 RS03 [7] - SEMI-ACTIVE CONTROL

DESIGN ANALYSIS OF EDDY CURRENT BASED DAMPERS	554
<i>Gabbi Rajwinder Singh, Gabbi Ramandeep Kaur, Singh Vp</i>	
PIEZOELECTRIC ENERGY HARVESTING FROM LIQUID MOTION IN TUNABLE VIBRATION ABSORBER WITH LIQUID ELASTIC CHAMBER	562
<i>Guo Moshan, Yao Hongxiang, Yang Haoguang, Zheng Gangtie</i>	
MODELING OF AN ACOUSTIC ENERGY HARVESTER BASED ON THE DUAL-LAYERED MEMBRANE-TYPE METAMATERIALS	570
<i>Ding Jingjing, Xu Jiajie, Wang Xiaole, Ding Haoling, Huang Zhenyu</i>	
RESEARCH ON HYBRID TUNED VIBRATION ABSORBER AND ITS CONTROL PLAN	577
<i>Li Xiaoxiao, Sun Jichao, Gao Qiang</i>	
MODELING AND CONTROL OF FLYWHEEL MECHANICAL HYBRID POWERTRAIN FOR REAL WORLD CONDITIONS	581
<i>Ozkara Arda, Sendur Polat</i>	
APPLICATION OF DISTURBANCE OBSERVER BASED ALGORITHM TO IMPROVE VEHICLE RIDE	589
<i>Sendur Polat, Ugurlu Barkan</i>	
TRANSDUCERS-BASED ACOUSTIC LINERS FOR AERONAUTICS APPLICATIONS	597
<i>Abily Thibault, Regnard Josselin, Gabard Gwenael, Durand Stephane</i>	

STRUCTURED SESSION T02 SS01 - ACTUATORS AND SENSORS FOR ACTIVE CONTROL

THEORETICAL AND EXPERIMENTAL ANALYSIS OF A HIGH LEVEL ELECTROPNEUMATIC SOUND SOURCE	605
<i>Allard Ambre, Atalla Noureddine, Micheau Philippe</i>	
DYNAMIC CHARACTERIZATION OF MAGNETORHEOLOGICAL ELASTOMERS IN COMPRESSION MODE	612
<i>Vatandoost Hossein, Hemmatian Masoud, Sedaghati Ramin, Rakheja Subhash</i>	
ACTUATOR AIR-GAP DISPLACEMENT MEASURING BY MEANS OF RELUCTANCE NETWORK MODEL AND STATISTICAL METHOD	616
<i>Wang Yingchun, Yin Tianqi, Yan Li</i>	
SHAPE CONTROL OF COMPOSITE PANEL WITH PIEZOELECTRIC ACTUATORS USING MICROMECHANICAL MATERIAL MODEL	623
<i>Rhim Jung-Soo, Kim Ji-Hwan</i>	

VOLUME 2

EXPERIMENTAL DEMONSTRATION OF ACOUSTIC PLANE WAVE DESTRUCTIVE INTERFERENCE IN RECTANGULAR DUCT WITH A HARMONIC PNEUMATIC SOURCE	630
<i>Drant Julien, Micheau Philippe, Berry Alain</i>	
FULLY SYMMETRICAL SINGLE-SUSPENSION LOUDSPEAKER USING A HALBACH ARRAY	636
<i>Laurence Thomas, Lissek Hervé</i>	
ELECTROACOUSTIC RESONATORS: SYSTEM IDENTIFICATION AND STABILITY	641
<i>De Bono Emanuele, Collet Manuel, Karkar Sami, Matten Gaël, Lissek Hervé, Laurence Thomas</i>	
LOUDSPEAKER OPTIMISATION FOR ACTIVE CONTROL OF TROMBONE RADIATION	649
<i>Cavaillès Colas, Ayrault Christophe, Melon Manuel, Gilbert Joël, Gazengel Bruno</i>	

STRUCTURED SESSION T02 SS02 - ALGORITHMS FOR ACTIVE CONTROL

ACTIVE SIDEWALL PANELS WITH REMOTE MICROPHONES FOR AIRCRAFT INTERIOR NOISE REDUCTION	657
<i>Misol Malte</i>	

A COMPARISON OF USING PRESSURE AND PARTICLE VELOCITY ERROR SIGNALS FOR LOCAL ACTIVE CONTROL	665
<i>Xiao Tong, Qiu Xiaojun</i>	
ON THE DESIGN OF DYNAMIC ADAPTIVE EXPONENTIAL LINEAR-IN-THE-PARAMETERS NONLINEAR FILTERS FOR ACTIVE NOISE CONTROL	673
<i>Deb Trisrota, Ray Dwaipayana, George Nithin</i>	
SYNCHRONIZED SWITCH DAMPING ON INDUCTOR FOR NOISE-REDUCING CASING	681
<i>Pawelczyk Marek, Mazur Krzysztof, Rzepecki Jaroslaw, Wrona Stanislaw, Chraponska Anna</i>	
ON THE USE OF VIRTUAL SENSING FOR THE REAL-TIME DETECTION AND ACTIVE CONTROL OF A SCATTERED ACOUSTIC FIELD	689
<i>House Charlie, Cheer Jordan, Daley Steve</i>	
OPTIMAL VIBRATION ISOLATION SEMI-ACTIVE CONTROL ALGORITHM BASED ON FULL STATE FEEDBACK	697
<i>Cunsheng Zhao, Wei Pan</i>	
EFFECT OF INCREASING THE SIGNAL-TO-NOISE RATIO ON THE ACTIVE VIBRATION CONTROL OF THE JOURNAL BEARINGS	705
<i>Tuma Jiri, Pawlenka Miroslav, Mahdal Miroslav, Pavelka Václav, Žižan Stanislav</i>	
ACTIVE VIBRATION CONTROL USING A STROKE LIMITED INERTIAL ACTUATOR	713
<i>Dal Borgo Mattia, Ghandchi Tehrani Maryam, Elliott Stephen John</i>	
EXPERIMENT ON AN ADAPTIVE METHOD FOR TONAL VIBRATION SUPPRESSION	721
<i>Xie Xiling, Ren Mingke, Jing Bo, Zhang Zhiyi</i>	

STRUCTURED SESSION T02 SS03 - ACTIVE META-MATERIALS

TUNABILITY AND NON RECIPROCITY OF ELECTRICALLY CONTROLLED PIEZOELECTRIC METAMATERIALS	729
<i>Hladky-Hennion Anne-Christine, Croenne Charles, Vasseur Jérôme, Dubus Bertrand, Pham Thi Mai</i>	
NUMERICAL AND EXPERIMENTAL STUDY OF A HYBRID ELECTRO-ACOUSTIC NONLINEAR SOUND ABSORBER IN A RESONANT ROOM	735
<i>Bryk Pierre-Yvon, Bellizzi Sergio, Côte Renaud</i>	
WAVE-CONVERSION ACTIVE LINER BASED ON GENERALIZED SNELL-DESCARTES LAW	743
<i>Laurence Thomas, Lissek Hervé</i>	
ACOUSTIC BEAM STEERING BY MEANS OF THE ACTIVE ACOUSTIC METASURFACE WITH AN ARRAY OF PIEZOELECTRIC MEMBRANES AND LOCAL CONTROL OF ACOUSTIC IMPEDANCE	751
<i>Vaclavik Jan, Necasek Jakub, Koldovsky Zbynek, Mokry Pavel, Steiger Katerina</i>	

THEME AREA T03 - AEROACOUSTICS, THERMOACOUSTICS, COMBUSTION NOISE, AIRCRAFT NOISE AND VIBRATION

REGULAR SESSION T03 RS01 – AEROACOUSTICS

PREDICTION OF JET NOISE SPECTRA AT ARBITRARY ANGLES AND TEMPERATURE RATIOS BASED ON COLD JET MEASUREMENTS AT 90° DEGREES	756
<i>Musafir Ricardo E., Schor Fabio J., Avital Eldad J</i>	
ON COMBINED PROPELLER SYNCHRONIZATION AND EDGE SCATTERING FOR THE NOISE REDUCTION OF DISTRIBUTED PROPULSION SYSTEMS	764
<i>Roger Michel</i>	
AEROACOUSTIC DESIGN AND BROADBAND NOISE PREDICTIONS OF A FAN STAGE WITH SERRATED OUTLET GUIDE VANES	772
<i>Polacsek Cyril, Cader Adil, Barrier Raphael, De-Laborderie Hélène, Gea-Aguilera Fernando</i>	
MEASUREMENT OF TRAILING EDGE NOISE FROM A HEAVING AIRFOIL	780
<i>Zhou Teng, Sun Yuhao, Zhang Xin, Chen Wangqiao, Huang Xun</i>	
AEROACOUSTIC NUMERICAL CHARACTERIZATION OF PROPELLERS INTERACTION	788
<i>Bernardini Giovanni, Centracchio Francesco, Iemma Umberto, Pasquali Claudio, Poggi Caterina, Rossetti Monica, Serafini Jacopo</i>	
EXPERIMENTAL AND NUMERICAL RESEARCH ON THE FLOW-INDUCED NOISE OF GAS WATER HEATER	796
<i>Gao Keke, Zhang Su, Zhang Xiaolin, Gong Chun, Zhang Liang, Li Zhonghua</i>	

MODELING PRESSURE PULSATIONS FIELD IN A SCREW-CENTRIFUGAL PUMP	804
<i>Li Jiawen, Timushev Sergey, Klimenko Dmitry, Krivenko Aleksander</i>	
MODIFICATION OF NOISE SOURCES BY VIRTUE OF BLADE SWEEP IN LOW SPEED FAN	812
<i>Ghodake Dipali, Sanjose Marlène, Moreau Stéphane, Henner Manuel</i>	
EFFECT OF SOLID AND PERFORATED EXTENSION ON TRAILING EDGE NOISE OF AIRFOIL	820
<i>Ck Sumesh, Tj Sarvothama Jothi</i>	
STUDY OF THE EFFECT OF FLAP ANGLE ON THE DUAL-STREAM HOT JET-FLAP NOISE	828
<i>Bai Baohong, Chen Haixin, Li Xiaodong, Zhang Liwang, Xu Zhiyuan</i>	
FULL SCALE ACOUSTIC SOURCE IDENTIFICATION ON VEGA LAUNCH PAD AT LIFT-OFF	836
<i>Mortain Frédéric, Cléro Franck, Palmieri David</i>	
COMPRESSIBLE FLOW SIMULATION OF FLOW AND NOISE AROUND AN AXIAL-FLOW FAN REGARDING EFFECTS OF CASING SLITS	844
<i>Minowa Katsutake, Yokoyama Hiroshi, Orito Kohei, Iida Akiyoshi</i>	
NOISE ASSESSMENT OF MULTI-ROTOR FLYING VEHICLES	852
<i>Fattah Ryu, Zhang Xin, Huang Xun</i>	
A METHOD TO GENERATE THE SOURCE OF BUZZ-SAW NOISE GENERATED BY RANDOMLY STAGGERED ROTORS	859
<i>Tang Xiaolong, Li Xiaodong, Chen Chao, Tahir Tayyab</i>	
EXPERIMENTAL AND NUMERICAL INVESTIGATIONS OF VIBRATION DUE TO FLOW THROUGH AN ORIFICE	867
<i>Shravan Kottapalli, David Smeulders, Gunes Nakiboglu</i>	
ACOUSTIC ABSORPTION IN A SUBSONIC MEAN FLOW AT A SUDDEN CROSS SECTION AREA CHANGE	875
<i>Gaudron Renaud, Morgans Aimee S.</i>	
CONTROL OF FLOW AND SOUND OVER A CAVITY BY INTERMITTENTLY DRIVEN PLASMA ACTUATOR	883
<i>Otsuka Keisuke, Yokoyama Hiroshi, Otake Katsuya</i>	
AEROACOUSTIC MODELING OF AN AUTOMOTIVE ENGINE COOLING MODULE	891
<i>Coutty Bruno, Moreau Stéphane</i>	
DYNAMIC STOCHASTIC METAMODELS FOR NOISE SHIELDING ASSESSMENT	899
<i>Burghignoli Lorenzo, Rossetti Monica, Centracchio Francesco, Iemma Umberto</i>	
EXPERIMENTAL STUDY OF HYDROACOUSTICS OF FLEXIBLE TRAILING EDGE	907
<i>Morais Paulo, Silva Harolds, Cavalieri André</i>	
DESIGN AND COMMISSION OF A LOW SPEED ANECHOIC WIND TUNNEL AT HKUST	915
<i>Zhang Xin, Fattah Ryu, Yi Wei, Huang Xun</i>	
SIMULATIONS OF TRAPPED MODES IN AXISYMMETRIC DUCT WITH NON-POTENTIAL MEAN FLOW	923
<i>Benamar Mohamed Amine, Bentahar Mabrouk, Moreau Solène</i>	
MODIFICATION OF BROADBAND TRAILING EDGE NOISE THROUGH HAIRY COATING	931
<i>Zhou Peng, Zhong Siyang, Zhang Xin</i>	
THE STUDY OF DISCHARGE COEFFICIENT OF AEROSTATIC THRUST BEARINGS WITH INHERENT ORIFICES BASED ON FLUENT	939
<i>Zhang Jianbo, Jiao Chunxiao, Zou Donglin, Ta Na, Rao Zhushi</i>	

REGULAR SESSION T03 RS02 - AVIATION NOISE

REDESIGNING LANDING GEAR BRACES FOR AEROACOUSTICS	947
<i>Tam Ryan, Andrego Nathaniel, McCarthy Philip, Ekmekci Alis</i>	
NUMERICAL STUDY OF A SWIRL ATOMIZED SPRAY RESPONSE TO ACOUSTIC PERTURBATIONS	955
<i>Ghasemi Khourimia Alireza, Kok J. B. W.</i>	
NOISE PREDICTION OF A NEW GENERATION AEROSTAT	962
<i>Legriffon Ingrid</i>	
A MODEL TO STUDY SPONTANEOUS OSCILLATIONS IN A LEAN PREMIXED COMBUSTOR USING NON LINEAR ANALYSIS	969
<i>Navarro Arredondo Sara, Kok J. B. W.</i>	
PREDICTING AIRCRAFT NOISE WITH AZB 2.0 –A BEST PRACTICE MODEL BEING REVISED	977
<i>Bopst Juliane</i>	

A NEW ANALYTICAL MODEL FOR THE CHARACTERIZATION OF FRICTION INDUCED DISK BRAKE VIBRATION	983
<i>Vladimirov Michael, Dieckman Eric</i>	

STRUCTURED SESSION T03 SS01 - ACOUSTIC SIMULATION, TEST AND CONTROL IN SPACECRAFT

CHARACTERIZATION OF THE NOISE SHIELDING EFFECT FOR UAS USING AN IMPULSIVE REFERENCE SOUND SOURCE.....	989
<i>Gely Denis, Lebigot Patrick</i>	
VIRTUAL SHAKER TESTING: FROM CONCEPT TO APPLICATIONS FOR SPACECRAFT STRUCTURES	997
<i>Remedia Marcello, Aglietti Guglielmo, Cerini Corinna, Appolloni Matteo, Kiley Andrew</i>	
FLEXURAL WAVE CONCENTRATION EFFECT IN TAPERED RODS AND WEDGE-LIKE BEAMS WITH POWER-LAW THICKNESS.....	1005
<i>Zeng Pengyun, Zheng Ling, Li Yinong</i>	
SIMULATION ANALYSIS AND DESIGN SUGGESTION OF LARGE-SIZE RADIATION-HEATED THERMAL-ACOUSTIC TRAVELING WAVE TUBE.....	1013
<i>Wu Yao, Fang Guiqian, Shen Zhiqiang, Li Xinming, Zhang Jungang</i>	
ACCELERATING THE UNCERTAINTY PROPAGATION OF STRUCTURAL DYNAMICS SYSTEMS USING A SURROGATE-BASED METHOD.....	1021
<i>Jun Lu, Zhenfei Zhan, Yudong Fang, Cong Chen, Qingmiao Wang, Ling Zheng</i>	
THE INVESTIGATION OF SOUND FIELD UNIFORMITY FOR MULTISOURCE TRAVELING WAVE TUBE USING FEM ANALYSIS.....	1029
<i>Zheng Ling, Meng Fantong, Deng Jie, Yan Tingfei, Wu Yao</i>	
CONSTRUCTION AND APPLICATION OF A NEW ACOUSTIC FACILITY OF CHINA	1038
<i>Li Xinming, Fang Guiqian, Zhang Jungang, Zhang Wenbing</i>	
NONLINEAR VIBRATION ANALYSIS OF A CONTROL FIN WITH FREEPLAY NONLINEARITY	1046
<i>Xie Ke, Gu Yingsong, Chen Zhaolin, Zhang Guiwei, Shi Pengtao</i>	
NONLINEAR ELECTRO-MAGNETO-AEROELASTIC ENERGY HARVESTER MODELING WITH STALL AERODYNAMICS.....	1054
<i>Gu Yingsong, Xie Ke</i>	
NEW APPROACH TO AERODYNAMIC REDUCTION IN GROUND FLUTTER SIMULATION BASED ON GENERALIZED AERODYNAMICS.....	1060
<i>Zhang Guiwei, Yang Zhichun, Gu Yingsong</i>	

STRUCTURED SESSION T03 SS02 - COMPUTATIONAL AEROACOUSTICS

MODAL DECOMPOSITION TECHNIQUE OF SOUND FIELD IN DUCT USING COMPUTATIONAL EXPERIMENT	1067
<i>Gorodkova Natalia, Siner Aleksandr, Startseva Maria, Burdakov Ruslan</i>	
ON THE IMPORTANCE OF TEMPERATURE EFFECT IN A HEATED HIGH-SPEED JET FLOW FOR FAR-FIELD SOUND PROPAGATION.....	1070
<i>Gryazev Vasily, Markesteijn Anton, Karabasov Sergey</i>	
FORMATION OF SHOCK-LIKE STRUCTURES IN THE SOUND FIELD OF A MACH 3 JET	1078
<i>Pineau Pierre, Bogey Christophe</i>	
EBR SCHEMES ON UNSTRUCTURED MESHES FOR APPLIED AEROACOUSTICS PROBLEMS.....	1084
<i>Kozubskaya Tatiana, Abalakin Ilya, Bakhvalov Pavel</i>	
USING THE LINEARIZED NAVIER-STOKES EQUATIONS TO MODEL ACOUSTIC LINERS.....	1092
<i>Huang Jinlan, Svensson Elin, Jensen Mads Herring, Shaposhnikov Kirill</i>	
NUMERICAL AND EXPERIMENTAL RESEARCH OF THE CIRCUMFERENTIAL GROOVES CASING TREATMENT INFLUENCE ON PERFORMANCES OF THE FIRST HIGH LOADED COMPRESSOR STAGE.....	1100
<i>Zhdanov Vladislav, Mileschin Victor, Petrovichev Alexander</i>	
NUMERICAL STUDY OF THE BROADBAND NOISE FROM THE TURBULENCE-AIRFOIL INTERACTION.....	1108
<i>Wang Fang, Gao Junhui</i>	

A GLOBAL ERROR INDICATOR FOR HIGH-ORDER FINITE ELEMENT HELMHOLTZ PROBLEMS	1116
<i>Gwenael Gabard, Hadrien Bériot</i>	
EXPLICIT FILTER DESIGN FOR AEROACOUSTICS SIMULATIONS ON UNSTRUCTURED GRIDS USING THE Z-TRANSFORM	1124
<i>Najafiyazdi Mostafa, Mongeau Luc, Nadarajah Siva</i>	
LATTICE BOLTZMANN - MULTIPLE RELAXATION TIME METHOD WITH SELECTIVE VISCOSITY FILTER	1131
<i>Ait Oubahou Rayane, Song Wang, Chavez-Modena Miguel, Mongeau Luc</i>	

STRUCTURED SESSION T03 SS03 - COMBUSTION NOISE AND THERMOACOUSTICS

UNDERSTANDING THE ROUTE TO LOCK-IN PHENOMENON IN VORTEX SHEDDING COMBUSTORS	1139
<i>Britto Abraham, Mariappan Sathesh</i>	
EFFECTS OF STACK POSITION ON THERMOACOUSTIC HEAT PUMP IN A RECTANGULAR RESONATOR	1147
<i>Kishino Yusuke, Yokoyama Hiroshi, Omori Yasuaki, Nishikawara Masahito</i>	
UNSTEADY RANS SIMULATION ON THE EFFECT OF FILM COOLING ON ENTROPY NOISE GENERATION IN A TWO DIMENSIONAL STATOR CASCADE	1155
<i>Bach Thomas, Mahmoudi Yasser, Spence Stephen</i>	
AUTOIGNITION FLAMES TRANSFER MATRIX MODELING	1163
<i>Gant Francesco, Bothien Mirko Ruben</i>	
VIBRATION CHARACTERISTIC OF METALLIC THIN-WALLED STRUCTURES UNDER HIGH TEMPERATURE AND HIGH INTENSITY NOISE	1171
<i>Zhao Fengtong, Sha Yundong, Luan Xiaochi, Luo Li</i>	
STABILITY ANALYSIS AND FLASHBACK LIMITS FOR COMBUSTION SYSTEMS USING HYDROGEN BLENDED FUELS	1178
<i>Malamal Gopinathan Sreenath, Heckl Maria</i>	
THERMOACOUSTIC RESPONSE OF HEAT EXCHANGER TUBES IN FUTURE AERO-PROPULSION ENGINES	1186
<i>Surendran Aswathy, Boakes Charles, Yang Dong, Morgans Aimee</i>	
COMBUSTION NOISE FROM DIESEL ENGINE USING RAW PALM OIL AND ITS BIOFUEL	1194
<i>Selim Mohamed Y E, Ghannam Mamdouh T, Elfeky Soliman M S</i>	

STRUCTURED SESSION T03 SS04 - AIRCRAFT CABIN NOISE AND VIBRATION CONTROL

INTEGRAL COMPENSATION FOR DISTURBANCE REJECTION IN LONGITUDINAL FLIGHT CONTROL OF A FIXED-WING UNMANNED AERIAL SYSTEM UAS-S4	1202
<i>Yañez-Badillo Hugo, Botez Ruxandra Mihaela, Kuitche Maxime Alex Junior, Beltran-Carbajal Francisco, Tapiá-Olvera Ruben</i>	
FULL-SCALE CABIN NOISE FROM TURBULENT BOUNDARY LAYER EXCITATION, PART 1 : WALL-PRESSURE MEASUREMENT AND ANALYSIS	1210
<i>Prigent Simon Lucien, Salze Edouard, Jondeau Emmanuel, Leneveu Romain, Bailly Christophe</i>	
FULL-SCALE CABIN NOISE FROM TURBULENT BOUNDARY LAYER EXCITATION, PART 2: VIBRO-ACOUSTIC MODELLING AND TRANSMISSION	1218
<i>Leneveu Romain, Rissmann Martin, Alonso-Pinar Alberto, Salze Edouard</i>	
A PARAMETRIC STUDY ON WALL PRESSURE WAVENUMBER-SPECTRUM MODELS WITH APPLICATION TO AIRCRAFT FUSELAGE VIBRATION PREDICTION	1226
<i>Hu Nan, Callsen Sören</i>	
PREDICTION OF THE SPEECH TRANSMISSION QUALITY IN THE PRESENCE OF BACKGROUND NOISE USING THE RAY TRACING TECHNIQUE	1234
<i>Mejdi Abderrazak, Gardner Bryce, Musser Chad</i>	
AIRCRAFT PANEL CURVATURE INTERACTION ON ACOUSTIC INSERTION AND TRANSMISSION LOSS PERFORMANCES	1242
<i>Borello Gerard</i>	
AIRCRAFT SIDE WALL WITH IMPROVED LOW-FREQUENCY SOUND INSULATION USING A LINING PANEL WITH HELMHOLTZ RESONATORS	1250
<i>Hoppen Hannah, Langfeldt Felix, Gleine Wolfgang, Von Estorff Otto</i>	

COMPARISON OF THE RECEPTION PLATE METHOD AND THE INVERSE FORCE METHOD FOR ASSESSING THE POWER OF A DUMMY VIBRATORY SOURCE	1258
<i>Padois Thomas, Prenant Simon, Rolland Valentin, Robin Olivier, Chérif Raef, Atalla Noureddine, Etchessahar Manuel, Richard Klop, Laurier Chapleau Sébastien, Dupont Thomas, Doutres Olivier</i>	
USING TRANSFER PATH ANALYSIS METHODS FOR ASSESSING THE VELOCITY RESPONSE ON A PLATE GENERATED BY A DUMMY VIBRATORY SOURCE.	1266
<i>Simon Prenant, Valentin Rolland, Thomas Padois, Raef Cherif, Manuel Etchessahar, Richard Klop, Sébastien Laurier-Chapleau, Thomas Dupont, Olivier Doutres</i>	

STRUCTURED SESSION T03 SS05 - WIND TURBINE NOISE

NUMERICAL ASSESSMENT OF THE FACTORS CONTROLLING THE ACOUSTIC RESPONSE OF WIND TURBINE BLADES	1274
<i>Al-Maharma Ahmad Y., Sendur Polat</i>	
PROTECTION AGAINST NOISE FROM WIND TURBINES IN GERMANY	1282
<i>Bauerdorff Andrea</i>	
ASSESSMENT OF THE SOUND QUALITY OF WIND TURBINE NOISE REDUCTION MEASURES	1290
<i>Merino-Martinez Roberto, Pieren Reto, Snellen Mirjam, Simons Dick G.</i>	

STRUCTURED SESSION T03 SS06 - AIRCRAFT ENGINE NOISE

THE INFLUENCE OF THE COMBINED LINER DESIGN PARAMETERS ON TURBOFAN NOISE REDUCTION	1298
<i>Pochkin Iaroslav, Khaletskii Iurii</i>	

VOLUME 3

ANALYTICAL PREDICTION OF BOUNDARY LAYER INGESTION NOISE FOR AN INTEGRATED TURBOFAN	1304
<i>Staggat Martin, Moreau Antoine, Guérin Sébastien</i>	
OPTIMIZATION OF METASURFACES FOR THE DESIGN OF NOISE TRAPPING METADEVICES	1312
<i>Iemma Umberto, Palma Giorgio</i>	
TOWARD AN ADJOINT BASED AEROACOUSTIC OPTIMISATION FOR PROPELLER NOISE REDUCTION	1320
<i>Chelius Alain, Salah El Din Itham, Koch Régis</i>	

THEME AREA T04 - ENVIRONMENTAL AND COMMUNITY NOISE, SOUNDSCAPES

REGULAR SESSION T04 RS01 - COMMUNITY AND ENVIRONMENTAL NOISE

COMMUNITY RESPONSE TO ROAD TRAFFIC NOISE : A REVIEW OF SOCIAL SURVEYS IN AFRICA	1328
<i>Nzelengenge Tambiki Junior</i>	
NOISE MAPPING AND NOISE ACTION PLANNING IN GERMANY	1335
<i>Hintzsche Matthias</i>	
INVESTIGATION INTO ACOUSTIC ENVIRONMENT IN WAITING HALL OF XIAMEN NORTH RAILWAY STATION	1343
<i>Liu Peijie, Sun Haitao</i>	
ANALYSIS OF THE SUITABILITY OF IDENTIFICATION METHODS FOR THE CANDIDATES OF QUIET AREAS BASED ON GIS IN MEDIUM-SIZED CITIES IN SOUTHERN SPAIN	1348
<i>Jimenez Tamara, Cueto Jose Luis, Hernandez Ricardo, Fernandez Francisco</i>	
FOREVER YOUNG: IS AGE OF IMPORTANCE IN URBAN SOUNDSCAPE DESIGN?	1356
<i>Bockstael Annelies, Steele Daniel, Trudeau Christopher, Guastavino Catherine</i>	
INFRA-SOUND AND LOW FREQUENCY NOISE GUIDELINES: ANTIQUATED AND IRRELEVANT FOR PROTECTING POPULATIONS	1361
<i>Alves-Pereira Mariana, Krogh Carmen, Bakker Huub, Summers Rachel, Rapley Bruce</i>	

EVALUATION OF URBAN SOUND ENVIRONMENTS IN-SITU AND IN LABORATORY	1369
<i>Skoda Sabrina, Becker-Schweitzer Jörg, Kiene Jan Frederik</i>	
MULTIVARIATE ANALYSIS OF BRAIN ERPS ON SELECTIVE ATTENTION UNDER MEANINGFUL OF MEANINGLESS NOISE	1372
<i>Tamesue Takahiro</i>	
INFLUENCE OF STUDY SELECTION AND STUDY WEIGHTING ON THE DEDUCTION OF A COMMON EXPOSURE-EFFECT CURVE FOR AIRCRAFT NOISE ANNOYANCE	1379
<i>Guski Rainer</i>	
PERFORMANCE OF PARALLEL BARRIERS USING HELMHOLTZ RESONATOR	1387
<i>Wang Zhibo, Choy Yat Sze</i>	
ROBUSTNESS ANALYSIS OF NON-NEGATIVE MATRIX FACTORIZATION TECHNIQUES FOR THE ESTIMATION OF URBAN TRAFFIC SOUND LEVELS	1395
<i>Gloaguen Jean-Rémy, Lagrange Mathieu, Can Arnaud, Petiot Jean-François</i>	
NOISE FROM OUTDOOR MUSIC ACTIVITIES: SELECTED EXAMPLES OF REGULATIONS AND RECOMMENDATIONS	1403
<i>Perna Maxime, Padois Thomas, Doutres Olivier, Dumoulin Romain, Dupont Thomas</i>	
NOISE SURVEY PROGRAM TO REDUCE THE POTENTIAL IMPACT ON THE COMMUNITY SURROUNDING A LARGE OIL REFINERY	1411
<i>Gagnon Francois, Pearson Michel, Côté Geneviève, Mackenzie Roderick</i>	
EXPERIMENTAL STUDY OF NOISE BARRIERS	1418
<i>Tyurina Natalia, Shashurin Aleksander, Gogudze Marat</i>	

REGULAR SESSION T04 RS02 - NOISE IMPACT ASSESSMENT

ASSESSMENT OF THE PERCEPTUAL EFFECT OF RAILWAY NOISE REDUCTION TECHNOLOGY	1424
<i>Jiyoung Hong, Hyo-In Koh, Seungho Jang</i>	
PHYSIOLOGICAL RESPONSE BY CONSTRUCTION NOISE ACCORDING TO TEMPORAL CHARACTERISTICS	1427
<i>Lee Sungchan, Hwang Sungjoo</i>	
PERCEPTUAL RELEVANCE OF ACOUSTICAL PARAMETERS IN AIRCRAFT NOISE	1432
<i>Tardieu Julien, Magnen Cynthia, Gaillard Pascal, Le Roux Maxime</i>	
MENTAL REPRESENTATIONS EVOKED BY AIRCRAFT NOISE COMPONENTS	1440
<i>Magnen Cynthia, Tardieu Julien, Gaillard Pascal, Le Roux Maxime</i>	
ANALYSIS OF THE SUBJECTIVE PERCEPTION OF NOISE IN CLUJ-NAPOCA, ROMANIA	1448
<i>Popescu Diana Ioana, Popescu Andrei Dan</i>	
MASKING EFFECT OF MUSIC SOUND ON THE AIRCRAFT FLYOVER NOISE	1454
<i>Cai Jun, Nishuai Yu, Yining Yang, Xuanyue Xu</i>	
KEEPING NOISE AT BAY - THE CHALLENGE OF PLANNING A HELIPAD AT AN URBAN HOSPITAL	1459
<i>Chiu Yu-Ying Janice, Kan Kwok-Kong Jack, Tai Moon-Kwong Daniel, Chui Chi-Keung Edwin, Lau Kwok-Keung</i>	
STRUCTURAL VIBRATION INDUCED BY INDUSTRIAL LOW FREQUENCY AND INFRASOUND; IMPROVING NOISE ASSESSMENT BY A STATISTICAL PROCEDURE TO DETERMINE THE SPECIFIC SOUND LEVEL WITH A NEW CONCEPT OF OUTLIERS	1467
<i>Montano Walter, Gushiken Elena</i>	

REGULAR SESSION T04 RS03 - NOISE MODELLING AND MAPPING

TEMPORAL EVOLUTION OF THE NOISE LEVELS IN THE CITY OF VALDIVIA, CHILE	1475
<i>Rey-Gozalo Guillermo, Suarez Enrique, Arenas Jorge P., Astudillo-Montenegro Alexandra</i>	
MAPPING REALISTIC DRONE NOISE IN PRACTICAL SCENARIOS	1483
<i>Zhang Xin, Bian Haoyu, Fattah Ryu, Sun Yuhao</i>	
FIRST ASSESSMENT OF COMMUNITY NOISE FOR A SIMULATED SCENARIO OF NEW URBAN AIR TRAFFIC	1491
<i>Bauer Michael</i>	
NOISE IMPACT ASSESSMENT IN A LEGAL SURVEY OF CA-PRI ISLAND HELIPORT. COMPARISON BETWEEN PREDICTIVE MODELING AND INSTRUMENTAL ACOUSTIC ON SITE MAPPING., COMPARISON BETWEEN INSTRUMENTAL ACOUSTIC ON SITE MAPPING, AND PREDICTIVE MODELING	1499
<i>Papa Augusto</i>	

NOISE PREDICTION SIMULATION OF COMPLEX INSTALLATION FOR HIGH-POWER CO-GENERATION PLACED WITHIN MIXED OF INDUSTRIAL AND RESIDENTIAL AREA.	1507
<i>Amadasi Giovanni, Fontana Eugenio, Pedicchio Tommaso</i>	

STRUCTURED SESSION T04 SS01 - SOUNDSCAPE AURALIZATION

MULTICHANNEL CROSS-SYNTHESIS FOR VIRTUAL AND FREQUENCY-BALANCE MODIFICATION OF MICROPHONE ARRAY RECORDINGS	1513
<i>Olivier Valentin, Francois Proulx, Philippe-Aubert Gauthier, Pierre Grandjean, Alain Berry</i>	
SOUND SYNTHESIS OF AN ARBITRARILY MOVING SOURCE ABOVE FREQUENCY-DEPENDENT GROUND	1521
<i>Alkmin Mansour, De Ryck Laurent, Cuenca Jacques</i>	
THE ART AND SCIENCE OF SOUNDSCAPE AURALIZATION FOR HIGH DENSITY LOUDSPEAKER ARRAYS	1529
<i>Upthegrove Tanner, Nichols Charles, Roan Michael</i>	
ROOM ACOUSTICAL PARAMETERS AS INDICATORS OF SHORT-TERM ACOUSTIC COMFORT IN INNER YARDS	1536
<i>Taghipour Armin, Sievers Tessa, Eggenschwiler Kurt</i>	
LABORATORY MEASUREMENT OF THE DECTABILITY OF BACK-UP ALARMS : INFLUENCE OF THE PLAYBACK DEVICE	1544
<i>Parizet Etienne, Gauthier Philippe-Aubert, Grandjean Pierre, Valentin Olivier, Girin Clément, Guesmi Zouhair</i>	

STRUCTURED SESSION T04 SS02 - URBAN SOUNDSCAPES

SOUNDWALKING IN A TROPICAL CITY PARK: A PILOT STUDY IN SINGAPORE BOTANIC GARDENS	1549
<i>Li Heng, Lau Siu-Kit, Fern Genevieve Ow Lai, Xie Hui</i>	
EXPERIMENTAL VALIDATION OF A URBAN TRAFFIC NOISE ANNOYANCE MODEL	1557
<i>Misdariis Nicolas, Marignier Lucie, Dianoux Camille, Leiba Raphaël</i>	
NOISE ANNOYANCE RELATED TO THE CONSTRUCTION OF ROAD INFRASTRUCTURES: THE PRELIMINARY RESULTS OF A LARGE SOCIO-ACOUSTIC SURVEY	1565
<i>Pinsonnault-Skvarenina Alexis, Carrier Mathieu, Manolache Dana-Elena, Bockstael Annelies, Gagné Jean-Pierre, Leroux Tony</i>	
SOUNDS IN THE CITY: IMPROVING THE SOUNDSCAPE OF A PUBLIC SQUARE THROUGH SOUND ART	1574
<i>Steele Daniel, Legast Étienne, Trudeau Christopher, Valérian Fraisse, Guastavino Catherine</i>	
EXPERIMENTAL RESEARCH ON INFLUENCING FACTORS OF URBAN STREET TRAFFIC ACOUSTIC ANNOYANCE BASED ON VR EXPERIENCE	1582
<i>Guangyu Zhang, Yuan Zhang, Haochen Guo</i>	
TRANQUILLITY PERCEPTION IN RURAL LANDSCAPE PREFERENCE	1590
<i>Xinxin Ren, Yuqin Sun</i>	
MICROPHONES ON DRONES - PERSPECTIVES FOR SOUNDSCAPE	1598
<i>Sutin Alexander, Salloum Hady, Sedunov Nikolay, Sedunov Alexander, Merzhevskiy Aleksandr, Tsyuryupa Sergey, Francis Christopher</i>	

STRUCTURED SESSION T04 SS03 - ACTION PLANS IN URBAN AREAS

OPTIONS FOR CITIES TO REDUCE NOISE LEVELS WHILE PROMOTING GOOD QUALITY OF LIFE THROUGH EFFECTIVE MANAGEMENT OF NOISE AND SPATIAL PLANNING	1605
<i>Stoecklin Andreas, Saurer Tina, Bühlmann Erik</i>	
LOW-NOISE PAVEMENTS AS EFFECTIVE NOISE ABATEMENT MEASURE IN URBAN AREAS - A "NEW" TECHNOLOGY BECOMES A PROVEN STANDARD	1613
<i>Bühlmann Erik</i>	
POROUS PAVEMENT FOR REDUCED TYRE/ROAD NOISE AND IMPROVED AIR QUALITY – INITIAL RESULTS FROM A CASE STUDY	1621
<i>Vieira Tiago, Lundberg Joacim, Genell Anders, Sandberg Ulf, Blomqvist Göran, Gustafsson Mats, Janhäll Sara, Erlingsson Sigurdur</i>	

THE NOISE ACTION PLAN IN THE ATHENS INTERNATIONAL AIRPORT (A.I.A) «ELEFTHERIOS VENIZELOS» – EVALUATION OF RULES AND PROCEDURES REGARDING NOISE RELATING MEASURES AND RESTRICTIONS WITHIN A BALANCED APPROACH	1629
<i>Vogiatzis Konstantinos, Konstantinidis Aristeidis, Gerolymatoy Georgia, Dimitriou Dimitrios</i>	

THEME AREA T05 - PHYSICAL ACOUSTICS, ULTRASOUND AND WAVE PROPAGATION

REGULAR SESSION T05 RS01 - ULTRASOUND AND ULTRASONIC MEASUREMENTS TECHNIQUES AND SENSORS

EFFECTS OF HYGRO-THERMAL AGEING ON POLYMER COMPOSITES USING ACOUSTIC WAVE PROPAGATION TECHNIQUES.....	1637
<i>Bagale Nilesh, Bhat M R</i>	
ONE WAVE-LENGTH LONGITUDINAL VIBRATION MODE DIAGONAL SLIT COMPLEX VIBRATION CONVERTER FOR ULTRASONIC COMPLEX VIBRATION WELDING SYSTEM - 27 KHZ AND 40 KHZ COMPLEX VIBRATION WELDING SYSTEMS USING VARIOUS EXCHANGEABLE WELDING TIPS-.....	1644
<i>Tsujino Jiromaru</i>	
EXPERIMENTAL STUDY OF VELOCITY FIELD SYNTHESIS IN AN ADHESIVELY-BONDED JOINT.....	1652
<i>Micheau Philippe, Serey Valentin, Castaings Michel, Renier Mathieu, Masson Patrice, Quaegebeur Nicolas</i>	
CONTROL OF THE BICEPS ACTIVITY WITH THE SIMPLE ULTRASOUND PROBE	1660
<i>Krit Timofey, Asfandiyarov Shamil, Begicheva Mariya, Kamalov Yuly, Andreev Valery</i>	
HYDROPHONE SPATIAL AVERAGING CORRECTION FOR FIELD CHARACTERIZATION OF TRANSDUCERS WITH A CENTRAL HOLE BASED ON MULTI-GAUSSIAN BEAM MODEL	1668
<i>Xing Guangzhen, Qian Feiming, Yang Ping, Wang Min, He Longbiao, Feng Xiujuan</i>	
THE SOUND OF ULTRASOUND.....	1675
<i>Bader Nicki, Holstein Peter, Münch Hans-Joachim, Uziel Sebastian, Hutschenreuther Tino, Seitz Steffen</i>	

REGULAR SESSION T05 RS02 - PHYSICAL ACOUSTICS

ONE-DIMENSIONAL TUNABLE LINEAR BIDIRECTIONAL ACOUSTIC DIODES	1683
<i>Chen Weiqiu, Chen Yingjie, Huang Yang</i>	
EVALUATION OF THE BONDING QUALITY IN A METAL COMPOSITE STRUCTURE USING LAMB WAVES.....	1686
<i>Attar Latifa, Leduc Damien, Ech Cherif El Kettani Mounstf, Galy Jocelyne, Predoi Mihai Valentin, Pareige Pascal</i>	
PERFORMANCE ESTIMATION OF A LOUDSPEAKER-DRIVEN STANDING-WAVE THERMO- ACOUSTIC REFRIGERATOR.....	1694
<i>Elbeltagy Khaled, Ibrahim Abdelmaged, Abdel-Rahman Ehab</i>	
PIV INVESTIGATION OF THE FLOW PATTERNS AROUND PLATES WITH VARIOUS PLATE-END SHAPES IN OSCILLATING FLOWS	1701
<i>Ramadan Islam, Ibrahim Abdelmaged, Elbeltagy Khaled</i>	
RECONFIGURABLE ACOUSTIC LOGIC SWITCHES FOR BROADBAND BOOLEAN OPERATIONS BASED ON CODING ELEMENTS.....	1709
<i>Song Xinpei, Chen Tianning, Liang Qingxuan, Zhu Jian, He Yanbin</i>	
INVESTIGATING THE POTENTIAL OF ACOUSTIC RESONANCE TO ESTIMATE LEFT VENTRICULAR VOLUME.....	1717
<i>Dual Seraina Anne, Dreyfus Roland, Roman Cosmin Ioan, Wampler Richard, Meboldt Mirko, Schmid Daners Marianne</i>	
ON THE EFFICIENCY OF A MONOPOLE SOURCE AT NON-CONTINUUM CONDITIONS: REVISITING THE PULSATING SPHERE PROBLEM.....	1725
<i>Ben-Ami Yaron, Manela Avshalom</i>	
THE EXPERIMENTAL STUDY ON THE MULTI-EMITTER ACOUSTIC LEVITATION FOR PARTICLE MANIPULATION IN AIR.....	1733
<i>Jin Xueqing, Fan Mingming, Xie Yue, Peng Jianxin</i>	
AN ACOUSTIC MEASUREMENT METHOD TO ASSESS ACETABULAR IMPLANT STABILITY IN CEMENTLESS TOTAL HIP REPLACEMENT	1741
<i>Goossens Quentin, Pastrav Leonard, Roosen Jorg, Mulier Michiel, Desmet Wim, Vander Sloten Jos, Denis Kathleen</i>	

AURORAL CRACKLING SOUNDS AND SCHUMANN RESONANCES	1749
<i>Laine Unto K.</i>	
TUNABLE DIRAC CONES IN TWO-DIMENSIONAL ACOUSTIC METAMATERIALS WITH MATRYOSKA STRUCTURE	1757
<i>Chen Meng, Jiang Heng, Wang Yuren</i>	
ACOUSTIC VALLEY EDGE STATES IN A GRAPHENE-LIKE SYSTEM WITH SUB-WAVELENGTH RESONATOR	1763
<i>Jiang Heng, Chen Meng, Wang Yuren</i>	

STRUCTURED SESSION T05 SS01 - WAVE PROPAGATION IN COMPLEX MEDIA

OPTIMIZATION OF ACOUSTIC ABSORBERS WITH MICROSTRUCTURE: A MULTISCALE STUDY	1770
<i>Nikolai Gorbushin, Naili Salah, Nguyen Vu-Hieu</i>	
ON CONTINUUM MODELLING OF WAVE PROPAGATION IN HEXAGONAL LATTICES.	1773
<i>Rosi Giuseppe, Auffray Nicolas</i>	
WAVE DISPERSION IN FLUIDS SATURATING PERIODIC SCAFFOLDS; HOMOGENIZATION AND FLOQUET-BLOCH WAVE DECOMPOSITION	1777
<i>Rohan Eduard, Cimrman Robert</i>	
MEASUREMENT OF ACOUSTIC DISSIPATION IN POROUS MEDIUM WITH WET WALL	1785
<i>Ueda Yuki, Ogura Naoyuki</i>	
PROPAGATION OF VISCOELASTIC WAVES IN MOVING HALF-SPACE	1789
<i>Kumar Pankaj</i>	
MEMORY EFFECTS IN WAVE PROPAGATION	1794
<i>Amirsajjad Rezaei, Federica Mezzani, Antonio Carcaterra</i>	
CFD ANALYSIS AND EXPERIMENTAL MEASUREMENT OF ACOUSTIC WAVE PROPAGATION FOR LEAKAGE DETECTION IN PIPELINE	1801
<i>Abdullahi Mustapha, Oyadiji Olutunde</i>	
CONTACT PROBLEM OF AN ELASTIC BULK WAVE INTERACTING IMPERFECTLY WITH A RIGID BASE	1809
<i>Kumar Pankaj, Dasgupta Anirvan, Bhattacharyya Ranjan</i>	
FINITE ELEMENT MODELING OF THE REFLECTION OF AN ULTRASONIC WAVE ON THE BONE-IMPLANT INTERFACE	1815
<i>Yoann Heriveaux, Vu-Hieu Nguyen, Guillaume Haiat</i>	
IDENTIFYING STRESS BEHAVIORAL PATTERNS IN IMPACT PROBLEMS THROUGH Z-TRANSFORMS	1822
<i>Velo Ani P., Gazonas George A.</i>	

STRUCTURED SESSION T05 SS02 - NONLINEAR ACOUSTICS AND VIBRATIONS

THE 50TH ANNIVERSARY OF TRANSPORT THEORY IN CONDENSED MATTER PHYSICS	1826
<i>Gan Woon Siong</i>	
GAUGE INVARIANCE APPROACH TO ACOUSTIC MULTIPLE SCATTERING	1831
<i>Gan Woon Siong</i>	
EFFECTS OF SHORT PULSES HIGH INTENSITY FOCUSED ULTRASOUND: HISTOLOGICAL STUDY ON THE RABBIT BRAIN	1839
<i>Vykhodtseva Natalia, McDannold Nathan</i>	
DISCONTINUITY LOCALIZATION WITH ULTRASONIC LAMB WAVES USING BEAMFORMING AND CHAOTIC SEARCH PATHS	1847
<i>Baltazar Arturo, Fernandez-Ramirez Karla</i>	
A GENERAL, ANALYTICAL AND EXACT SOLUTION TO THE BURGERS EQUATION	1855
<i>Hedberg Claes</i>	
A DYNAMIC MODEL AND APPLICATION OF THE DOWNHOLE DRILLING SYSTEM WITH FLUID-STRUCTURE INTERACTION	1861
<i>Li Ning, Hong Difeng, Zhang Quan, Zhou Bo, Zhao Li, Gao Wenkai</i>	
INTERACTION OF ACOUSTIC AND EM WAVES IN NDE AND MEDICAL APPLICATIONS	1866
<i>Sutin Alexander, Salloum Hady</i>	

STRUCTURED SESSION T05 SS03 - SOUND PROPAGATION IN CURVILINEAR SPACETIME

GAUGE INVARIANCE APPROACH TO NONLINEAR ACOUSTICS IN CURVILINEAR SPACETIME	1874
<i>Gan Woon Siong</i>	
THEORETICAL AND EXPERIMENTAL INVESTIGATION OF ELASTIC WAVES PROPAGATION IN CURVED SPACE	1881
<i>Zhu Jian, Chen Tianning, Chen Chen, Song Xinpei, He Yanbin, Zhang Junzhe</i>	
SPACETIME-BENDING TRANSFORMATIONS IN AERACOUSTICS	1888
<i>Iemma Umberto, Palma Giorgio</i>	

STRUCTURED SESSION - T05 SS04 - DUCT ACOUSTICS

INVESTIGATION ON ACOUSTIC PERFORMANCE OF A WIRE SCREEN BOUNDED TO A SLIT RESONATOR	1895
<i>Chen Chao, Li Xiaodong, Xu Jun</i>	
IDENTIFICATION OF THE ACOUSTIC PARAMETERS FOR THE VARIABLE CROSS-SECTION ELEMENT. NUMERICAL AND ANALYTICAL METHODS COMPARISON	1903
<i>Mlynarczyk Przemyslaw</i>	
DEVELOPMENT OF A DEMODULATION METHOD FOR ACOUSTIC PROPAGATION IN DUCTS WITH UNKNOWN IMPEDANCE CONDITIONS FOR BOTH MODAL MAGNITUDE AND WALL IMPEDANCE ESTIMATE	1911
<i>Boucheron Romuald</i>	
BROADBAND FORBIDDEN TRANSMISSION BY MULTIPLE CPA-BASED DETUNED HELMHOLTZ RESONATORS	1919
<i>Guo Jingwen, Zhang Xin, Yi Fang</i>	
MODELLING OF NONLINEAR ACOUSTIC HARMONIC INTERACTION EFFECTS FOR PERFORATES	1927
<i>Boden Hans</i>	
A NEW METHOD TO GENERATE MODE WAVES IN DUCTS BY RIGID SPLITTERS	1935
<i>Chen Lingfeng, Wang Xiaoyu, Du Lin, Sun Xiaofeng</i>	
THE WORKING PRINCIPLE AND STRUCTURE DESIGN OF A WATER-PIPE PLATE SILENCER WITH AIR CAVITY	1943
<i>Luyang Sun, Hongling Sun, Jun Yang</i>	

STRUCTURED SESSION T05 SS05 - ACOUSTIC EMISSION

A SIMPLIFIED MODEL FOR SIMULATING STRUCTURAL AND ACOUSTIC RESPONSE OF ELECTRIC MOTORS	1951
<i>Ribeiro Martins Paulo Victor, Lenzi Arcanjo</i>	
THE LOCALIZATION METHOD OF DAMAGE SOURCE IN BOLTED JOINTS STRUCTURES BASED ON TWO ACOUSTIC EMISSION SENSORS	1959
<i>Tai Junfei, He Tian, Wang Xiaoran, Wang Hong</i>	
TRANSMISSION LOSS MECHANISM OF SIDE EXPORT MUFFLERS USING TRANSFER MATRIX METHOD	1965
<i>Zhang Liang, Gong Chun, Gao Keke, Li Zhonghua</i>	
STUDY OF THE OPENING, DAMAGE OR MALADJUSTMENT OF AN INDUSTRIAL VALVE THANKS TO LIVE ACOUSTIC EMISSION MEASUREMENTS GENERATED BY PASSING FLOWS	1972
<i>Rondeau Anthony, Cartier Florian, Lafargue Eric</i>	
ACOUSTIC EMISSION TECHNIQUE IN LOCATING KNEE OSTEOARTHRITIS	1979
<i>Khan Md. Tawhidul Islam, Hassan Md. Mehedi, Ide Suyu</i>	

THEME AREA T06 - INDUSTRIAL AND OCCUPATIONAL NOISE AND VIBRATION

REGULAR SESSION T06 RS01 - NOISE SOURCE IDENTIFICATION IN THE WORKPLACE

ULTRASONIC NOISE EXPOSURE AT WORKPLACES IN COMPANIES PRODUCING PACKAGING	1983
<i>Smagowska Bozena, Pleban Dariusz</i>	

VOLUME 4

A MEASUREMENT PROCEDURE TO DETERMINE THE OCCUPATIONAL EXPOSURE TO ULTRASONIC NOISE	1989
<i>Schöneweiß Robert, Kling Christoph, Ullisch-Nelken Christian, Wolff Andrea, Koch Christian</i>	
PANEL ACOUSTIC CONTRIBUTION ANALYSIS IN ENCLOSURE USING DOUBLE-LAYER PATCH NEARFIELD ACOUSTIC HOLOGRAPHY	1993
<i>Xiao Yue, Hu Dingyu</i>	
NOISE EXPOSURE AT WORKSTATIONS IN HOSPITALS	2001
<i>Smagowska Bozena, Radosz Jan, Pleban Dariusz</i>	

STRUCTURED SESSION T06 SS01 - HEARING PROTECTION

FIELD ATTENUATION OF HEARING PROTECTORS	2006
<i>Behar Alberto, Copelli Fran, Russo Frank</i>	
EARPLUG PERSONAL ATTENUATION RATING (PAR) IN NOISE-EXPOSED WORKERS: EVOLUTION OVER A FIVE WEEKS FOLLOW-UP	2009
<i>Martin Laurence, Negrini Alessia, Gaudreau Marc-André, Sgard Franck, Berbiche Djamal, Doutres Olivier</i>	
LABORATORY AND FIELD VALIDATION OF AN IN-EAR NOISE DOSIMETRY DEVICE	2017
<i>Nogarolli Marcos, Bonnet Fabien, Nélisse Hugues, Voix Jérémie</i>	
A PROTOTYPE INSERT-HEARING PROTECTOR TO MONITOR IN-EAR NOISE DOSE AND OTOACOUSTIC EMISSIONS.	2025
<i>Clavier Odile, Norris James, Servi Amelia, Smalt Christopher</i>	
AN IN-EAR NOISE DOSIMETRY METHOD THAT EXCLUDES THE SOUNDS GENERATED BY INDIVIDUALS WEARING EARPLUGS: PRELIMINARY FIELD STUDY	2032
<i>Bonnet Fabien, Nélisse Hugues, Nogarolli Marcos, Voix Jérémie</i>	
ASSESSMENT FEEDBACK OF INTELLIGENT EARPLUG	2040
<i>Hamery Pascal, Zimpfer Veronique, Hengy Sebastien, Nexer Gwenole</i>	
ASPECTS OF USING HEARING PROTECTION DEVICES IN THE PRESENCE OF IMPULSE NOISE	2044
<i>Mlynski Rafal, Kozlowski Emil</i>	
OCTAVE BAND IMPULSE PEAK INSERTION LOSS: A METHOD TO CHARACTERIZE HEARING PROTECTION DEVICES WHEN FIRING WITH SMALL ARMS	2050
<i>Sarray Sadreddine, Nakashima Ann, Dajani Hilmi R, Boucharde Martin, Lo David, Ghinet Sebastian</i>	
AN EARCANAL SIZING TOOL AT THE TIP OF OUR FINGER	2058
<i>Viallet Guilhem, Voix Jérémie</i>	
MEASUREMENT OF THE ACOUSTIC LEAK FOR THE DETERMINATION OF THE OPTIMAL EARPLUG TYPE	2066
<i>Zimpfer Véronique, Hamery Pascal, Blanck Geoffroy, Fux Thibaut, Andéol Guillaume</i>	
SELF-INSERTION LOSS LIMITS OF ACOUSTICAL TEST FIXTURES FOR HEARING PROTECTOR MEASUREMENTS	2076
<i>Fackler Cameron, Berger Elliott, Stergar Michael</i>	
DEVELOPMENT OF AN ENTIRE HUMAN HEAD FINITE ELEMENT MODEL BASED ON IN-VIVO MEDICAL IMAGES FOR INVESTIGATION OF SOUND TRANSMISSION	2084
<i>Xu Huiyang, Sgard Franck, Wagnac Eric, De Guise Jacques</i>	
A COUPLED FINITE ELEMENT/TRANSFER MATRIX METHOD TO SIMULATE THE INSERTION LOSS OF EARPLUGS IN AN ACOUSTIC TEST FIXTURE	2091
<i>Luan Yu, Sgard Franck, Benacchio Simon, Nélisse Hugues, Doutres Olivier</i>	
COMPARISON OF DIFFERENT EXCITATIONS TO ASSESS THE OBJECTIVE OCCLUSION EFFECT MEASURED ON HUMAN SUBJECTS	2099
<i>Saint-Gaudens Hugo, Nélisse Hugues, Sgard Franck, Laville Frédéric, Doutres Olivier</i>	

NUMERICAL INVESTIGATION OF THE FUNDAMENTAL LOW FREQUENCY MECHANISM OF THE OBJECTIVE OCCLUSION EFFECT: FOCUS ON THE EAR CANAL WALL VIBRATION	2107
<i>Carillo Kévin, Doutres Olivier, Sgard Franck</i>	
AN ARTIFICIAL EAR TO ASSESS OBJECTIVE INDICATORS RELATED TO THE ACOUSTICAL COMFORT DIMENSION OF EARPLUGS: COMPARISON WITH ATTENUATION AND OCCLUSION EFFECT MEASURED ON SUBJECT	2115
<i>Benacchio Simon, Poissenot-Arrigoni Bastien, Martin Laurence, Saint-Gaudens Hugo, Sgard Franck, Doutres Olivier</i>	
AN ARTIFICIAL EAR TO ASSESS OBJECTIVE INDICATORS RELATED TO THE ACOUSTICAL COMFORT DIMENSION OF EARPLUGS: VALIDATION OF A VIBRO ACOUSTIC MODEL FOR INSERTION LOSS AND OCCLUSION EFFECT ASSESSMENT	2123
<i>Poissenot-Arrigoni Bastien, Benacchio Simon, Doutres Olivier, Sgard Franck</i>	
IN SITU EVALUATION OF EARPLUGS COMFORT	2131
<i>Terroir Jonathan, Wild Pascal</i>	

STRUCTURED SESSION T06 SS02 - HAND-ARM AND WHOLE-BODY VIBRATION

THE EFFECT OF MEASUREMENT DURATION ON DAILY WHOLE-BODY VIBRATION EXPOSURE METRICS	2139
<i>Bekker Anriette, Purcell Etienne, Muiyser Jacques</i>	
WHOLE-BODY VIBRATION OF HEAVY MOBILE EQUIPMENT OPERATORS AT AN OPENCAST MINE	2148
<i>Bekker Anriette, Purcell Etienne, Muiyser Jacques</i>	
WHOLE-BODY VIBRATIONS EXPOSURE WHILE WALKING IN PLACE	2157
<i>Chadefaux Delphine, Bazzucchi Ilenia, Felici Francesco, Marchetti Enrico, Fattorini Luigi, Tarabini Marco</i>	
ACTIVE CONTROL BUCKING BAR TO REDUCE HAND-TRANSMITTED VIBRATION TO OPERATOR	2163
<i>Griffin Steven, Klein Alexander, Agarwal Naval, Kyono Trent</i>	
CHARACTERIZATION OF NAIL GUNS IMPACT VIBRATION	2171
<i>Marcotte Pierre, Gaudreau Marc-André, Laville Frédéric, Padois Thomas</i>	

STRUCTURED SESSION T06 SS03 - NOISE AND VIBRATION IN SMALL, MEDIUM AND LARGE INDUSTRIES

NUMERICAL ANALYSIS OF EFFECTS OF TIP CLEARANCE ON COMPRESSOR PERFORMANCE AND NOISE CHARACTERISTICS	2178
<i>Ding Sihui, Cao Yipeng, Liu Chen</i>	
ENVIRONMENTAL NOISE ANALYSIS AND CONTROL FOR LARGE DATA CENTERS	2185
<i>Evans Jack B., Himmel Chad N.</i>	
LARGE ENGINE EXHAUST NOISE IN REAL LIFE AND MEASUREMENT TECHNIQUES IN PRACTICE	2193
<i>Gao Zengxin, Saine Kari, Hynninen Antti, Tanntari Jukka</i>	
4-PORT MODEL (FSI) TRANSFER MATRIX EXTRACTION FROM FEM	2201
<i>Rodrigues Igor, Lopez Arteaga Ines, Nakiboglu Gunes</i>	

STRUCTURED SESSION T06 SS04 - ADVANCES IN MACHINERY NOISE AND VIBRATION CONTROL

SELF-EXCITED VIBRATION OF VALVE CAUSED BY HYDRODYNAMIC FORCE	2209
<i>Liang Xiangdong, Hao Xun</i>	
STABILITY CHARACTERISTICS OF COUPLING SYSTEM BETWEEN SPEED CONTROL SYSTEM AND PROPULSION SHAFTING TORSIONAL VIBRATION	2214
<i>Liu Zhen, Yuan Yunbo, Chen Yahui, Li Wanyou, Guo Yibin</i>	
DYNAMIC COUPLING CHARACTERISTICS BETWEEN TORSIONAL VIBRATION AND SPEED CONTROL OF DIESEL ENGINE PROPULSION SYSTEM	2222
<i>Yuan Yunbo, Liu Zhen, Wang Donghua, Li Wanyou, Guo Yibin</i>	
TURBO-GENERATOR FOUNDATION DYNAMIC STIFFNESS ANALYSIS	2229
<i>Bencat Jan, Lukac Michal, Tomko Michal</i>	

EXPERIMENTAL INVESTIGATION ON SPUR GEARS WITH NOVEL COATINGS AND SURFACE MICRO TEXTURING	2237
<i>Zippo Antonio, Pellicano Francesco, Iarriccio Giovanni, Barbieri Marco</i>	
EXPERIMENTAL ANALYSIS OF INNOVATIVE ACOUSTIC MATERIALS FOR ENGINE NOISE CONTROL IN VEHICLES	2245
<i>Siano Daniela, Viscardi Massimo, Panza Maria Antonietta, Molaro Alfonso, Lanzillo Sofia, Chimenti Mariano</i>	
IMPEDANCE METHOD FOR CALCULATING DYNAMIC PERFORMANCE OF FLUID POWER SYSTEMS	2253
<i>Rekadze Pavel, Rodionov Leonid, Safiullina Elina</i>	
VIBRATION TESTS ON AN AGRICULTURAL TRACTOR EQUIPPED WITH ADVANCED VIBRATION CONTROL SYSTEMS FOR DIFFERENT CONFIGURATIONS	2259
<i>Peretti Alessandro, Carletti Eleonora, Pedrielli Francesca, Griguolo Jacopo, Pompoli Francesco, Visentin Chiara, Marescottii Cristina, Santoni Andrea, Fausti Patrizio, Nataletti Pietro</i>	
VIBRATION ENERGY HARVESTING DAMPERS IN ALL-TERRAIN AMPHIBIAN VEHICLE	2267
<i>Nerubenko George, Gurevych Dmytriy, Kolomier Pavel</i>	
DESIGN AND EXPERIMENTAL EVALUATION OF A PASSIVE SUSPENSION SYSTEM FOR VIBRATION SUPPRESSION ON THE HANDLEBAR OF A TWO-WHEEL TRACTOR	2275
<i>Velazquez-Miranda Elsa, Silva-Navarro Gerardo, Bory-Reyes Juan, Garcia-Perez Oscar A.</i>	
A NEW CONCEPT OF VIBRATION PROTECTION SYSTEMS WITH “QUASI-ZERO” STIFFNESS AND A NEW CHALLENGE TO USE SUCH SYSTEMS	2283
<i>Lee Chang-Myung, Goverdovskiy Vladimir, Tolochko Boris, Antokhyn Eugene, Prokhorov Alexander, Larichkin Alexey</i>	

THEME AREA T07 - STRUCTURAL DYNAMICS AND NONLINEAR VIBRATION

REGULAR SESSION T07 RS01 - MODAL ANALYSIS

EXPERIMENTAL MODAL MEASUREMENT AND DYNAMICS ANALYSIS OF A 6-DOFS SERIES ROBOT.....	2291
<i>Guodong Shen, Junchuan Niu, Lili Tian</i>	
SIMULATION STUDY ON THE INFLUENCE OF SPRINGING ON LARGE SHIPS	2298
<i>Liu Bohan, Wu Guohui, Li Hong, Zang Riqiang, Zhang Dongxu</i>	
FINITE ELEMENT ANALYSIS OF THE OPEN CRACK INFLUENCE ON THE COMPRESSOR BLADE NATURAL FREQUENCIES	2305
<i>Kruts Vadym, Zinkovskii Anatoliy, Savchenko Kyrlyo, Onyshchenko Yevgeniia</i>	
NUMERICAL SIMULATION OF VIBRATION OF MULTILAYER GRADIENT PYRAMID LATTICE SANDWICH STRUCTURE.....	2311
<i>Sui Lei, Yang Lihong, Dong Yalun, Zi Fan, Li Xuyang</i>	
THE EFFECTS OF CORE RELATIVE DENSITY AND FACE PANEL THICKNESS ON VIBRATION OF HOURGLASS LATTICE SANDWICH STRUCTURE.....	2318
<i>Dong Yalun, Yang Lihong, Sui Lei, Zi Fan, Li Xuyang</i>	
NUMERICAL SIMULATION AND EXPERIMENTAL VALIDATION OF THE MODES OF A BLISK UNDER DIFFERENT BOUNDARY CONDITIONS.....	2325
<i>He Xiaodong, Liu Aolin, Hua Hongxing, Huang Xiuchang</i>	
EIGENFREQUENCY LOCI CROSSINGS, VEERINGS AND MODE SPLITTINGS OF OVERHANGED CANTILEVERS.....	2333
<i>Liu Yun, Zhang Yin</i>	
NON-INVASIVE MEASUREMENTS OF ULTRA- LIGHTWEIGHT COMPOSITE MATERIALS USING LASER DOPPLER VIBROMETRY SYSTEM.....	2338
<i>Scislo Lukasz, Guinchard Michael</i>	
WELDING REPAIR EFFECTS ON THE VIBRATION CHARACTERISTICS OF NUCLEAR REGULATOR PIPING SAFE END	2346
<i>Kuai Liao</i>	
SIDE EFFECTS OF USING COIL SPRINGS AS AN APPROXIMATION OF FREE BOUNDARY CONDITIONS IN MODAL ANALYSIS	2352
<i>Janota Miroslav</i>	
DAMAGE DETECTION IN STRUCTURES USING A SUBSTRUCTURING BASED MODEL UPDATING APPROACH	2360
<i>Modak Subodh V., Saxena Nikhil, Kundra T. K.</i>	

VIBRATION ANALYSIS OF ARBITRARY TRIANGULAR PLATE WITH ELASTICALLY RESTRAINED BOUNDARY CONDITIONS.....	2368
<i>Zhang Runze, Cao Yipeng, Li Liaoyuan</i>	
TRANSVERS VIBRATION ANALYSIS OF MARINE PROPULSION SHAFT UNDER VARIOUS BOUNDARY CONDITIONS AND PARTIAL SUPPORT FOUNDATION.....	2376
<i>Xu Deshui, Du Jingtao</i>	
ON THE TRAVELLING WAVE MOTIONS OF AXIALLY MOVING CONTINUA WITH TIME-VARYING SUPPORT.....	2384
<i>Lu Lei, Yang Xiao-Dong</i>	
LINEAR AND GEOMETRICALLY NON-LINEAR FREE AND FORCED VIBRATIONS OF RECTANGULAR PLATES RESTRAINED AT TWO OPPOSITE EDGES BY TWO DISTRIBUTIONS OF ROTATIONAL SPRINGS.....	2392
<i>Babahammou Ahmed, Benamar Rali</i>	
DESIGN AND SIMULATION OF THE NOVEL HSLD ISOLATOR.....	2400
<i>Fu Niu, Lingshuai Meng, Jin Wang, Xiangdong Cui, Wenjuan Wu, Jinggong Sun</i>	
<u>REGULAR SESSION T07 RS02 - VIBRATION AND CONTROL OF NONLINEAR MECHANICAL SYSTEMS</u>	
METHOD OF PREDICTION OF DYNAMIC STABILITY OF GAS-TURBINE ENGINE BLADE ASSEMBLIES FOR SUBSONIC FLUTTER	2405
<i>Kabannyk Serhii, Zinkovskii Anatoliy, Stel'Makh Anatoliy, Savchenko Kyrilo</i>	
FREQUENCIES OF A CANTILEVERED NANOBEAM WITH ARBITRARY BOUNDARY CONDITIONS INCLUDING SURFACE EFFECTS.....	2411
<i>Moutlana Malesela</i>	
NONLINEAR FORCED RESPONSE ANALYSIS OF BLADED DISKS USING A RELATIVE CYCLIC COMPONENT MODE SYNTHESIS APPROACH	2419
<i>Pourkiaee S. Mehrdad, Zucca Stefano</i>	
VIBRATION CHARACTERISTICS OF A BEAM BEARING HIGH ACCELERATIONS AND JERKS IN A TRIAXIAL CENTRIFUGE.....	2427
<i>Zhang Yahong, Yang Mei, Liu Gege, Chen Shenglai, Lu Wenchao, Zhang Xinong</i>	
NONLINEAR TORSIONAL VIBRATION ANALYSIS OF DIESEL ENGINE SSION SHAFT SYSTEM.....	2433
<i>Zhao Jing, Zhou Yuefa, Liu Haihan, Wang Donghua</i>	
NON-LINEAR VIBRATIONS NEAR RESONANCE OF LAMINATED COMPOSITE BEAMS	2438
<i>Ganesan Rajamohan, Kumar Pramod</i>	
STUDY ON DYNAMIC INDUCED SNAP-THROUGH OF BI-STABLE COMPOSITE LAMINATES UNDER MULTIPARAMETER ACTION	2446
<i>Wu Meiqi, Zhang Wei, Niu Yan, Bai Siriguleng</i>	
NONLINEAR DYNAMICS OF MULTILAYERED CIRCULAR MICROPLATE UNDER ELECTROSTATIC ACTUATION.....	2452
<i>Rajput Pranshu, Jaber Nizar, Ilyas Saad, Pandey Manoj, Younis Mohammad</i>	
FREE VIBRATION OF ASYMMETRIC BI-STABLE COMPOSITE RECTANGULAR PANEL CLAMPED AT CENTRE POINT	2460
<i>Liu Yaze, Zhang Wei, Ma Wensai</i>	
MULTI-PULSE ORBITS AND NONLINEAR DYNAMICS OF ECCENTRIC ROTATING COMPOSITE LAMINATED CIRCULAR CYLINDRICAL SHELL	2467
<i>Zheng Yan, Zhang Wei, Liu Tao, Ma Wensai</i>	
MULTI-PULSE CHAOTIC DYNAMICS OF CARBON FIBER REINFORCED POLYMER LAMINATED CYLINDRICAL SHELL UNDER NON-NORMAL BOUNDARY CONDITIONS WITH 1:2 INTERNAL RESONANCE.....	2475
<i>Ma Wensai, Zhang Wei, Liu Yaze, Zheng Yan</i>	
A DYNAMIC MODEL FOR CANTILEVER TYPE ELECTRET-BASED ENERGY HARVESTER	2482
<i>Yang Zhaoshu, Tang Lihua, Tao Kai, Aw Kean</i>	
ON NONLINEAR DYNAMICS OF VIBRATING COMPACTION PROCESS OF CONSTRUCTION MATERIALS.....	2490
<i>Debeleac Carmen, Nastac Silviu, Buraga Andrei</i>	
LOW VELOCITY IMPACT OF A RECOVERABLE MULTISTABLE MECHANICAL METAMATERIAL WITH NEGATIVE STIFFNESS ELEMENTS	2496
<i>Guoli Wang, Zhou Jinxiong, Jingrun Luo</i>	

NONLINEAR RESONANT RESPONSES OF CIRCULAR MESH ANTENNA WITH 1:3 INTERNAL RESONANCE	2503
<i>Liu Tao, Zhang Wei, Zheng Yan</i>	
ANALYSIS AND PREDICTION OF CHATTER STABILITY OF A MILLING PROCESS	2511
<i>Zhao Xianglong, Zhang Bo, Wang Meng, Wang Yinglong</i>	
FORCE TRANSMISSIBILITY AND VIBRATION POWER FLOW BETWEEN COUPLED LINEAR AND BILINEAR OSCILLATORS	2519
<i>Shi Baiyang, Yang Jian</i>	
NONLINEAR VIBRATION OF FLUID-CONVEYING PIEZOELECTRIC-LAYERED FUNCTIONALLY GRADED CYLINDRICAL SHELLS	2525
<i>Wang Dan, Bai Changqing, Zhang Hongyan</i>	
STOCHASTIC FREE VIBRATION OF FUNCTIONALLY GRADED PLATES UNDER MATERIAL UNCERTAINTY	2534
<i>Adhikari Balakrishna, Singh B. N.</i>	
TRANSIENT ANALYSIS OF FOUR-PARAMETER POWER LAW FUNCTIONALLY GRADED SHELL PANELS	2542
<i>Verma Kushan Prasad, Maiti Dipak Kumar</i>	
A HEURISTIC APPROACH TO MODEL NORMAL CONTACT VIBRATIONS INDUCED BY FRICTION OF RANDOMLY ROUGH SURFACES	2550
<i>Perret-Liaudet Joël, Ponthus Nicolas, Zouabi Chaïma, Scheibert Julien</i>	
DYNAMIC ANALYSIS OF THE SPUR GEAR SYSTEM WITH THE FRICTION	2555
<i>Park Chan Il</i>	
EFFECT OF VARIATION IN CONTACT FRICTION ON THE PERFORMANCE OF THE UNDER-PLATFORM DAMPERS.	2559
<i>Umer Muhammad, Botto Daniele, Zucca Stefano</i>	
STUDY OF A NOVEL TORSION QUASI-ZERO-STIFFNESS VIBRATION ISOLATOR USING MAGNETIC SPRING BASED ON MAXWELL NORMAL STRESS	2567
<i>Zhang Feng, Shao Shubao, Xu Minglong, Xie Shilin</i>	
STUDY ON ELDER FALLING PROTECTION CHARACTERISTICS OF INFLATABLE AIRBAGS AND RUBBER VIBRATION ISOLATION	2575
<i>Luan Zhanyu, Wang Zhi, Shi Dongyan</i>	
ON NONLINEAR CHARACTERIZATION OF THE ELASTOMERIC VIBRATION ISOLATORS FOR HVAC SYSTEMS	2583
<i>Nastac Silviu, Debeleac Carmen, Chilari Oleg</i>	

REGULAR SESSION T07 RS03 - STRUCTURAL ACOUSTICS AND VIBRATION

APPLICATION OF THE ADOMIAN MODIFIED DECOMPOSITION METHOD FOR A BEAM WITH A SINGLE SECTION DISCONTINUITY RESTING ON AN ELASTIC FOUNDATION	2591
<i>Adair Desmond, Ibrayev Askar, Kim Jong R., Jaeger Martin</i>	
VIBRATION OF LAYERED CONICAL SHELLS USING COLLOCATION WITH CHEBYSHEV POLYNOMIAL	2599
<i>Kodakkal Kannan Viswanathan, D. S. Sankar, M. D. Nurul Izyan</i>	
RESPONSE OF LADDER TIMOSHENKO BEAMS UNDER INERTIAL MOVING LOAD	2607
<i>Gong Yunxuan, Li Hongliang, Wang Yu</i>	
DYNAMIC STIFFNESS METHOD FOR BENDING VIBRATIONS OF PLATES BASED ON IMPROVED GORMAN'S SUPERPOSITION METHOD	2615
<i>Wei Zitian, Yin Xuwen, Wu Wenwei</i>	
FREE IN-PLANE VIBRATION ANALYSIS OF CLAMPED ELLIPTIC PLATES USING CONFORMAL MAPPING METHOD	2623
<i>Yuan Yunbo, Li Hongliang, Wang Donghua, Guo Yibin</i>	
IN-PLANE FREE VIBRATIONS OF CURVED TIMOSHENKO BEAMS WITH RAYLEIGH-RITZ METHOD	2628
<i>Ding Shudong, Wu Jinghui, Xie Longtao, Zhang Yangyang, Wu Rongxing, Wang Ji</i>	
NONLINEAR FREE VIBRATIONS OF SPINNING FUNCTIONALLY GRADED GRAPHENE REINFORCED CYLINDRICAL SHELLS	2635
<i>Dong Youheng, Zhao Shaoyu, Li Yinghui, Yang Jie</i>	
ON THE EFFECT OF DRIVING AMPLITUDE, FREQUENCY AND FREQUENCY-AMPLITUDE INTERACTION ON PIEZOELECTRIC GENERATED POWER FOR MFC UNIMORPH	2643
<i>Khazaei Majid, Rezaniakolaei Alireza, Rosendahl Lasse</i>	

A PROOF FOR LOOKING DIFFERENTLY INTO DAMPING MODELING IN PIEZOELECTRIC ENERGY HARVESTING SYSTEMS	2650
<i>Khazae Majid, Rezaniakolaei Alireza, Rosendahl Lasse</i>	
SPONTANEOUS BENDING AND VIBRATION OF LIQUID CRYSTAL ELASTOMER FILMS	2658
<i>Huo Yongzhong, Xu Yiwei, Zhang Yiqing, Zhang Yang</i>	
NONLINEAR FREE VIBRATIONS OF SPIDER WEB STRUCTURES	2663
<i>Yang Tianyu, Xu Simiao, Kaewunruen Sakdirat</i>	

VOLUME 5

VIBRATION ANALYSIS OF CABLE-HARNESSED PLATE STRUCTURES	2671
<i>Agrawal Pranav, Salehian Armaghan</i>	
ANALYSIS AND EXPERIMENTAL STUDY OF THE VIBRATION CHARACTERISTIC FOR A TENDON-DRIVEN CONTINUUM MANIPULATOR	2679
<i>Zhang Songyuan, Zhang Yifeng, Yao Hongxiang, Zheng Gangtie</i>	
APPLICATION OF THE WIENER SERIES TO THE FREQUENCY RESPONSE ESTIMATION OF A STRUCTURAL SYSTEM EXCITED THROUGH A BILINEAR DEVICE	2687
<i>Andrade Luis, Langley Robin, Butlin Tore, De Brett Matthew, Nielsen Ole</i>	
DESIGN AND EVALUATION OF ISOLATION OF LIGHTWEIGHT SHIPBOARD ELECTRONICS	2695
<i>Gjoreski Darko, Kayayan Kevork, Allaei Daryoush</i>	
INFLUENCE OF TEMPERATURE ON PERFORMANCE OF CUP VIBRATION ISOLATION MOUNTS	2703
<i>Rakowski Richard, Kayayan Kevork, Allaei Daryoush</i>	
PERFORMANCE EVALUATION OF THE FRAME-TYPE FLOATING-RAFT VIBRATION ISOLATION DEVICE FOR THE PUMP	2711
<i>Peng Liang</i>	
EXPERIMENTAL STUDY ON THE NONLINEAR VIBRATIONS OF A CIRCULAR CYLINDRICAL SHELLS: EFFECTS OF THERMAL GRADIENTS	2718
<i>Iarriccio Giovanni, Zippo Antonio, Barbieri Marco, Pellicano Francesco</i>	
VIBRATION AND SOUND RADIATION ANALYSIS OF COMPOSITE LAMINATED PLATES UNDER THERMAL ENVIRONMENT	2724
<i>Zhiyang Lei, Xiaojie Yan, Kai Zhou, Hao Wang</i>	
CALCULATING THE DYNAMIC RESPONSE OF RECTANGULAR THIN PLATE COUPLED WITH LUMPED MASSES BY ANALYTICAL NUMERICAL METHOD	2732
<i>Han Guangcai, Wu Renchao, Wu Yanhong, Wang Tianyu</i>	
WAVE VIBRATION ANALYSIS OF A CLASSICAL CANTILEVER BEAM WITH ELASTICALLY MOUNTED MASS AT ITS FREE END	2740
<i>Mei C</i>	
INVESTIGATION ON DYNAMIC BEHAVIOR OF A PERIODIC BEAM STRUCTURE CARRYING SPRING-MASS SYSTEM BY DYNAMIC STIFFNESS METHOD	2748
<i>Li Hui, Yin Xuwen, Wu Wenwei</i>	
OPTIMUM STIFFNESS TO ELIMINATE DIRECTIONAL COUPLING EFFECT BY MASS ECCENTRICITY OF A MASS-SPRING SYSTEM	2756
<i>Shin Gangsig, Song Ohseop</i>	
ANALYSIS OF THE POWER FLOW AND MODAL ENERGY DISTRIBUTION IN FIBER REINFORCED COMPOSITE BEAMS	2764
<i>Bachoo Richard, Bridge Jacqueline</i>	
PERFORMANCE COMPARISON OF TWO TYPES OF TWO-STAGE MOUNTING SYSTEM	2776
<i>Qiu Yuanran, Shi Liang, Hu Zechao</i>	
FREE AND FORCED VIBRATION ANALYSIS OF COMPOSITE LAMINATED PLATES	2784
<i>Zhu Chendi, Yang Jian</i>	
EXTENSION OF THE NON-LOCALLY REACTING MODEL BASED ON THE TRANSFER MATRIX METHOD TO CYLINDRICAL SOUND PACKAGES	2792
<i>Kesour Kamal, Alimonti Luca, Atalla Nouredine</i>	
OPTIMAL DESIGN OF NOISE INSULATION PANEL TO IMPROVE SOUND TRANSMISSION LOSS	2800
<i>Kim Hyun-Guk, Goo Seongyeol, Wang Semyung</i>	
DESIGN OF A FLEXIBLE DVA IN VIBRATION TRANSMISSION CONTROL OF A FLYWHEEL AT ITS FLAPPING MODE	2804
<i>Huang Xiuchang, Su Zhiwei, He Xiaodong, Liu Aolin, Hua Hongxing</i>	

BASIC DEVELOPMENT AND OPTIMIZATION OF INVERTED TYPE POWER GENERATOR BASED ON AUTO-PARAMETRIC RESONANCE FOR LOW FREQUENCY	2812
<i>Taniguchi Tomoyuki</i>	
A NUMERICAL AND EXPERIMENTAL STUDY OF VIBROACOUSTIC RESPONSES OF A PANEL EXCITED BY A TURBULENT BOUNDARY LAYER	2820
<i>Karimi Mahmoud</i>	
STATISTICAL ENERGY ANALYSIS AND DIFFUSE FIELD	2826
<i>A. Le Bot , H. Li , N. Totaro , L. Maxit</i>	
APPLICATION OF BAYESIAN REGULARIZATION CRITERION IN NEAR FIELD ACOUSTIC HOLOGRAPHY BASED ON INVERSE BOUNDARY ELEMENT METHOD	2832
<i>Xiao Youhong, Song Qingqing, Zhang Zixin</i>	
A NOVEL APPROACH FOR THE CHARACTERISATION OF STRUCTURAL UNCERTAINTIES IN SATELLITES: FROM THE VIBRATION SOURCE TO THE FINAL RESPONSE	2840
<i>De Lellis Salvatore, Stabile Alessandro, Aglietti Guglielmo S., Richardson Guy</i>	
OPERATIONAL TRANSFER PATH ANALYSIS OF A DOMESTIC REFRIGERATOR	2848
<i>Tutu Gurkan</i>	
EFFICIENT FINITE ELEMENT SIMULATIONS TO COMPUTE GEAR PUMP NOISE FROM VIBRATION EXPERIMENTAL MEASUREMENTS	2856
<i>Miccoli Giuseppe, Hamiche Karim</i>	
POWER FLOW ANALYSIS OF BEAM-PLATE COUPLED STRUCTURES BY FINITE ELEMENT METHOD	2864
<i>Niu Junchuan, Tang Youheng</i>	
ACOUSTIC INDECED VIBRATION RESEARCH OF DRYER IN STEAM GENERATOR	2870
<i>Ye Xianhui, Zhang Fengshou, Cai Fengchun, Zhang Wenzheng, Xiong Furui, Song Haiyang</i>	
NUMERICAL SIMULATION AND EXPERIMENT RESEARCH ON SINGLE PART OF AUTOMOTIVE	2877
<i>Liu Zhihong</i>	
A PIECEWISE CALCULATION SCHEME FOR THE MID-TO-HIGH FREQUENCY STRONG COUPLING MODELLING	2884
<i>Hu Zhongyu, Maxit Laurent, Cheng Li</i>	
FUNDAMENTAL FREQUENCY OF COMPOSITE PLATE WITH STAIRCASE INTERNAL- THICKNESS-TAPER	2892
<i>Arab Babak, Ganesan Rajamohan, Malaki Milad</i>	
NUMERICAL AND EXPERIMENTAL VIBRATION OF A SAND-WICH BEAM WITH A FUNCTIONALLY GRADED CORE	2900
<i>Ben Lassoued Mohamed Amin, Ross Annie, Michon Guilhem, Abbad Ahmed</i>	
FORMATION OF VIBRATION ATTENUATION IN PLATE BY INSERTING ACOUSTIC BLACK HOLE INDENTATIONS WITHOUT DAMPING LAYER TREATMENT	2906
<i>Bing Han, Hongli Ji, Jinhao Qiu, Li Cheng</i>	
RADIATIVE ENERGY TRANSFER MODEL FOR PRESTRESSED ORTHOTROPIC PLATE ON VISCO-ELASTIC FOUNDATION	2914
<i>Qiang Zhong, Haibo Chen, Le Bot Alain</i>	
NONLINEAR SLOSHING ANALYSIS BY USING CONCENTRATED MASS MODEL	2920
<i>Yoshitake Tatsuhiro, Ishikawa Satoshi, Kondou Takahiro, Matsuzaki Kenichiro</i>	
NUMERICAL STUDY ON THE PORE WATER PRESSURE DISTRIBUTION IN SEABED AROUND THE GROUND ACOUSTIC SENSOR IN SHALLOW WATER	2928
<i>Zang Riqiang, Li Hong, Cheng Shu, Bai Siyu, Liu Bohan</i>	
STUDY ON OPTIMIZING LOW FREQUENCY VIBRATION PARAMETERS OF UNDERWATER ARC PLATE	2936
<i>Shen Du</i>	
EXPERIMENTAL PERFORMANCE VERIFICATION AND HYSTERESIS LOOP OF HYDRAULIC TOP-BRACING	2942
<i>Bae Seung-Hoon, Kim Young-Joong, Kim Seonmin, Park Jinwoo, Koo Daehong, Koo Byeong-Cheol</i>	
LOW FREQUENCY VIBRATION CHARACTERISTICS OF A SUBMARINE PROPELLER- SHAFT-HULL SYSTEM	2950
<i>Feng Chen, Yong Chen, Kai Zhang, Houcai Geng, Faxiang Chen</i>	
LPV MODELING FOR FLUTTER BOUNDARY PREDICTION FROM TESTING DATA	2958
<i>Tang Wei, Cui Mao, Wang Yu</i>	
RESEARCH ON LOAD-BEARING CHARACTERISTICS OF MARINE DIAPHRAGM AIR SPRING	2965
<i>Yu-Qiang Cheng, Chang-Geng Shuai</i>	

REGULAR SESSION T07 RS04 - ROTORDYNAMICS

STUDY ON ROTOR DYNAMIC CHARACTERISTICS STIMULATED BY AIRFLOW IN LABYRINTH SEALS	2971
<i>Yan Zhong, Pu Zhou, Yi Zhang, Qiang Wang</i>	
NUMERICAL RESEARCH OF PRESSURE DISTRIBUTION IN WATER-LUBRICATED JOURNAL BEARING BASED ON LATTICE BOLTZMANN METHOD.....	2977
<i>Jiao Chunxiao, Zhang Jianbo, Ta Na, Rao Zhushi</i>	
RESEARCH ON THE EFFECT OF AFT-STERN BEARING OBLIQUELY BORING ON BEARING PERFORMANCE AND SHAFTING TRANSVERSE VIBRATION.....	2985
<i>Lei Junsong, Zhou Ruiping, Hao Chen, Hong Fan</i>	
VIBRATION ANALYSIS OF A ROTORDYNAMIC SYSTEM WITH NONLINEAR BEARING SUPPORTS	2992
<i>Dai Wei, Yang Jian</i>	
SIMULATION AND FEATURE EXTRACTION OF INTER-SHAFT BEARING FAULT IN ROTOR-BEARING-CASING SYSTEM.....	2999
<i>Yang Yizhou, Liu Chao, Jiang Dongxiang, Han Te</i>	
THE EFFECT OF CURVIC COUPLING JOINTS ON THE ROTORDYNAMIC CHARACTERISTICS OF GAS TURBINES WITH TIE-SHAFT	3007
<i>Simsek Ugur, Sendur Polat, Yasar Ali</i>	
AN ANALYTICAL INVESTIGATION ON STIFFNESS-ERROR PLANET PHASING OF EQUALLY SPACED PLANETARY GEAR.....	3015
<i>Chen Yahui, Yuan Yunbo, Sun Dan, Liu Zhen, Guo Yibin, Wang Donghua</i>	
CAMPBELL DIAGRAM AND MASS UNBALANCE RESPONSE OF A DRILLSTRING	3023
<i>Tran Quang-Thinh, Nguyen Khac-Long, Manin Lionel, Andrianoely Marie-Ange, Mahjoub Mohamed, Menand Stéphane, Dufour Régis</i>	
ROTOR DYNAMICS ANALYSIS ON THE FLYWHEEL MOTOR ROTOR SHAFT SYSTEM SUPPORTED BY ACTIVE MAGNETIC BEARINGS	3031
<i>Dai Xingjian, Xu Yang, Zhang Kai</i>	
BEARING GEOMETRIC IMPERFECTIONS EFFECTS ON THE RUB-IMPACT BEHAVIORS OF A ROTOR-BEARING SYSTEM.....	3037
<i>Tofighi Niaki Ebrahim, Asgharifard-Sharabiani Pouya, Ahmadian Hamid</i>	
DYNAMIC ANALYSIS OF RUB IN HIGH-SPEED ROTOR-STATOR CONTACT.....	3045
<i>Zhang Yi, Su Li</i>	
EFFECT OF FRICTION HEAT ON VIBRATION RESPONSES OF ROTOR IN REVERSE FULL ANNULAR RUB.....	3053
<i>Li Shunming, Wen Jing, Xu Kun</i>	
RESEARCH ON TRANSIENT TORSIONAL VIBRATION OF PROPULSION SHAFT WITH PARALLELING ENGINE UNDER TORQUE IMPACT	3061
<i>Chen Hao, Zhou Ruiping, Lei Junsong, Fan Hong, Xiao Nengqi</i>	
NONLINEAR DYNAMIC ANALYSIS OF ROTATING FGM BLADE SUBJECTED TO THE BLAST PULSE	3069
<i>Niu Yan, Zhang Wei, Wu Meiqi, Bai Siriguleng</i>	
RESEARCH ON CRITICAL SPEED AND DYNAMIC STABILITY OF CENTRIFUGE BASED ON ROTOR DYNAMICS.....	3077
<i>Chen Hongyong, Shen Zhanpeng, E Linzhongyang, Wang Dong, Li Shangming</i>	

REGULAR SESSION T07 RS05 - FATIGUE, FRACTURE AND JOINT INTERFACES

PRESERVING OUR INFRASTRUCTURE THROUGH STRUCTURAL HEALTH MONITORING.....	3085
<i>Thambiratnam David</i>	
ESTIMATE OF THE FATIGUE LIFE OF THE DRIVING-MOTOR SHAFT FROM TORSIONAL VIBRATION MEASUREMENT AND THE LINEAR DAMAGE SUMMATION LAW IN HYDROGEN RECIPROCATING COMPRESSOR.....	3093
<i>Liang Jin-Wei</i>	
A COUPLED APPROACH TO MODEL THE EFFECT OF WEAR ON THE DYNAMICS OF BLADED DISKS.....	3101
<i>Tamatam Lakshminarayana Reddy, Botto Daniele, Zucca Stefano</i>	
SHOCK PROPAGATION THROUGH A BOLTED JOINT STRUCTURE UNDER IMPACT LOADING	3109
<i>S. Somasundaram Deepak, Shojaeishahmirzadi Pouya, B. Trabia Mohamed, J. O'Toole Brendan</i>	

THE IMPACT OF BILGE PUMPS BEARING BUSH AND CRANKSHAFT JOURNAL CLEARANCE ON VIBRATION CHARACTERISTICS	3117
<i>Cunsheng Zhao, Jiangmin Xia</i>	
A TPA APPROACH ON STRESS MODELLING	3125
<i>Enblom Samuel, Varghese Sajan</i>	

REGULAR SESSION T07 RS06 - OPTIMAL DESIGN AND UNCERTAINTY QUANTIFICATION

COMPUTATIONAL ANALYSIS OF A MISTUNED BLADED-DISK USING A STOCHASTIC NONLINEAR REDUCED-ORDER MODEL	3133
<i>Capiez-Lernout Evangeline, Soize Christian</i>	
STRUCTURAL OPTIMIZATION OF SEA SUBSYSTEMS BY ARRANGEMENT OF DAMPING MATERIAL	3141
<i>Kuroda Katsuhiko</i>	
STUDY ON THE TIME-FREQUENCY RIDGE LINE EXTRACTION METHOD OF ROTATION FLUCTUATION SIGNAL RECOGNITION	3149
<i>Li Xianglian, Gong Siqi, Li Shunming</i>	
EXPERIMENTAL AND NUMERICAL STUDY ON ADHESIVE MULTI-CELL TUBES UNDER THREE-POINT BENDING	3157
<i>Wang Zong, Zheng Chaofan, Wei Qiang</i>	
TOPOLOGY OPTIMIZATION OF CONSTRAINED AND UNCONSTRAINED DAMPING LAYERS	3165
<i>Mansouri Deniz, Sendur Polat</i>	
HUMAN-INDUCED VIBRATION UNDER SINGLE AND MULTIPLE PEDESTRIAN WALKING	3173
<i>Muhammad Zandy, Reynolds Paul</i>	
TOPOLOGY OPTIMIZATION ON STRUCTURAL DYNAMIC RESPONSE UNDER HARMONIC ACCELERATION EXCITATIONS	3180
<i>He Fei, Liao Hongqiang, Guo Zhongze</i>	
ROBUST ESTIMATION OF WHEEL DIRECTION IN GROUND-STEERING SYSTEMS FOR AIRCRAFT	3188
<i>Dal Borgo Mattia, Elliott Stephen John, Ghandchi Tehrani Maryam, Stothers Ian M</i>	
OPTIMAL DESIGN OF BEAM SUPPORT FOR CONTROLLING REACTION FORCE DURING VIBRATION	3196
<i>Tian Rui, Wang Dong</i>	
UNCERTAINTY QUANTIFICATION IN NATURAL FREQUENCY OF LAMINATED COMPOSITES USING KRIGING BASED APPROACH	3204
<i>Lore Sambhaji, Singh B. N.</i>	

THEME AREA T08 - MATERIALS FOR NOISE AND VIBRATION CONTROL

STRUCTURED SESSION T08 SS01 - PASSIVE SOUND ABSORBING AND INSULATING MATERIALS

ACOUSTIC PROPERTIES AND OPTIMIZATION OF THREE-APERTURE MPPA PARALLEL WITH DIFFERENT DIVIDE CAVITIES	3212
<i>Li Wei, Ren Chao, Bao Jian, He Yansong, Li Yinong</i>	
EFFECT OF ELASTICITY AND STRUCTURAL RESONANCES ON THE ABSORPTION AND TRANSMISSION PROPERTIES OF MULTI-LAYER MICRO-PERFORATED PANELS	3220
<i>Maury Cedric, Bravo Teresa</i>	
OPTIMISED MICRO-PERFORATED PANELS FOR BROADBAND ABSORPTIVITY	3228
<i>Bravo Teresa, Maury Cedric</i>	
UTILIZATION OF THE PERFORATED PANEL RESONATOR WITH FLEXIBLE TUBE BUNDLES AND ITS DERIVATIVES TO FULFILL THE CONCEPTUAL DESIGN OF QUASI-FULL-BANDWIDTH SOUND ABSORBER	3236
<i>Lyu Yadong, Zhang Qian, Xie Hai, Sui Fusheng, Yang Jun, Cheng Xiaobin</i>	
WIDEBAND ACOUSTIC ABSORBER USING PARALLEL-ARRANGED PANEL WITH EXTENDED TUBES AND POROUS MATERIAL	3244
<i>Li Dengke, Jiang Zhongcheng, Ye Biao, Liu Xiaobo, Chen Shiwen</i>	

STRUCTURE DESIGN OF HONEYCOMB SANDWICH STRUCTURES WITH ADJUSTABLE ABSORPTION FREQUENCY	3251
<i>Xiang Zhang, Jinwu Wu</i>	
A LOW FREQUENCY HONEYCOMB SOUND ABSORBER	3256
<i>Chang Daoqing, Song Zhenan</i>	
ACOUSTIC PROPERTIES OF A HYBRID SOUND ABSORBER COMPOSED OF POLYURETHANE FOAMS AND HELMHOLTZ RESONATOR.....	3260
<i>Li Wei, Song Jun, Bao Jian, He Yansong, Li Yinong</i>	
IMPACT OF 3D PRINTED THIN WALL ON HELMHOLTZ RESONATOR ACOUSTIC RESPONSE: EXPERIMENTAL INVESTIGATIONS.....	3268
<i>Costa-Baptista Josué, Fotsing Edith Roland, Therriault Daniel, Ross Annie</i>	
ACOUSTIC METAMATERIAL DESIGN FOR LOW FREQUENCY SOUND ABSORPTION IN LINEAR AND NONLINEAR REGIMES	3276
<i>Brooke Daniel, Umnova Olga, Leclair Philippe, Dupont Thomas</i>	
EXPERIMENTAL STUDY OF 3D PRINTED SAMPLES ACOUSTIC PERFORMANCES	3284
<i>Rekadze Pavel, Rodionov Leonid, Safin Artur, Prokofiev Andrey</i>	
METHODS OF SYNTHESIS AND IN-SITU FILLING OF ACOUSTIC MATERIALS WITH NANOPOWDERS TO IMPROVE THE LOW FREQUENCY SOUND ABSORPTION	3292
<i>Lee Chang-Myung, Moldavskiy Dmitry, Goverdovskiy Vladimir, Bardakhanov Sergey, Xu Zhen-Hua, Chen Min, Wu Qi, Zobov Konstantin</i>	
ABSORBENT MATERIAL CONTAINING HOLES WITH DECREASING PROFILE TO IMPROVE SOUND ABSORPTION.....	3300
<i>Verdiere Kevin, Panneton Raymond</i>	
MICRO-MACRO ANALYSIS OF THE COMPRESSION OF POROUS MEDIA.....	3308
<i>Chevillotte Fabien, Rodenas Julia</i>	
SUSTAINABLE ACOUSTICAL FIBROUS MATERIAL OPTIMIZATION USING MICRO-MACRO MODEL FOR RANDOM HOLLOW FIBER STRUCTURES	3313
<i>Campeau Simon, Panneton Raymond, Elkoun Saïd</i>	
ACOUSTIC PROPERTY OF POROUS METALS BASED ON COMSOL SIMULATION AND ACOUSTIC MODELS	3321
<i>Zhang Bo, Zhao Xianglong, Wang Meng, Wang Yinglong</i>	
AIRFLOW RESISTIVITY CALCULATION OF COMPRESSED FIBROUS MATERIALS THROUGH INDIRECT DETERMINATION OF AN EQUIVALENT FIBER RADIUS	3329
<i>Pompili Francesco, Bonfiglio Paolo</i>	
THE MEASUREMENT OF ACOUSTIC ABSORPTION PROPERTIES OF BASALT FIBER.....	3337
<i>Niu Feng, Xu Huan, He Longbiao, Feng Xiujuan, Bai Ying, Wang Min, Zheng Yunshan</i>	
ROLE OF POROSITY ON NANOFIBROUS MEMBRANE SOUND ABSORPTION PROPERTIES.....	3342
<i>Ulrich Tomas, Arenas Jorge P.</i>	
ACOUSTIC THERMOSET OPEN-CELL MULTILAYER FOAMS PRODUCED BY A PARTICULATE LEACHING PROCESS	3350
<i>Butler Sabine, Fotsing Édith Roland, Ross Annie</i>	

VOLUME 6

VISUALIZING TRADE-OFFS TO IMPROVE MULTILAYER ACOUSTIC PACKAGE DESIGN	3358
<i>Pichon Hugues, Piollet Elsa, Ross Annie</i>	
ANALYSIS OF SOUND ABSORPTION CHARACTERISTICS OF DAMPING PLATE EMBEDDED WITH MULTI-SCALE CAVITIES.....	3366
<i>Liu Jiawei, Yu Dianlong, Wen Jihong</i>	
IMPROVING THE SOUND TRANSMISSION LOSS OF STRUCTURES USING DISTRIBUTED SMALL-SCALE RESONATORS	3372
<i>Droz Christophe, Robin Olivier, Ichchou Mohamed, Atalla Nouredine</i>	
PASSIVE CONTROL SOUND TRANSMISSION THROUGH DOUBLE-PLATE STRUCTURES BY USING MASS-SPRING-DAMPER SYSTEM	3380
<i>Qibo Mao, Shizhuo Huang, Ge Li</i>	
TOTAL ABSORPTION BY CRITICAL COUPLING FOR EDGES IN VISCO-ELASTIC PLATES.....	3388
<i>Long Yuzhu, Tang Shengyu, Bi Wenping, Yang Desen, Pagneux Vincent</i>	

STRUCTURED SESSION T08 SS02 - VIBRATION DAMPING MATERIALS

ON THE USE OF 3D PRINTED ARCHITECTED CORE IN SANDWICH STRUCTURE FOR VIBRATION CONTROL	3390
<i>Ahmed Abbad, Mohamed Amin Ben Lassoued, Ghuilhem Michon, Annie Ross</i>	
REFLECTION COEFFICIENTS OF ACOUSTIC BLACK HOLES WITH LOCAL THERMAL VARIATIONS.....	3398
<i>Raybaud Guillaume, Pelat Adrien, Ouisse Morvan, Gautier Francois</i>	
NOISE-REDUCTION AND WEAR-RESISTANT PROPERTIES OF PTFE-BASED COMPOSITE MATERIALS	3402
<i>Hu Xiaoyang, Yang Xue</i>	
OUT-OF-PLANE VIBRATIONS AND DAMPING ANALYSIS OF ETRUSCAN TUFF STONE MASONRY BLOCKS AND CEMENT MORTAR	3409
<i>Schiavi Alessandro, Prato Andrea, Mazzoleni Fabrizio</i>	
DAMPING CHARACTERISTICS OF COMPOSITE SLEEPERS AND BEARERS IN RAILWAY SWITCHES AND CROSSINGS	3417
<i>Kaewunruen Sakdirat, Lin Xie, Goto Keiichi</i>	
EFFECTS OF POLYTETRAFLUOROETHYLENE MICRO POWDER ON FRICTION NOISE OF MODIFIED FLUORORUBBER.....	3425
<i>Yang Xue, Hu Xiaoyang</i>	
SMACSONIC - AN EFFECTIVE NOISE AND VIBRATION MITIGATION MATERIAL	3432
<i>Mallet Laurent, Lamy Pierre, Allaei Daryoush</i>	
PERFORMANCE EVALUATION OF VEHICLE SUSPENSION SYSTEM FEATURING MAGNETORHEOLOGICAL DAMPERS WITH BYPASS HOLES	3440
<i>Oh Jong-Seok, Choi Seung-Bok</i>	
RESEARCH ON PROPERTIES OF POLYURETHANE ISOLATOR	3444
<i>Ly Zhiqiang, Yang Xue, Hu Xiaoyang</i>	
SHOCK RESPONSE AND ISOLATION IN TWO STAGE ANTI ANTIVIBRATORY MOUNTS	3449
<i>Ledezma-Ramirez Diego Francisco, Tapia-Gonzalez Pablo Ernesto</i>	

STRUCTURED SESSION T08 SS03 - ACOUSTIC METAMATERIAL AND PHONONIC CRYSTAL: FUNDAMENTALS & APPLICATIONS

THE PROPERTIES OF HEAT-CARRYING PHONON TRANSPORT IN NANOSCALE THERMOELECTRIC PHONONIC CRYSTALS BASED ON MONTE CARLO SIMULATIONS	3457
<i>Yan Zhizhong, Zheng Chengfeng</i>	
NEAR-PERFECT AND NEAR-BROADBAND SOUND ABSORPTION USING ACOUSTIC METASURFACE	3463
<i>Jeon Wonju, Ryoo Hyeonbin</i>	
HIGH-EFFICIENCY SOUND-ABSORBING METASURFACE AT LOW FREQUENCY.....	3466
<i>Zhu Xing-Feng, Lau Siu-Kit, Lu Zhenbo, Jeon Wonju</i>	
A GAUGE TRANSFORMATION THEORY FOR METAMATERIALS	3472
<i>Gan Woon Siong</i>	
IMPROVED SOUND TRANSMISSION LOSS OF GLASS WOOL WITH ACOUSTIC METAMATERIALS	3480
<i>Langfeldt Felix, Gleine Wolfgang</i>	
SOUND ABSORPTION ENHANCEMENT OF METAMATERIAL-BASED MICRO-PERFORATED PANELS WITH MASS-CANTILEVER RESONATORS	3488
<i>Ren Shuwei, Zeng Xiangyang, Wang Haitao, Lei Ye</i>	
SOFT MODES IN NONLINEAR COMPOSITES ON THE EDGE OF ELASTIC INSTABILITY	3495
<i>Galich Pavel I., Thomas Edwin L.</i>	
THERMO-VISCO-ACOUSTIC METAMATERIALS TO DAMP ACOUSTIC MODES IN A COMPLEX GEOMETRY	3502
<i>Tenon Charly Kone, Raymond Panneton, Thomas Dupont</i>	
REFLECTION FROM A NON-UNIFORM ACOUSTIC WAVEGUIDE WITH FITTED RIGID RINGS USING A TRANSFER FUNCTION METHOD.....	3510
<i>Karlos Angelis, Elliott Stephen J</i>	
TUNABLE BANDGAPS IN SOFT PHONONIC PLATES WITH SPRING-MASS-LIKE RESONATORS.....	3518
<i>Ronghao Bao, Weiqiu Chen, Yilan Huang</i>	

HIERARCHICAL METAMATERIAL WITH SIMULTANEOUSLY NEGATIVE MASS DENSITY AND YOUNG'S MODULUS	3524
<i>Lee Ki Yong, Jeon Wonju</i>	
BANDGAP CHARACTERISTICS OF PHONONIC CRYSTALS BY CONSIDERING FLUID CONVECTION	3528
<i>Oh Tae Seok, Jeon Wonju</i>	
MASS PRODUCTION APPLICABLE LOCALLY RESONANT METAMATERIALS FOR NVH APPLICATIONS	3531
<i>Yu Junmin, Nerse Can, Lee Giseok, Chang Kyoung-Jin, Wang Semyung</i>	
A TRANSFER MATRIX APPROACH FOR MODELING PERIODIC ACOUSTIC METAMATERIAL	3538
<i>Laly Zacharie, Atalla Noureddine, Panneton Raymond</i>	
ACOUSTIC METAMATERIAL SOUND-INSULATOR BY HELMHOLTZ RESONATORS COMBINED WITH THIN MEMBRANES	3546
<i>Yamamoto Takashi, Furusawa Hideki, Sakaguchi Hiroshi, Nomura Toshihiro</i>	
NUMERICAL OPTIMIZATION METHOD OF CONTINUOUSLY GRADED POROUS MATERIAL	3554
<i>Boulvert Jean, Cavalieri Théo, Romero-Garcia Vicente, Gabard Gwénaél, Fosting Edith-Roland, Ross Annie, Mardjono Jacky, Groby Jean-Philippe</i>	
DESIGNER BAND GAPS IN PHONONIC CRYSTALS VIA NONSYMMORPHIC SYMMETRY	3562
<i>Yau Yin Hang Justin, Galich Pavel I., Thomas Edwin L.</i>	
SOUND-ABSORBING METASURFACE IN DIFFUSE FIELD FOR LARGE AREA APPLICATIONS	3570
<i>Ryoo Hyeonbin, Kim Jiwan, Jeon Wonju</i>	
NON-RECIPROCAL WAVE TRANSMISSION IN 1D MECHANICAL METAMATERIALS	3573
<i>Yousefzadeh Behrooz, Daraio Chiara</i>	
ACOUSTIC PROPAGATION PROPERTIES OF AIR-FILLED PIPE WITH PERIODIC MEMBRANE-TYPE HELMHOLTZ RESONATORS	3579
<i>Dianlong Yu, Jiawei Liu, Jiangwei Liu, Zhenfang Zhang, Jihong Wen</i>	
THREE DIMENSIONAL ACOUSTIC CARPET CLOAK BASED ON AN ULTRATHIN METASURFACE	3584
<i>He Jin, Liang Qingxuan, Lv Peiyao, Jiang Zijie, Chen Tianning</i>	
COMBINATION OF RETRIEVAL METHODS TO PREDICT THE SCATTERING COEFFICIENTS OF PERIODIC 2D LOCALLY RESONANT METAMATERIALS	3591
<i>Roux Laetitia, Croenne Charles, Audoly Christian, Kessissoglou Nicole, Hladky Anne-Christine</i>	
RESPONSE VARIABILITY OF BROADBAND MULTI-FREQUENCY METASTRUCTURE FROM ADDITIVE MANUFACTURING	3599
<i>Fabro Adriano. T, Meng Han, Chronopoulos Dimitrios</i>	
OPTIMAL DEDIGN OF A RAINBOW METAMATERIAL	3607
<i>Meng Han, Chronopoulos Dimitrios, Fabro Adriano. T</i>	

STRUCTURED SESSION T08 SS04 - CHARACTERIZATION OF ACOUSTICAL MATERIALS

PRINCIPLES AT THE BASIS OF THE DENORMS ROUND ROBIN TEST ON THE LOW FREQUENCY SOUND ABSORPTION MEASUREMENTS IN REVERBERATION ROOMS AND IMPEDANCE TUBE	3615
<i>Scrosati Chiara, Roozen Bert, Piana Edoardo Alessio</i>	
ON THE NUMERICAL MODELLING OF REVERBERANT ROOMS, INCLUDING A COMPARISON WITH EXPERIMENTS	3623
<i>Roozen N. B., Piana Edoardo Alessio, Deckers Elke, Scrosati Chiara</i>	
MULTIOBJECTIVE MINIMISATION AND PARETO OPTIMAL SOLUTION FOR INVERSE ESTIMATION OF NON ACOUSTICAL PARAMETER OF POROUS MATERIALS	3631
<i>Garoum Mohammed, Laaroussi Najma, Bybi Abdelmajid, Rhachi Mohammed</i>	
THE DENORMS ROUND ROBIN TEST: MEASUREMENT PROCEDURE AND POST-PROCESSING OF TIME DATA	3639
<i>Piana Edoardo Alessio, Roozen Nicolaas Bernardus, Scrosati Chiara</i>	
MATERIAL PARAMETER IDENTIFICATION OF COUPLED RESONANT SYSTEMS USING IMPEDANCE TUBES	3647
<i>Cuenca Jacques, De Ryck Laurent, Goransson Peter, Lahivaara Timo</i>	
ON THE DIFFUSION OF THE SOUND FIELD IN A REVERBERATION ROOM	3655
<i>Scrosati Chiara, Depalma Michele, Scamoni Fabio, Granzotto Nicola</i>	

IMPEDANCE TUBE MEASUREMENTS ON THE DENORMS ROUND ROBIN TEST MATERIAL SAMPLES	3663
<i>Piana Edoardo Alessio, Roozen Nicolaas Bernardus, Scrosati Chiara</i>	
EVALUATION OF SOUND ABSORPTION: AN EXPERIMENTAL COMPARATIVE STUDY AMONG REVERBERATION ROOM, IMPEDANCE TUBE AND AIRFLOW RESISTIVITY-BASED MODELS	3671
<i>Schiavi Alessandro, Prato Andrea</i>	
ANALYSIS OF THE ACOUSTIC ABSORPTION OF FABRICS IN A DIFFUSE SOUND FIELD AND FOR NORMAL INCIDENCE	3679
<i>Di Bella Antonino, Granzotto Nicola, Ruggeri Paolo, Peron Fabio</i>	
SOUND ABSORPTION CHARACTERISTICS DETERMINED IN REVERBERATION ROOM, COMPARISONS BETWEEN CLASSICAL AND DIFFERENT MODERN, ECOLOGICAL MATERIALS	3687
<i>Zaharia Marta Cristina, Alexe Ioana Mihaela</i>	

THEME AREA T09 - AUDIOLOGY, PROSTHETICS, SPEECH SCIENCES, COMMUNICATION IN NOISE

REGULAR SESSION T09 RS01 - PSYCHOLOGICAL AND PHYSIOLOGICAL ACOUSTICS

ESTIMATES OF RIPPLED SPECTRUM RESOLUTION BASED ON VARIOUS MEASUREMENT PARADIGMS	3693
<i>Supin Alexander, Milekhina Olga, Nechaev Dmitry</i>	
UNSTEADINESS OF ARTICULATORY MOVEMENT IN NON-NATIVE CONSONANT CLUSTERS	3700
<i>Funatsu Seiya, Fujimoto Masako</i>	
SOUND QUALITY EVALUATION OF VEHICLES: EFFECT OF GLOBAL LOUDNESS EQUALIZATION ON SENSORY PROFILES	3706
<i>Abdelghani Benganem, Olivier Valentin, Philippe-Aubert Gauthier, Alain Berry</i>	
AUDITORY PROCESSING DISORDER IN CHILDREN: INTEREST OF A MULTIDISCIPLINARY ASSESSMENT	3714
<i>Rouillon Isabelle, De Lamaze Aude, Ribot Marlène, Elmir Razane, Parodi Marine, Denoyelle Françoise, Loundon Natalie</i>	
EFFECTS OF HELICOTREMA SIZE IN THE MOTIONS OF BASILAR MEMBRANE WITH CONSIDERATION OF FLUID-STRUCTURE INTERACTIONS	3721
<i>Park Youn-Young, Lee Dooho</i>	
COMPUTER-BASED AUDITORY TRAINING FOR SCHOOL-AGED POPULATION WITH AUDITORY PROCESSING DIFFICULTIES: DOES IT WORK?	3727
<i>Bigras Jacynthe, Lagacé Josée</i>	

STRUCTURED SESSION T09 SS01 - HEARING AIDS, COCHLEAR IMPLANTS AND OTHER HEARING TECHNOLOGIES

AUDITORY EXTERNALIZATION IN HEARING-IMPAIRED LISTENERS WITH REMOTE MICROPHONE SYSTEMS FOR HEARING AIDS	3732
<i>Grimaldi Vincent, Courtois Gilles, Estoppey Philippe, Georganti Eleftheria, Lissek Hervé</i>	
OBJECTIVE SOUND QUALITY ASSESSMENT OF HEARING AIDS BASED ON FRACTAL THEORY	3739
<i>Xiaomei Chen, Bo Zhong, Yingying Shang, Jingyan Yang</i>	
DIRECTIONAL SPEAKER ARRAYS FOR ELDER CARE FACILITIES - REDUCING NEARBY ANNOYANCE WHILE MAINTAINING QUALITY OF LIFE	3747
<i>Maguire Daniel, Lagö Thomas</i>	

STRUCTURED SESSION T09 SS02 - DEVELOPMENT OF SPEECH TESTS FOR CLINICAL AND AUDITORY FITNESS FOR DUTY EVALUATIONS

DEVELOPMENT OF AN AUDITORY FITNESS-FOR-DUTY STANDARD FOR MILITARY PERSONNEL..... 3753
Brungart Douglas S., Sheffield Benjamin M., Shub Daniel E.

DO DIFFERENT SPEECH-IN-NOISE TESTS LEAD TO SIMILAR OUTCOMES?..... 3761
Laroche Chantal, Morasse David, Boutarfa Leila, Giguère Christian, Lagacé Josée, Vaillancourt Véronique

DEVELOPMENT OF THE FRBIO SENTENCE TEST 3765
Bergeron François, Berland Aurore, Fitzpatrick Elisabeth M, Vincent Christophe, Giasson Annie, Leung Kam Kevin, Chafiq Walid, Fanouillère Thibault, Demers Dominique

A DICHOTIC DIGIT TEST COULD BE SENSITIVE TO SCREEN AND ASSESS AUDITORY PROCESSING DISORDER IN CANADIAN FRENCH-SPEAKING CHILDREN: RESULTS FROM A PILOT STUDY 3771
Juras Benoît, Pelletier Marie-Pier, Duval Jérémie, Darche Patricia, Fuente Adrian

A CANADIAN VERSION OF THE DIGIT TRIPLETS TEST..... 3775
Lagacé Josée, Giguère Christian, Kathy Pichora-Fuller

STRUCTURED SESSION T09 SS03 - INTEGRATING PERSONAL HEARING PROTECTORS IN SAFE WORKING ROUTINES: USE, COMMUNICATION AND ENVIRONMENTAL AWARENESS

PERSONAL HEARING PROTECTION FOR MILITARY OPERATIONAL USE: THE HUMAN FACTORS OF TACTICAL COMMUNICATION AND PROTECTION SYSTEMS..... 3779
Nakashima Ann

THE EFFECTS OF SIMULTANEOUS EXPOSURE TO NOISE AND PESTICIDES ON THE AUDITORY AND VESTIBULAR SYSTEMS OF ENDEMIC CONTROL WORKERS IN BRAZIL 3786
Alcarás Patricia, Zeigelboim Bianca, Corazza Maria Cristina, Marques Jair, Lüders Débora, Fuente Adrian, Lacerda Adriana

PUBLIC HEALTH PROGRAMS STRATEGIES FOR ACOUSTIC EDUCATION AND HEARING HEALTH PROMOTION TO STUDENTS IN SOUTHERN BRAZIL..... 3793
Allenstein Gondim Lys Maria, Mendes Marques Jair, Meinke Deanna, Hal Martin William, Bender Moreira De Lacerda Adriana, Lüders Débora

DETECTION AND REACTION THRESHOLDS FOR REVERSE ALARMS WITH PASSIVE AND LEVEL-DEPENDENT HEARING PROTECTION 3798
Vaillancourt Véronique, Laroche Chantal, Giguère Christian, Nélisse Hugues

THEME AREA T10 - SIGNAL PROCESSING AND NONLINEAR METHODS

REGULAR SESSION T10 RS01 - SIGNAL PROCESSING TECHNIQUES FOR ACOUSTIC ARRAY SYSTEMS AND INVERSE PROBLEMS

HYBRID WAVE SUPERPOSITION METHOD BASED ON THE SHAPE ESTIMATION OF VIBRATING OBJECTS..... 3805
Yang Chao, Wang Yansong, Guo Hui, Sun Pei, Liu Ningning, Shao Yuan

WAVELET TRANSFORM-BASED STRATEGY FOR IDENTIFYING IMPACT FORCE ON A COMPOSITE PANEL 3811
Kalhari Hamed, Halkon Ben, Makki Alamdari Mehrisadat

APPLICATION OF P-NORM REGULARISATION TECHNIQUES IN ESTIMATING THE INDOOR TYRE PASS-BY NOISE CONTRIBUTION WITH THE INVERSE METHOD..... 3819
Papaioannou Athanasios, Elliott Stephen, Cheer Jordan

APPLICATION OF NOISE SEPARATION BASED ON DOUBLE ARRAYS IN WIND TUNNEL TEST..... 3827
Zhou Hefeng, Zhao Yun, Zhou Zemin, Tian Zhangfu, Zeng Xinwu

SCATTERED SOUND FIELD SEPARATION BASED ON THE EQUIVALENT SOURCE METHOD..... 3835
Wang Ran, Wang Xiaolin, Yang Jun, Liu Jingwei, Feng Yuwei

DERIVATION OF AN ORTHOGONAL SET OF FUNCTIONS FOR HEMISPHERICAL MICROPHONE ARRAYS 3841
Dupont Samuel, Berry Alain, Melon Manuel

ACOUSTIC IMAGING USING DIFFERENT WEIGHTING FUNCTIONS WITH THE GENERALIZED CROSS CORRELATION BASED ON THE GENERALIZED MEAN	3849
<i>Padois Thomas, Doutres Olivier, Hugues Néllisse, Franck Sgard</i>	
ACOUSTICAL DIRECTION-OF-ARRIVAL ESTIMATION USING AN ARRAY OF MICROPHONES	3855
<i>Hudson Ralph E., Yao Kung, Taylor Charlese., Yu Kai, Hedley Richard</i>	
FAST INDEPENDENT VECTOR ANALYSIS USING NON-OVERLAPPING FREQUENCY SUBBANDS PARTITION AND POWER RATIO CORRELATION	3859
<i>Leng Yanhong, Zheng Chengshi, Zhang Fangjie, Li Xiaodong</i>	
SPARSE PLANE-WAVE DECOMPOSITION USING A PLANAR MICROPHONE ARRAY	3867
<i>Han Zerui, Wu Ming, Yang Jun</i>	
NEURAL NETWORK-BASED DIRECTION-OF-ARRIVAL ESTIMATION WITH CROSS CORRELATION FUNCTION	3875
<i>Mizumachi Mitsunori, Okita Koudai</i>	
LOCALIZATION OF SOUND SOURCE BY USING DELAY ESTIMATORS ON SIGNALS FROM MICROPHONE ARRAYS	3880
<i>Mahapatra C., Pal R. S. C., Mohanty A. R.</i>	

REGULAR SESSION T10 RS02 - FAULT DIAGNOSIS AND PROGNOSIS

BEARING FAULT DIAGNOSIS BASED ON DUAL- TREE COMPLEX WAVELET-MAXIMUM ENTROPY SPECTRUM ESTIMATION AND PROBABILISTIC NEURAL NETWORK	3888
<i>Jingbo Gai, Junxian Shen, Yifan Hu, Chengyang Sun</i>	
FAULT DETECTION IN ROLLING ELEMENT BEARINGS USING ADAPTIVE NOISE CANCELLATION AND VARIATIONAL MODE DECOMPOSITION	3896
<i>He Xiuzhi, Zhou Xiaoqin, Yu Wennian, Hou Yixuan, Mechefske Chris K.</i>	
FLYWHEEL BEARING FAULT MONITORING BASED ON CLUSTERING FUSION OF NORMAL OPERATING ACOUSTIC PARAMETER	3904
<i>Wang Hong, Tai Junfei, Liu Hongxing, He Tian, Qing Tao</i>	
HEURISTIC ALGORITHM FOR SOLVING MULTI-OPTIMA PROBLEM AND ITS APPLICATION IN STRUCTURAL DAMAGE IDENTIFICATION	3911
<i>Chen Diancheng, Li Yiyang</i>	
EXPERIMENTS AND ANALYSIS OF VIBRATION SIGNALS FROM A FAILED COMPONENT IN A HELICOPTER GEARBOX	3919
<i>S. Ashwin Aparna, C. Sujatha, D. Vijay Kumar, Ali Hamid, Bhattacharya S.</i>	
PSO-BASED ONLINE SEQUENTIAL EXTREME LEARNING MACHINE FOR CLASSIFICATION AND ENGINEERING APPLICATION	3927
<i>Zheng Longkui, Xiang Yang</i>	
MONITORING OF COMPRESSOR OPERATIONS – A MACHINE LEARNING APPROACH	3935
<i>Holstein Peter, Tschöpe Constanze, Kolbe Peter, Moeck Steffen, Duckhorn Frank, Hennecke Michael</i>	

REGULAR SESSION T10 RS03 - MACHINERY HEALTH MONITORING

ONLINE ALGEBRAIC ESTIMATION OF MODAL PARAMETERS AND EXCITATION FREQUENCY OF A VIBRATING SYSTEM	3943
<i>Beltran-Carbajal Francisco, Silva-Navarro Gerardo, Jimenez-Sanchez Adriana</i>	
EXACT IDENTIFYING OF THE VIBRATIONS FREQUENCY AT THE DISCRETE FOURIER TRANSFORMER	3951
<i>Zusman George</i>	
SIMULATION OF BENDING AND TORSION COUPLED VIBRATION OF CRACKED ROTOR	3955
<i>Liu Haihan, Li Hongliang, Zhao Jing, Guo Yibin</i>	
DEEP LEARNING APPROACH CONSIDERING IMBALANCED DATA FOR HEALTH CONDITION MONITORING IN WIND TURBINE	3962
<i>Han Te, Jiang Dongxiang</i>	
MACHINERY HEALTH MONITORING BASED ON THE SOUND THEY PRODUCE	3969
<i>Krit Timofey, Kolesnikov Nikita, Smirnov Alexey, Astashev Michael, Andreev Valery</i>	
DIAGNOSING OSTEOPOROSIS FROM TAPPING RESPONSES USING MACHINE LEARNING	3976
<i>Li Francis, Umnova Olga, Scanlan Jamie, Rakoczy Gyorgy, Lövey Nóra</i>	

VIBRATION-BASED METHODOLOGY FOR ONLINE HEALTH MONITORING OF ROTATING MACHINES	3984
<i>Siano Daniela, Panza Maria Antonietta</i>	
EXPERIMENTAL INVESTIGATION OF BEARINGS VIBRATION IN PRESENCE OF LOCALIZED SURFACE DEFECTS	3992
<i>Sassi Sadok, Aly Abdelrahman, Renno Jamil, Paurobally Mohammad Roshun</i>	
EARLY DETECTION OF BEARING DAMAGE IN ROTARY MACHINE CONDITION MONITORING USING ACOUSTIC EMISSION TECHNOLOGY	4000
<i>Li Desheng</i>	
THE INVESTIGATION OF ROTOR BLADES VIBRATION BEHAVIOR FOR COUNTER ROTATING FAN MODEL INVESTIGATIONS OF ROTOR BLADES VIBRATION BEHAVIOR FOR THE COBRA-2 COUNTER ROTATING FAN MODEL	4008
<i>Stepanov Alexander, Mileschin Victor, Fateev Victor</i>	
A NON-INTRUSIVE SPEECH QUALITY ASSESSMENT MODEL BASED ON DNN	4016
<i>Li Guoteng, Peng Renhua, Zheng Chengshi, Li Xiaodong</i>	
MANIFOLD LEARNING METHOD FOR IDENTIFICATION OF DYNAMIC PARAMETERS OF THIN-WALLED STRUCTURES UNDER THERMAL VIBRATION	4024
<i>Dong Longlei, Zhao Jianping</i>	
TOWARDS MACHINE FAULT DIAGNOSIS WITH ATTENTION	4032
<i>Seitz Steffen, Tetzlaff Ronald, Holstein Peter, Probst Christian, Müller Jens</i>	

VOLUME 7

REGULAR SESSION T10 RS04 - SIGNAL PROCESSING IN ACOUSTICS AND VIBRATION

PRACTICAL APPLICATION OF DIGITAL SIGNAL PROCESSING THEORY	4039
<i>Busch Todd</i>	
RESEARCH ON LOW STRESS FATIGUE CROPPING PROCESS PARAMETERS BASED ON ACOUSTIC EMISSION TECHNOLOGY	4047
<i>Li Jingxiang, Jin Dong, Zhao Shengdun, Hua Yi, Gao Jingzhou, Du Wei, Liu Bingkun</i>	
AN ALGORITHM FOR STRUCTURE DEFECT DETECTION BY SIMILARITY OF FREQUENCY RESPONSE	4055
<i>Yang Yunong, Ruan Zhuqing, Chen Lejia, Wang Qing</i>	
NONLINEAR FILTER FOR SOUND ENVIRONMENT BY CONSIDERING ADDITIVE PROPERTY OF ENERGY VARIABLE AND FUZZY OBSERVATION IN DECIBEL SCALE	4062
<i>Ikuta Akira, Orimoto Hisako</i>	
A NOISE SUPPRESSION METHOD BASED ON JOINT OBSERVATION OF BONE- AND AIR- CONDUCTED SPEECH SIGNALS BY USE OF AN EXTENSION TYPE UKF	4070
<i>Orimoto Hisako, Ikuta Akira</i>	
A BAYESIAN APPROACH FOR IDENTIFICATION OF FORCES CONTAINING TREND COMPONENTS	4078
<i>Li Qiaofeng, Lu Qiuhai</i>	
TRANSIENT FORCE ANALYSIS TECHNIQUE TO IDENTIFY TIME-VARYING LOADS AND DEFECTS ON PLATES	4086
<i>Aujoque Nicolas, Ross Annie</i>	
VIBRO-ACOUSTIC ANALYSIS TO DETECT STRUCTURAL DETERIORATION ON ROOF COVERING PLATES	4094
<i>Amadasi Giovanni, Chierigato Massimo</i>	
IDENTIFICATION OF NOISE SOURCE BASED ON PARTIAL COHERENCE ALGORITHM	4101
<i>Huang Chenzhe, Xiang Yang, Zhou Yang, Yao Jiachi</i>	

STRUCTURED SESSION T10 SS01 - COMPRESSIVE SENSING AND SPARSE SIGNAL RECONSTRUCTION

ARRANGEMENT OF ARRAY SENSORS FOR SOUND SOURCE IDENTIFICATION WITH COMPRESSIVE SENSING	4109
<i>Lee Jeung-Hoon, Kim Yong-Hyun, Shin Yun-Ho</i>	

COMPARISON OF INTERPOLATION METHODS FOR GRIDLESS SOUND FIELD DECOMPOSITION BASED ON RECIPROCITY GAP FUNCTIONAL	4117
<i>Yuhta Takida, Shoichi Koyama, Natsuki Ueno, Hiroshi Saruwatari</i>	
CORRELATED SOURCES LOCALIZATION WITH SPARSE AND LOW RANK REGULARIZATION	4125
<i>Xiong Wenmeng, Chardon Gilles, Picheral José, Marcos Sylvie, Ollivier François</i>	
SENSOR LOCATION ANALYSIS OF THE COMPRESSED SENSING METHOD FOR DUCT MODE DETECTION	4132
<i>Hou Fatao, Chen Jin, Dong Guangming</i>	

THEME AREA T11 - ROOM AND BUILDING ACOUSTICS

REGULAR SESSION T11 RS01 - BUILDING ACOUSTICS

ACOUSTIC SCREENS EFFECT ON THE ACOUSTIC PROPERTIES OF OPEN PLAN OFFICES – A CASE STUDY BASED ON COMPUTATIONAL RESEARCH	4140
<i>Mikulski Witold</i>	
WIND-INDUCED NOISE OF SLOTTED AND PERFORATED ARCHITECTURAL PANELS	4148
<i>Andrego Nathaniel, Tam Ryan, McMarthy Philip, Ekmekci Alis</i>	
AN ACOUSTICAL STUDY OF KBYS RADIO STUDIOS	4156
<i>Li Zhuang, Thibodeaux Chad</i>	
DIFFUSENESS QUANTIFICATION OF A REVERBERATION CHAMBER AND UNCERTAINTY WITH FINE-RESOLUTION MEASUREMENTS	4164
<i>Zhang Shuying, Lee Joonhee</i>	
ACOUSTIC INFLUENCE OF SEAT ATTRIBUTES ON THE SEAT DIP EFFECT IN MUSIC HALLS	4171
<i>Yitian Liao, Hequn Min</i>	

REGULAR SESSION T11 RS02 - HUMAN RESPONSE TO NOISE AND VIBRATION IN BUILT ENVIRONMENTS

NEGATIVE EFFECTS OF DENTAL EQUIPMENT NOISE ON DENTAL PROFESSIONALS' HEALTH QUALITY	4179
<i>Ma Kuen Wai, Wong Hai Ming, Mak Cheuk Ming</i>	
STABILITY OF SPEECH INTELLIGIBILITY ACROSS DIFFERENT NOISE ENVIRONMENTS	4187
<i>Yoho Sarah, Thiede Nicole, Borrie Stephanie</i>	
EFFECTS OF THE ACOUSTICAL WORK ENVIRONMENT ON READING PERFORMANCE IN EMPLOYEES: A LABORATORY STUDY ON THE EVALUATION OF A READING TASK	4191
<i>Sukowski Helga</i>	
IMPACT OF ACOUSTIC ENVIRONMENT ON WORK IN OPEN-PLAN OFFICES ACROSS JOB CHARACTERISTICS	4199
<i>Lee Pyoung Jik, Park Sang Hee, Lee Byung Kwon</i>	
ACOUSTIC PERFORMANCE OF GREEN BUILDINGS: A POST-OCCUPANCY EVALUATION	4207
<i>Bajraktari Egzon, Mahn Jeffrey, Mueller-Trapet Markus</i>	
SUBJECTIVE RESPONSES ON LOW-FREQUENCY RUBBER BALL IMPACT SOUND CONSIDERING NOISE SENSITIVITY AND OPINIONS ON NEIGHBOURS	4215
<i>Ryu Jongkwan, Jeong Ho Jeong</i>	
ACOUSTIC QUALITY OF AUDITORIA: RELATIONSHIP BETWEEN ACOUSTICAL ENERGY PARAMETERS AND SUBJECTIVE PERCEPTION	4222
<i>Elena Corti, Elisabetta Gozio, Vezzoli Marika, Piana Edoardo Alessio, Lamberto Tronchin</i>	
THE CORRELATION BETWEEN HEARING COMFORT AND CONVERSATION DISTANCE IN THE LIVING SPACE OF THE ELDERLY	4230
<i>Yutong Liu, Yao Fu</i>	
THE CORRELATION BETWEEN AUDITORY COMFORT AND SPATIAL SCALE OF “TV WATCHING” BEHAVIOR OF ELDERLY PEOPLE	4238
<i>Zou Yun, Fu Yao, Hu Yue</i>	

STRUCTURED SESSION T11 SS01 - ROOM ACOUSTICS DESIGN: FROM MODELING, TO VR AND FINAL PROJECT

A PRELIMINARY STUDY OF THE SPEECH CLARITY OF THE HIGH-SPEED RAILWAY WAITING HALL-AN EXAMPLE OF CHENG DU RAILWAY STATION.....	4246
<i>Sun Haitao, Liu Peijie</i>	
INTELLIGENT PREDICTION SOFTWARE FOR ROOM ACOUSTICS AND PSYCHOACOUSTICS USING NEURAL NETWORK.....	4251
<i>Chin Cheng, Saju Sajin, Kwee Tiaw Joo, Yang Wei, Ji Xi</i>	
THE EFFECT OF REPRODUCTION MODE ON THE LOCATION OF NOISE SOURCES FOR THE ELDERLY	4258
<i>Zhao Lei, Peng Jianxin</i>	
SUBJECTIVE EVALUATION OF DIFFERENCES IN CONCERT HALL SHAPE USING A MULTISOURCE ORCHESTRA ANECHOIC RECORDINGS AURALIZED IN 3D COMPUTER MODELS.....	4263
<i>Klosak Andrzej, Piotrowski Krzysztof, Gade Anders</i>	

STRUCTURED SESSION T11 SS02 - CLASSROOM ACOUSTICS

A STUDY OF STUDENTS SPEECH INTELLIGIBILITY FOR ENHANCING TEACHING AND LEARNING ACTIVITIES IN CLASSROOMS	4270
<i>Da Yang, Cheuk Ming Mak</i>	
ACOUSTIC CONDITIONS IN OCCUPIED CLASSROOMS.....	4278
<i>Wang Lily, Smith Kieren</i>	
FROM MEASUREMENTS, THROUGH COMPUTER MODELLING, DESIGN AND CONSTRUCTION, BACK TO MEASUREMENTS: ACOUSTICAL MODERNIZATION OF 800 PUPILS PRIMARY SCHOOL IN WARSAW, POLAND	4284
<i>Klosak Andrzej</i>	

STRUCTURED SESSION T11 SS03 - MEASUREMENT AND PREDICTION OF SOUND INSULATION

MOBILITY BASED MEASUREMENT OF THE AIRBORNE SOUND INSULATION R AT LOW FREQUENCIES	4291
<i>Roozen N. B., Leclère Quentin, Urbán Daniel</i>	
SOUND TRANSMISSION LOSS OF CROSS-LAMINATED TIMBER WALLS: COMPARISON BETWEEN MEASUREMENTS CARRIED OUT IN TRANSMISSION SUITES AND POINT MOBILITY MEASUREMENTS	4299
<i>Piana Edoardo Alessio, Granzotto Nicola, Di Bella Antonino, Speranza Alice</i>	
FLANKING TRANSMISSION IN CLT BUILDING ELEMENTS: EFFECT OF MOUNTING CONDITIONS ON SOUND REDUCTION INDEX.....	4307
<i>Di Bella Antonino, Granzotto Nicola, Barbaresi Luca, Di Nocco Francesca, Morandi Federica, Speranza Alice</i>	
ANALYSIS OF THE ACOUSTIC CHARACTERISTICS OF CROSS-LAMINATED TIMBER PANELS USING A WAVE AND FINITE ELEMENT METHOD.....	4315
<i>Yang Yi, Kingan Michael, Mace Brian</i>	
ESTIMATING THE RESONANT TRANSMISSION LOSS TO CALCULATE THE APPARENT SOUND TRANSMISSION CLASS RATING OF LIGHTWEIGHT BUILDING CONSTRUCTIONS	4323
<i>Mahn Jeffrey</i>	
EXPERIMENTAL MODAL ANALYSIS ON WOODSOL TIMBER HOLLOW BOX FLOOR ELEMENTS.....	4330
<i>Simone Conta, Anders Homb</i>	
ACOUSTIC SIMULATION OF TIMBER FLOORS USING NUMERICAL MODELS	4338
<i>Santoni Andrea, Caniato Marco, Gasparella Andrea, Fausti Patrizio</i>	
ON-SITE ACOUSTIC INSULATION PERFORMANCE OF A LIGHTWEIGHT PARTITION	4346
<i>Scrosati Chiara, Scamoni Fabio, Depalma Michele, Gandolfi Riccardo</i>	
MEASUREMENT UNCERTAINTY AND PRECISION FOR SOUND INSULATION MEASUREMENTS ON BOARD OF A SHIP	4354
<i>Macleane Lean, Keizer Tjakko, Kalis Jorinus, Möllenkramer Bas</i>	

MEASUREMENT OF THE SOUND TRANSMISSION LOSS OF RAIN SCREEN WALL ASSEMBLIES	4362
<i>Connelly Maureen, Mahn Jeffery, Stehling Eduardo, Tamanna Omid</i>	
COMPARING METHODS FOR DESCRIBING LOW-FREQUENCY AIRBORNE ISOLATION IN ISO AND ASTM STANDARDS	4367
<i>Dong David, Loverde John</i>	
THE DIRECTIVITY OF SOUND RADIATED FROM OPENINGS AND SINGLE LEAF PANELS EXITED BY INCIDENT SOUND	4374
<i>Davy John Laurence, Cambridge Jason, Pearse John</i>	
COMPLIANCE WITH THE WELL V2.0 SOUND CONCEPT IN AN EXISTING COMMERCIAL, URBAN SETTING	4382
<i>Bourdeau Ethan</i>	
COMPONENTS OF VARIANCE IN REVERBERATION TIME MEASUREMENT – PART 1: FIELD TESTING ROOMS OF LIGHTWEIGHT CONSTRUCTION	4389
<i>Whitfield William</i>	

STRUCTURED SESSION T11 SS04 - STRUCTURE-BORNE AND IMPACT NOISE IN BUILDINGS SESSION

DEVELOPMENT OF STOCHASTIC FINITE PREDICTION ELEMENT MODEL FOR CLT FLOORS	4397
<i>Qian Cheng, Ménard Sylvain, Negreira Juan, Bard-Hagberg Delphine</i>	
HIGH-ACCURACY PREDICTION OF FLOOR IMPACT SOUND USING A SPECTRAL ELEMENT METHOD	4405
<i>Araki Yozo, Masuda Kiyoshi</i>	
NUMERICAL SIMULATION OF FLOOR VIBRATION BY USING FINITE-DIFFERENCE TIME-DOMAIN METHOD	4413
<i>Takumi Asakura, Masao Takeshima</i>	
SYNTHESIS OF STRUCTURE-BORNE SOUND BY CONVOLUTION OF THE IMPACT FORCE OF A STANDARDIZED RUBBER BALL AND THE IMPULSE RESPONSE FUNCTION OF THE BUILDING ELEMENT	4420
<i>Roozen N. B., Niemczanowski Alexander, Müllner Herbert</i>	
AN EXPERIMENTAL INVESTIGATION ON THE RERADIATION OF GYM FLOORS DUE TO STRUCTURAL EXCITATION, USING LASER DOPPLER VIBROMETRY	4428
<i>Roozen N. B., Micallef Cynthia, Glorieux Christ, Masoumi Hamid, Veelhaver Bram</i>	
EVALUATION OF THE IMPACT NOISE REDUCTION BY USING THIN FLOORING SOLUTIONS	4436
<i>Fausti Patrizio, Santoni Andrea, Alberto Brighenti, Caniato Marco, Barbaresi Luca, Morandi Federica, Semprini Giovanni</i>	
METHODS FOR RATING LOW-FREQUENCY IMPACT NOISE IN MULTIFAMILY RESIDENCES	4443
<i>Loverde John, Dong Wayland</i>	
THE CASE FOR MINIMUM IMPACT NOISE REQUIREMENTS IN THE NATIONAL BUILDING CODE OF CANADA	4451
<i>Golden Matthew, Mackenzie Roderick</i>	

THEME AREA T12 - UNDERWATER AND MARITIME NOISE

REGULAR SESSION T12 RS01 - UNDERWATER SOUND

A PARAMETRIC STUDY OF THE ENVIRONMENT AND THE ARRAY CONFIGURATION FOR UNDERWATER NOISE MEASUREMENT FROM SHIPS IN SHALLOW WATER	4459
<i>Meyer Valentin, Audoly Christian</i>	
UNDERWATER RADIATION NOISE PREDICTION OF POLAR SCIENTIFIC ICEBREAKER	4467
<i>Wang Mingjie, Wang Shuguang, Cai Wenjia, Chen Bingxian, Yan Bin, Xu Shuhao</i>	
NUMERICAL STUDY ON HYDRODYNAMIC AND ACOUSTIC PERFORMANCE OF A REDESIGNED DUCTED PROPELLER	4475
<i>He Zhiwen, Chen Hongyang, Chen Yong</i>	

MODAL-MUSIC METHOD FOR UNDERWATER TARGET LOCALIZATION	4483
<i>Yu Ge, Li Xiukun</i>	
RAYLEIGH-GP MIXTURE MODEL FOR ACTIVE SONAR CLUTTER IN LITTORAL ENVIRONMENT	4488
<i>Zhang Chi, Cheng Junchao, He Yuanan, Chi Cheng, Chen Hongyu</i>	
SPARSE UNDERWATER ACOUSTIC CHANNEL ESTIMATION UNDER IMPULSIVE NOISE ENVIRONMENTS	4496
<i>Tian Yanan, Han Xiao, Yin Jingwei, Li Lin</i>	
APPLICATION OF TIME-WARPING TRANSFORM FOR SEPARATION OF ACOUSTIC NORMAL MODES IN HORIZONTALLY INHOMOGENEOUS WAVEGUIDES	4503
<i>Godin Oleg A., Katsnelson Boris, Tan Tsu Wei</i>	
IDENTIFICATION OF AQUATIC PLANTS IN SHALLOW WATERS BASED ON THE SOUND ABSORPTION MODEL COMBINED WITH THE DEEP LEARNING METHOD	4511
<i>Zheng Yi, Zhao Chunyu, Liao Weiran, Ding Jingjing, Huang Zhenyu</i>	
GENERALIZED DEBYE SERIES THEORY FOR ACOUSTIC SCATTERING : SOME APPLICATIONS	4518
<i>Gerard Alain, Raju P. K.</i>	

STRUCTURED SESSION T12 SS01 - TECHNOLOGY FOR UNDERWATER SOUND MEASUREMENT AND MONITORING

ACOUSTIC DEVICES FOR STEALTH AND DISCRETION	4526
<i>Hladky-Hennion Anne-Christine, Croenne Charles, Dubus Bertrand, Pham Thi Mai, Divay Laurent, Lardat Raphael, Leon Fernand, Chati Farid</i>	
EXPERIMENTAL STUDY ON THE PERFORMANCE OF THE BLADDER TYPE WATER MUFFLER	4533
<i>Zhuang Wang</i>	
MEASUREMENT AND RECONSTRUCTION OF UNDERWATER ACOUSTIC DISTRIBUTION USING OPTICAL AND TOMOGRAPHIC TECHNIQUES	4541
<i>Wang Min, Yang Ping, He Longbiao, Feng Xiujian, Xing Guangzhen, Koukoulas Triantafillos</i>	
APPLYING BINARY PHASE SHIFT KEYING PULSE TO DETECT LOW-SPEED TARGET IN CLUTTER-FILLED ENVIRONMENT	4548
<i>Chen Hongyu, Zhang Chi, Yu Fujian, Xie Yuchao, Chi Cheng</i>	
A STUDY ON INFLUENCE OF CAVITATION ON PROPELLER NOISE MODULATION CHARACTERISTICS	4554
<i>Cui Lilin, Li Yang</i>	
AN ACOUSTIC METHOD FOR PROPELLER CAVITATION DETECTION BASED ON SUPPORT VECTOR MACHINE	4562
<i>Li Yang, Cui Lilin</i>	

STRUCTURED SESSION T12 SS02 - SHIP AND HARBOUR NOISE AND VIBRATION

SOUND RADIATION AND SOUND INSULATION PERFORMANCES OF MARITIME BULKHEADS	4570
<i>Piana Edoardo Alessio, Carlsson Ulf, Guzzo Massimo, Feng Leping</i>	
RESEARCH ON THE VIBRATION REDUCTION AND SOUND RADIATION INDEX PROPERTIES OF THE CABIN WITH INTERNAL EQUIPMENT	4578
<i>Zhang Wenzheng, Wang Bihao, Jiang Xiaozhou, Lan Bin, Song Haiyang, Cai Fengchun, Ye Xianhui, Feng Jiabin</i>	
A STUDY ON THE ACOUSTIC TRANSMISSION CHARACTERISTICS OF INSHORE FISHING VESSELS FROM NEWFOUNDLAND AND LABRADOR	4586
<i>Burella Giorgio, Lorenzo Moro</i>	
MODELLING AND MEASUREMENT OF CREW ACCOMMODATION NOISE EXPOSURE TO A TOWED SONAR SOURCE	4594
<i>Bosschaart Casper</i>	
ANALYSIS OF NOISE PREDICTION AND OUTFITTING MATERIAL SIMULATION OF HIGH-SPEED VESSEL	4600
<i>Qiongfang Qi, Haihua Deng, Miao Zhang, Jian Chen</i>	
EFFECT OF PROPELLER PHASE ANGLES ON THE VIBRATION RESPONSE OF A TWIN-SCREW SUPER-YACHT	4608
<i>Zambon Alessandro, Moro Lorenzo, Biot Marco</i>	

UNDERWATER NOISE PREDICTION AND DEVELOPMENT OF SPECIAL PURPOSE SHIPS	4616
<i>Ishii Yuki, Sato Kei, Miyawaki Kazuhiro</i>	
ANALYSIS OF DIFFERENCES IN THE UNDERWATER RADIATION NOISE OF SHIPS IN THE PORT APPROACH ZONE	4623
<i>Karol Listewnik</i>	
STUDY ON FREQUENCY OF ELASTIC INSTALLATION SYSTEM OF SHIP EQUIPMENT - VIBRATION ISOLATORS	4631
<i>Chen Pan, Wei Qiang, Liu Zhizhong, Yuan Xingjun, Wang Guan</i>	
RESEARCH ON WHIPPING RESPONSE OF HULL MODEL UNDER ACTION OF BUBBLE LOAD	4639
<i>Li Miao, Shi Dongyan, Ren Wenhui</i>	
OPTIMUM DESIGN METHOD OF DAMPING MATERIAL FOR MARINE GEARBOX BASED ON ACOUSTIC CONTRIBUTION ANALYSIS	4647
<i>Liu Chao, Wang Guan, Yuan Xingjun, Xuan Lingkuan, Liu Yong, Li Shangda</i>	
RESEARCH ON THE INFLUENCE OF HULL DEFORMATION ON SHAFTING ALIGNMENT UNDER DIFFERENT SUB-MERGED DEPTHS	4655
<i>Yan You-Gui, Bu Wen-Jun</i>	
DYNAMICS ANALYSIS OF FREEDOM BEAM WITH AXIAL MOTION UNDERWATER	4662
<i>Jiao Jixuan, Li Hong, Zhang Dongxu, Cheng Shu</i>	
DYNAMIC PARAMETER IDENTIFICATION OF A FULL-SCALE MARINE THRUST BEARING	4670
<i>Hu Zechao, Xu Wei, Qiu Yuanran</i>	

STRUCTURED SESSION T12 SS03 - EU INTERREG ITALY-FRANCE MARITIME PROJECTS ON NOISE REDUCTION IN HARBORS

QUESTIONNAIRE ANALYSIS TO DEFINE THE MOST SUITABLE SURVEY FOR PORT-NOISE INVESTIGATION	4678
<i>Cerniglia Andrea, Chiarella Davide, Cutugno Paola, Di Feo Gelsomina, Ferretti Melissa, Magrini Anna, Marconi Lucia</i>	
PORT NOISE IMPACT AND CITIZENS' COMPLAINTS EVALUATION IN RUMBLE AND MON ACUMEN INTERREG PROJECTS	4686
<i>Licitra Gaetano, Matteo Bolognese, Diego Palazzuoli, Luca Fredianelli, Francesco Fidecaro</i>	
POSSIBLE SOLUTIONS FOR PORT NOISE MONITORING	4694
<i>Borelli Davide, Gaggero Tomaso, Pallavidino Emanuela, Schenone Corrado, Waffo Kamdem Emile Leonard, Yousseu Njotang Clepin Adelphe</i>	

THEME AREA T13 - ACOUSTICS EDUCATION

STRUCTURED SESSION T13 SS01 - EDUCATION IN ACOUSTICS: CATCHING ATTENTION OR TEACHING IN MINUTES USING TRADITIONAL OR NONTRADITIONAL MEDIA AND METHODS

TEACHING SOUND: A MULTIDISCIPLINARY PATHWAY AND INTEGRATE LEARNING EXPERIMENT IN THE CLASSROOM	4702
<i>Gauthier Philippe-Aubert</i>	
POWER IN YOUR POCKET: USING A CREDIT-CARD SIZED MICROCONTROLLER TO IMPROVE INTEREST AND LEARNING IN ACOUSTICS	4710
<i>Wright Andrew, Nolen Amanda</i>	
NAME THAT TIMBRE! AN INTERACTIVE DEMONSTRATION FOR TEACHING CONCEPTS OF HARMONIC CONTENT IN MUSICAL SOUNDS	4718
<i>Piacsek Andrew</i>	

VOLUME 8

SCIENTIFIC CONCERTS OR LEARNING ACOUSTICS WITH ARTS	4723
<i>Gazengel Bruno, Ayrault Christophe</i>	
EXPERIMENTAL MUSICAL INSTRUMENTS FOR ACOUSTICS TEACHING	4731
<i>Gautier Francois, Ablitzer Frederic, Pelat Adrien, Tavera Marc, Leroux Pascal, Burens Christel, Terraes Christian, Jeltsch Jean, De Poorter Muriel, Monteil Melodie</i>	

CREATING VISUAL IMAGES WITH SOUND AND VIBRATION	4735
<i>Newland D E, Sharman L H</i>	
TEACHING/LEARNING ACOUSTICS THROUGH ENTERTAINMENT ?	4743
<i>Robin Olivier, Jaouen Luc</i>	
INFORMAL SCIENCE EDUCATION AND ACOUSTICS	4751
<i>Jones L Keeta</i>	

STRUCTURED SESSION T13 SS02 - EDUCATION IN ACOUSTICS PROGRAMS AT ALL LEVELS (K-8, K-12, UNDERGRADUATE AND GRADUATE)

CLASSE TECHNO "BRUIT": ACOUSTIC WORKSHOP FOR HIGH SCHOOL STUDENTS AT UNIVERSITÉ DU QUÉBEC (ÉTS)	4756
<i>Voix Jérémie, Carillo Kevin, Bouchard-Roy Jacob, Saint-Gaudens Hugo, Crétot-Richert Gabrielle, Bouserhal Rachel</i>	
TEACHING ELECTROACOUSTICS IN A MASTER'S DEGREE AT LE MANS UNIVERSITY: A PUBLIC-PRIVATE PARTNERSHIP	4765
<i>Melon Manuel, Gazengel Bruno</i>	
STOP TEACHING ACOUSTICS, TEACH WHAT "ANNOYING" SOUNDS LIKE	4773
<i>Sylvestre-Williams Nicholas</i>	
PEDAGOGICAL INTEGRATION OF ACOUSTICS FOR THE MASTER'S DEGREE IN ARCHITECTURE AT LAVAL UNIVERSITY AND THE PHYSICAL AMBIANCE WORKSHOP	4777
<i>Mignerone Jean-Philippe, Hardy Jean-François, Potvin André, Demers Claude, Mignerone Jean-Gabriel</i>	

THEME AREA T14 - MUSICAL ACOUSTICS

REGULAR SESSION T14 RS01 - MUSICAL ACOUSTICS

NONLINEAR DYNAMIC ANALYSIS OF ELEMENTS OF MUSIC	4783
<i>Perkins Edmon, Marghitu Dan, Crocker Malcolm, Maksotskaya Margarita</i>	
REVIEW OF ACOUSTIC HYSTERESIS IN FLUTE-LIKE INSTRUMENTS	4790
<i>Bocanegra Johan, Borelli Davide</i>	
PLAYER EVALUATION OF PERFORMANCE AND STUDENT VIOLINS	4798
<i>Fu Lei, Scavone Gary, Fritz Claudia</i>	
ON PHASE AND PITCH IN LOOPBACK FREQUENCY MODULATION WITH A TIME-VARYING FEEDBACK COEFFICIENT	4806
<i>Smyth Tamara, Hsu Jennifer</i>	
ASPHALTOPHONE PROFILE DESIGN	4814
<i>Tucker Alex, Arnold Tim, Perkins Edmon</i>	

STRUCTURED SESSION T14 SS01 - VIBROACOUSTICS OF MUSICAL INSTRUMENTS

VIBROACOUSTIC ANALYSIS OF TRUMPET WALL VIBRATIONS	4822
<i>Chatzioannou Vasileios, Balasubramanian Saranya, Kausel Wilfried</i>	
EXTENSIONS TO THE 2D WAVEGUIDE MESH FOR MODELING THIN PLATE VIBRATIONS	4829
<i>Chafe Chris</i>	
PHYSICAL MODELING IN SOUND SYNTHESIS: VIBRATING PLATES	4837
<i>Schäfer Maximilian, Werner Manuel, Rabenstein Rudolf</i>	
OPTIMISED PASSIVE DISCRETE-TIME MODELS OF FREQUENCY-DEPENDENT LOSS IN LINEAR STRINGS	4845
<i>Desvages Charlotte, Bilbao Stefan</i>	
SIMULATION OF A DAMPED NONLINEAR BEAM BASED ON MODAL DECOMPOSITION AND VOLTERRA SERIES	4853
<i>Helie Thomas, Laroche Beatrice</i>	
MEASUREMENTS OF ACOUSTIC GUITAR TOP PLATES DURING THE VOICING PROCESS	4861
<i>Rau Mark, Hoover Richard</i>	
FORCE MEASUREMENTS AT THE BRIDGE OF A STRING INSTRUMENT FROM ACCELERATION MEASUREMENTS ON THE SOUNDBOARD	4869
<i>Dujourdy Hugo, Ablitzer Frédéric, Cabaret Jérémy, Gautier François</i>	

VIBROACOUSTICS OF THE MUSICAL SAW: EXPERIMENTAL MEASUREMENTS OF TRAPPED MODE SHAPES AND FREQUENCIES VS. BLADE CURVATURE	4877
<i>Worland Randy</i>	

STRUCTURED SESSION T14 SS02 - TOOLS FOR MUSICAL INSTRUMENT DESIGN AND MAKING

EXPERIMENTAL CHARACTERISATIONS OF SINGLE CANE REEDS	4885
<i>Gazengel Bruno, Dalmont Jean-Pierre</i>	
PAFI : AN ONLINE PLATFORM FOR INPUT IMPEDANCE COMPUTATION OF WIND INSTRUMENTS	4893
<i>Curtit Marthe, Grauer Natacha, Dalmont Jean-Pierre, Gilbert Joël</i>	
KEYBOARD TECHNOLOGY: A 3D PRINTED PIANO ACTION AND SELF-TUNING CONTROLLER	4896
<i>Mulholland Rebecca, Perry Isabel, Geng Ying, Perkins Edmon</i>	
A HAPTIC PIANO KEYBOARD BASED ON A REAL TIME MULTIBODY MODEL OF THE ACTION	4903
<i>Timmermans Sébastien, Fiset Paul, Ceulemans Anne-Emmanuelle</i>	
ACOUSTIC CHARACTERIZATION OF FLEXIBLE SINGLE-REED WOODWIND INSTRUMENTS VIA IN-VIVO MEASUREMENTS AND THEORY	4911
<i>Sarigul-Klijn Nesrin, Sarigul-Klijn Marti</i>	
DEVELOPMENT OF PENTAGONAL PLATES WITH HARMONIC SOUND AS PERCUSSION INSTRUMENT	4919
<i>Wang Bor-Tsuen, Chen Po-Chin, Tsai Yau-Guang, Wu Ying-Hui</i>	

STRUCTURED SESSION T14 SS03 - BIOMECHANICAL CONTROL OF MUSICAL INSTRUMENT

KINEMATICAL STRATEGIES DURING HARPISTS' PERFORMANCE	4927
<i>Chadefaux Delphine, Le Carrou Jean-Loïc</i>	
THE EFFECT OF ATTENTIONAL FOCUS ON GESTURE AND CHARACTERISTICS OF SOUND AT THE PIANO	4933
<i>Levy Morris, Lipke-Perry Tracy, Dutto Darren</i>	
IDENTIFICATION OF THE CONSEQUENCES OF A PIANIST'S MOTIONS ON HIS/HER SOUND BY MEANS OF PSYCHOACOUSTIC TESTS AND MOTION CAPTURE	4941
<i>Valiere Jean-Christophe, Lefevre Camille, Colloud Floren, Villard Alain</i>	
UTILIZATION OF PROXIMAL BODY SEGMENTS IN DIFFERENT TYPES OF PIANO KEYSTROKES PRODUCING LOUD TONES	4949
<i>Verdugo Felipe, Pelletier Justine, Traube Caroline, Begon Mickael</i>	

STRUCTURED SESSION T14 SS04 - PHYSICAL MODELING OF MUSICAL INSTRUMENTS AND SINGING VOICE

THE ACOUSTICS OF TROMBONE: HOW DO PLAYERS LIP UP AND DOWN?	4957
<i>Boutin Henri, Smith John, Wolfe Joe</i>	
CONTINUATION OF A PHYSICAL MODEL OF BRASS INSTRUMENT FOR TRUMPET COMPARISONS	4965
<i>Fréour Vincent, Masuda Hideyuki, Usa Satoshi, Tominaga Eiji, Tohgi Yutaka, Cochelin Bruno, Vergez Christophe</i>	
INVERSE MODELLING OF CLARINET PERFORMANCE	4969
<i>Chatzioannou Vasileios, Schmutzhard Sebastian, Hofmann Alex, Pàmies-Vilà Montserrat</i>	
PHYSICAL MODELING SOUND SIMULATIONS FOR THE STUDY OF THE QUALITY OF WIND INSTRUMENTS	4976
<i>Petiot Jean-François, Tournemenne Robin, Gilbert Joel</i>	
NONLINEAR SOUND PROPAGATION IN U-SHAPED DUCTS	4982
<i>Ollivier Sébastien, Lechat Thomas, Gluck Arnaud, Dagna Didier</i>	
MODELLING THE SPECTRAL EVOLUTION OF TRANSIENTS IN WIND INSTRUMENTS	4986
<i>Almeida Andre, Li Weicong, Smith John, Wolfe Joe</i>	
POWER BALANCED TIME-VARYING LUMPED PARAMETER MODEL OF A VOCAL TRACT: MODELLING AND SIMULATION	4994
<i>Wetzel Victor, Hélie Thomas, Silva Fabrice</i>	

A PHYSICAL MODEL FOR THE PREPARED PIANO	5001
<i>Ducceschi Michele, Bilbao Stefan</i>	

THEME AREA T15 - ROAD AND RAILWAY NOISE AND VIBRATION

REGULAR SESSION T15 RS01 - RAILWAY NOISE AND VIBRATION

DETERMINING THE VARIABILITY OF TRAIN NOISE FROM SEMI AND HIGH SPEED TRAINS	5009
<i>Parry Graham, Lamacraft Angela, Serras Anargyros, Ledbetter Mike, Edwards Rebecca</i>	
GROUND BORNE NOISE AND VIBRATION TRANSFER FUNCTION INSIDE SENSITIVE NEO-CLASSIC BUILDINGS FROM PIRAEUS METRO TUNNEL DURING TBM'S OPERATION	5016
<i>Vogiatzis Konstantinos, Mouzakis Haralambos, Zafiropoulou Vassiliki</i>	
EVALUATION AND REDUCTION OF THE COMMON EFFECT OF ROAD AND RAIL NOISE	5024
<i>Butorina Marina, Drozdova Lyudmila, Kuklin Denis</i>	
AN INNOVATIVE NUMERICAL APPROACH FOR TRAIN PASS-BY NOISE FORECASTING	5031
<i>Viscardi Massimo, Arena Maurizio, Ferraiuolo Stefano, Iadevaia Michele, Napolitano Pasquale</i>	
THE SOUND RADIATION OF A TRAM RAIL	5039
<i>Zhang Xianying, Thompson David</i>	
THE STUDY ON NOISE CHARACTERISTICS OF AIR-CONDITIONING OUTLET OF RAILWAY VEHICLE	5047
<i>Song Shike, Zhao Yanju, Liu Shaoqing, Chen Hongwei</i>	
DYNAMIC VEHICLE-TRACK INTERACTION OVER MULTIPLE SHORT AND LONG WAVELENGTH RAIL DEFECTS	5054
<i>Kaewunruen Sakdirat, Aikawa Akira</i>	
OPTIMISING SOIL STIFFNESS ON HIGH SPEED RAIL LINES TO PREVENT VIBRATION	5062
<i>Dong Kaitai, Connolly David, Laghrouche Omar, Woodward Peter, Alves Costa Pedro</i>	
INFLUENCE OF LATERAL WHEEL LOADS ON THE SLEEPER RESPONSE OF A RAILWAY TRACK	5070
<i>Tran Le Hung, Hoang Tien, Duhamel Denis, Foret Gilles, Messad Samir, Loaec Arnaud</i>	
STUDY ON EFFECT OF CURVED TRACK PARAMETERS ON TRACK DECAY RATES	5078
<i>Liu Weifeng, Liu Weining, Tan Xinyu</i>	
MEASUREMENT OF SLAB TRACK BEHAVIOUR AT DIFFERENT SITES	5086
<i>Auersch Lutz, Said Samir</i>	
DYNAMIC RESPONSES OF RAILWAY SLEEPERS TO COUPLING VERTICAL AND LATERAL FORCES	5094
<i>Chayut Ngamkhanong, Sakdirat Kaewunruen, Alex Remennikov</i>	
DYNAMIC PARAMETERS INVERSION OF FOUNDATION SOIL BY SASW FIELD TESTS	5102
<i>Cao Yanmei, Yan Xiaoyu, Zhang Min</i>	
A NEW ANALYSIS FRAMEWORK FOR THE PERFORMANCE EVALUATION OF BASE-ISOLATED BUILDINGS	5109
<i>Sanitate Giuseppe, Talbot James P</i>	
VERTICAL VIBRATION CHARACTERISTICS OF SUPERCONDUCTING CAPSULE TRAIN	5117
<i>You Wonhee, Yoon Ranhee, Lee Jinho, Lee Changyoung, Lee Kwansup</i>	
DYNAMIC ANALYSIS INCLUDING NON-LINEAR MAGNETIC STIFFNESS AND RIDE COMFORT IMPROVEMENT OF THE HIGH SPEED CAPSULE TRAIN	5122
<i>Lee Jin-Ho, You Won-Hee, Lim Jung-Youl, Lee Kwan-Sup</i>	

STRUCTURED SESSION T15 SS01 - NOISE AND VIBRATION FROM TRANSPORTATION

VIBRATION SUPPRESSION IN URBAN RAIL TRANSPORT BY CONTROLLED ENERGY HARVESTING DAMPERS	5129
<i>Nerubenko George, Gurevych Dmytri, Kolomier Pavel</i>	
A FE/BE APPROACH FOR PREDICTING RAILWAY GROUND VIBRATION GENERATED IN URBAN AREAS	5137
<i>Kouroussis Georges, Olivier Bryan, Romero Antonio, Galvin Pedro, Connolly David</i>	
RAILWAY GROUND VIBRATIONS AND DESIGNING DYNAMIC VIBRATION ABSORBERS FOR URBAN RAIL TRANSIT	5145
<i>Kouroussis Georges, Olivier Bryan, Ainalis Daniel, Zhu Shengyang, Zhai Wanming</i>	

VIBRATION ISOLATION USING PERIODIC PILE BARRIERS AGAINST FREIGHT TRAIN-INDUCED ENVIRONMENTAL VIBRATION.....	5153
<i>Ma Meng, Jiang Bolong, Liu Kuokuo, Cao Rongning, Wu Zongzhen</i>	
GROUND-BORNE VIBRATION AND NOISE POLLUTION GENERATED BY VEHICLES CROSSING ROAD BUMPS.....	5161
<i>Toplak Sebastian</i>	
PREDICTION OF TRAFFIC NOISE USING A HYBRID OPTI-MIZED ANFIS-BASED MODEL.....	5169
<i>Toplak Sebastian, Lubej Samo, Lep Marjan</i>	
TONALITY OF NOISE FROM TRUCKS ON A LOW-NOISE PAVEMENT	5177
<i>Van Keulen Wim, Westerveld Ron, Heijnsens Harold</i>	
THIN ASPHALT OVERLAY PAVEMENT MIXES FOR HIGHWAY NOISE MITIGATION	5185
<i>Trevino Manuel</i>	
ASSESSING ROAD PAVEMENT QUALITY BASED ON OPPORTUNISTIC IN-CAR SOUND AND VIBRATION MONITORING	5193
<i>Van Hauwermeiren Wout, Filipan Karlo, David Joachim, De Coensel Bert, Dekoninck Luc, De Pessemier Toon, Joseph Wout, Martens Luc, Botteldooren Dick</i>	

STRUCTURED SESSION T15 SS02 - VEHICLE NOISE, VIBRATION AND HARSHNESS (NVH)

BLOCKED FORCE MEASUREMENT AND ITS APPLICATION TO INTERIOR NOISE CONTROL	5201
<i>Lee Sangkwon, Back Jiseon, An Kanghyeon</i>	
OPERATIONAL TRANSFER PATH ANALYSIS USED TO RANK VIBRO-ACOUSTICAL SOURCES CONTRIBUTION ON A SIDE-BY-SIDE VEHICLE	5206
<i>Gauthier Mathieu, Robin Olivier, Atalla Noureddine</i>	
SEAT PAN ANGLE OPTIMIZATION FOR VEHICLE RIDE COMFORT USING FINITE ELEMENT MODEL OF HUMAN SPINE.....	5214
<i>Desai Raj, Vekariya Ankit, Guha Anirban, Seshu P.</i>	
REALIZATION AND APPLICATION OF A BACKWARD-MULTIPLE REFERENCE TRANSFER PATH ANALYSIS METHOD FOR ROAD NOISE ANALYSIS	5222
<i>Peng Bo, Pang Jian, Liao Xiangning, Zheng Sifa</i>	
A NON-CONFORMING MODE SYNTHESIS METHOD FOR EFFICIENT VIBRO-ACOUSTIC ANALYSIS OF PASSENGER CARS	5230
<i>Chen Danhua, Mi Yongzhen, Wang Tianxiu, Zheng Hui</i>	
ANALYSIS OF INTERIOR NOISE OF AN ELECTRIC VEHICLE AT HIGH SPEED	5236
<i>Wu Xian, Liu Jitian, Shao Jianwang, Deng Guoming</i>	
INTERIOR ACOUSTIC PERFORMANCE AND NVH PACKAGE ASSESSMENT OF EUROPEAN MARKET BATTERY ELECTRIC VEHICLES	5244
<i>Ferrali Leonardo, Cardillo Marco, Caprioli Davide</i>	
MODELLING VIBRATION TRANSMISSION THROUGH A CAR'S DAMPER AND TOP MOUNT STRUT.....	5252
<i>De Brett Matthew, Bulin Tore, Langley Robin, Andrade Acosta Luis, Nielsen Ole</i>	
EXPERIMENTAL INVESTIGATION ON RELATIVE MOTION INFLUENCE FOR FRICTION-INDUCED VIBRATIONS AT THE AUTOMOTIVE DOOR SEALING SYSTEM.....	5260
<i>Arzt Kathrin, Lochbrunner Peter, Hinrichsen Olaf</i>	
FUNDAMENTAL STUDY ON GENERATION MECHANISM OF AUTOMOTIVE DISC BRAKE HOT JUDDER BASED ON A SELF-EXCITED VIBRATION	5269
<i>Nakasono Tatsuya, Nakae Takashi, Ryu Takahiro</i>	
NOISE SOURCE IDENTIFICATION METHODOLOGY FOR PNEUMATIC COMPRESSOR ASSEMBLY NOISE IN COMMERCIAL VEHICLE BY EXPERIMENTAL TECHNIQUES.....	5277
<i>Bhangale Rajesh, Shah Bhartendra, Srinivas Venkat</i>	
PREDICTIVE TOOLS INTEGRATION TOWARDS MEETING EXHAUST SYSTEM DESIGN CHALLENGES IN COMPACT HIGH POWER DENSITY VEHICLES	5285
<i>Poulin Etienne, Coulon Jean-Michel</i>	
STUDY ON INTERIOR NOISE CONTROL MEASURES OF HIGH-SPEED MAGLEV TRAIN.....	5293
<i>Zhu Leiwei, Ding Sansan, Liu Shaoqing, Guo Jianqiang, Zhao Yanju, Sun Zhaojin</i>	
NOISE PREDICTION OF SUBWAY BASED ON VIRTUAL SIMULATION MODEL.....	5300
<i>Sun Zhaojin, Chen Hongwei, Pan Guangliang</i>	
FUNDAMENTAL STUDY ON OPTIMAL DESIGN OF DYNAMIC ABSORBER TO SUPPRESS SUBHARMONIC VIBRATION OF ORDER 1/2 IN AUTOMATIC TRANSMISSION FOR CARS	5307
<i>Ueno Risa, Ryu Takahiro, Nakae Takashi, Matsuzaki Kenichiro</i>	

BLIND DRIVING BY MEANS OF THE TRACK ANGLE ERROR	5315
<i>Bazilinsky Pavlo, Laurens Bijker, Dielissen Tim, French Shin, Mooijman Tom, Peters Luka, Happee Riender, Dodou Dimitra, De Winter Joost</i>	
DYNAMIC ANALYSIS OF PISTON SECONDARY MOTION USING FEM METHOD	5323
<i>Faisal O. Mahroogi, S Narayan</i>	
VARIED STATIC STIFFNESS OF SPRING UNDER PRE-LOAD	5331
<i>Chen (Jing-Ar Baba) Min</i>	
SOURCE BASED MEASUREMENTS AND MONITORING OF GROUND MOTION CONDITIONS DURING CIVIL ENGINEERING WORKS FOR HIGH LUMINOSITY UPGRADE OF THE LHC	5339
<i>Scislo Lukasz, Guinchard Michael</i>	

PLENARY LECTURES

ACOUSTICAL BEHAVIOR OF THE BONE-IMPLANT INTERFACE: FROM MULTISCALE MODELING TO THE PATIENTS BED	5347
<i>Guillaume Haiat</i>	
NOISE TRANSMISSION AND ABSORPTION OF LIGHTWEIGHT STRUCTURES: AN OVERVIEW AND EXPERIENCE	5350
<i>Liu Bilong</i>	
UNIQUE VIBRATION PHENOMENA IN HIGH-SPEED, LIGHTWEIGHT, COMPLIANT GEARS	5362
<i>Parker Robert</i>	
VARIABILITY IN SPEECH AND SPOKEN WORD RECOGNITION: A SHORT INTRODUCTION	5363
<i>Clayard Meghan</i>	
CONVENTIONAL AND NON-CONVENTIONAL POROUS MATERIALS FOR NOISE CONTROL: OVERCOMING CONVENTIONAL LIMITS	5369
<i>Panneton Raymond</i>	
WHEN YOUR LIFE AND EARS DEPEND UPON HEARING PROTECTION: THE CONUNDRUM OF AUDITORY SITUATION AWARENESS AND ATTENUATION	5370
<i>Casali John</i>	
Author Index	