

## MONDAY 18 SEPTEMBER

MONDAY 18 SEPTEMBER			
Mon 18 08:00	REGISTRATION: FOYER		
Mon 18 08:45	CONFERENCE OPENING: LG29 <i>Mike Kidner and Carl Howard</i>		
KEYNOTE LECTURE: LG29			
Mon 18 09:00	Digital Signal Processing Algorithms And Implementations On Active Noise Control Systems <b>Sen Kuo</b> <i>Chair: Carl Howard</i>		
Mon 18 10:00	TEA / COFFEE BREAK, FOYER		
	LG28	LG29	LG24
	<b>Active Control in Vehicles</b> <i>Ingo Borchers</i>	<b>Active Structural Acoustic Control</b> <i>Arthur Berkhoff</i>	<b>Smart materials and Structures</b> <i>Alain Berry</i>
Mon 18 10:30	Feedback noise control of low frequency noise in a station-wagon using a field programmable analog array (fpaa) Carl Howard paper: a06.103.pdf     p.6	Active modal control of radiated noise of a submarine hull Xia Pan paper: a06.109.pdf     p.11	Flexural vibration of a smart laminated fgm plate with initial imperfections Jie Yang paper: a06.006.pdf     p.29
Mon 18 10:50	Interior active noise control in turbofan aircraft: characterisation of the test-article and numerical simulation for optimal actuator positioning by genetic algorithms Francesco Franco paper: a06.024.pdf     p.6	A high-authority–low-authority control strategy for coupled aircraft-style bays Noah Schiller paper: a06.032.pdf     p.10	Distributed magnetorheological, MR, fluid damper for active structural vibration control Ley Chen paper: a06.030.pdf     p.29
Mon 18 11:10	Optimization of actuator configuration for the reduction of structure-borne noise in automobiles Patrice Masson paper: a06.047.pdf     p.7	Stability and controllability of velocity feedback loops with triangularly shaped piezoelectric actuators Paolo Gardonio paper: a06.055.pdf     p.10	Boeing’s morphing aerostructure for jet noise reduction James Mabe paper: a06.106.pdf     p.30
Mon 18 11:30	Sound profiling active noise control system Christian Carme paper: a06.058.pdf     p.7	Simultaneous noise and vibration control using active structural acoustic control inside an enclosed stiffened cylinder with floor structure Marc Simpson paper: a06.071.pdf     p.11	Experimental evaluation of MR controllable friction damper Bogdan Sapinski paper: a06.104.pdf     p.30
Mon 18 11:50	An investigation into active synchrophasing for cabin noise reduction in propeller aircraft David Blunt paper: a06.087.pdf     p.7	Design of radiation mode sensors by means of piezoelectric fibers Stanislaw Pietrzko paper: a06.118.pdf     p.11	Negative capacitance shunts for vibration suppression: wave based tuning and reactive input power Kenneth Cunefare paper: a06.110.pdf     p.30
12:10	LUNCH, Engineering building		

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## MONDAY 18 SEPTEMBER

KEYNOTE LECTURE: LG29			
How Big Is Your Head? A Discussion Of System Complexity, Active Control, Acoustic Arrays And Virtual Acoustic Prototyping.			
<b>Marty Johnson</b>			
<i>Chair: Mike Kidner</i>			
TEA / COFFEE BREAK, FOYER			
	LG28	LG29	LG24
	<b>Active Sound Control</b> <i>Francesco Franco</i>	<b>Decentralised Control</b> <i>Dunant Halim</i>	<b>Active Control in Ducts</b> <i>Stanislaw Pietrzko</i>
Mon 18 13:10			
Mon 18 14:10			
Mon 18 14:40	Feasibility study on active noise control of moving source in view using directional microphones and directional speakers Masaharu Nishimura paper: a06.045.pdf p.9	Smart panel with decentralised inertial actuator active dampers Cristobal Gonzalez Diaz paper: a06.031.pdf p.19	An analysis of the active silencer with and without side-branch resonator Wu Bin paper: a06.021.pdf p.5
Mon 18 15:00	Feedback control of broadband axial fan noise for global attenuation Scott Sommerfeldt paper: a06.064.pdf p.9	Decentralised control using multiple velocity feedback loops Oliver Baumann paper: a06.052.pdf p.19	Active noise control for large exhaust pipe Christian Carne paper: a06.057.pdf p.5
Mon 18 15:20	Limits on active noise control performance at virtual error sensors Dick Petersen paper: a06.090.pdf p.9	Performance and stability properties of a smart double panel with decentralized active dampers Paolo Gardonio paper: a06.059.pdf p.20	Decentralised feedback control for active absorption in flow ducts Marie-annick Galland paper: a06.098.pdf p.5
Mon 18 15:40	Active control of sound transmission into an acoustic cavity surrounded by multiple flexible structural boundaries Guoyong Jin paper: a06.010.pdf p.8		
Mon 18 18:00	<b>Conference Banquet, Stamford Grand Hotel, Glenelg</b>		

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TUESDAY 19 SEPTEMBER

KEYNOTE LECTURE: LG29			
Tue 19 09:00	Using Energy Based Control To Achieve Global Attenuation <b>Scott Sommerfeldt</b> <i>Chair: Colin Hansen</i>		
Tue 19 10:00	TEA / COFFEE BREAK, FOYER		
	LG28	LG29	LG24
	<b>Feedback control</b> <i>Rohin Wood</i>	<b>Signal Processing and Algorithms I</b> <i>Stephen Elliott</i>	<b>Active Vibration Control I</b> <i>Anthony Zander</i>
Tue 19 10:30	Optimal truncated model for flexible structure system within a frequency band Dunant Halim paper: a06.028.pdf p.21	Frequency-domain broadband active sound quality control algorithms Sen Kuo paper: a06.008.pdf p.26	Material-adapted vibro-acoustic simulation concepts for actively damped lightweight structures Martin Dannemann paper: a06.011.pdf p.12
Tue 19 10:50	The mechanisms of feedback control active ear defenders Roshun Paurobally paper: a06.042.pdf p.21	The implementation of delayless sub-band active noise control algorithms Xiaojun Qiu paper: a06.017.pdf p.26	Optimal vibration control for overhung rotor system using actively flexible pedestal Kazuki Mizutani paper: a06.026.pdf p.13
Tue 19 11:10	A semi-active friction device controlled by nonlinear feedbacks and phase-shift compensation Patrice Masson paper: a06.051.pdf p.22	Behaviour of the films adaptive algorithm Branislav Vuksanovic paper: a06.023.pdf p.26	Active damping of a vibrating string Edgar Berdahl paper: a06.072.pdf p.14
Tue 19 11:30	Nonresonant response of van der pol-duffing oscillator with nonlinear feedback control Jc Ji paper: a06.117.pdf p.22	Adaptive wave field synthesis with independent radiation mode control for active sound field Alain Berry paper: a06.036.pdf p.27	
Tue 19 11:50		Natural Mechanisms for feedback control of vibration in the inner ear Steve Elliott paper: – p.22	
12:10	LUNCH, Engineering building		

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## TUESDAY 19 SEPTEMBER

KEYNOTE LECTURE: LG29			
Active Control Of Ocean Vehicle Vibration And Motion			
<b>Jie Pan</b>			
<i>Chair: Anthony Zander</i>			
TEA / COFFEE BREAK, FOYER			
	LG28	LG29	LG24
	<b>Feedforward control</b> <i>Xiaojun Qiu</i>	<b>Active Vibration Isolation</b> <i>Bogdan Sapinski</i>	<b>Active Vibration Control II</b> <i>Marty Johnson</i>
Tue 19 13:10			
Tue 19 14:10			
Tue 19 14:40	Acoustic feasibility of feedforward control in call centers Aurèlie Boudier paper: a06.034.pdf p.23	Zero-stiffness magnetic supports for active vibration control Will Robertson paper: a06.080.pdf p.16	Model identification and optimal $H_2$ vibration control of an aeronautical panel Giuseppe De Maria paper: a06.035.pdf p.13
Tue 19 15:00	A fast system structure for multichannel active control Iwao Nagashiro paper: a06.043.pdf p.23	Development of a controllable damping engine mount using mr fluid for reduction of impact force during automobile collision Toshihiko Shiraishi paper: a06.101.pdf p.16	Experiments in active control of panel vibrations with spatially weighted objectives using multiple accelerometers Dunant Halim paper: a06.039.pdf p.14
Tue 19 15:20	A comparison of convergence and tracking in ED and SP based fx-lms algorithms Benjamin Faber paper: a06.068.pdf p.24		Comparison between different controllers when having abrupt changes in a process Henrik Akesson paper: a06.046.pdf p.14
Tue 19 15:40	Phase corrected algorithm and its application to the active control of ship interior noise Naoaki Shibatani paper: a06.081.pdf p.24		
Tue 19 16:00	Tour of Mechanical Engineering Laboratories. See notice board for details.		
Tue 18 17:30	<b>Cocktail Evening, Adelaide Zoo</b>		

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 WEDNESDAY 20 SEPTEMBER
 

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## KEYNOTE LECTURE: LG29

Wed 20  
09:00

Sensor–Actuator Transducers For Smart Panels

**Paolo Gardonio***Chair: Mike Kidner*Wed 20  
10:00

TEA / COFFEE BREAK, FOYER

	LG28	LG29	LG24
	<b>Semi-active control</b> <i>JC Ji</i>	<b>Transducers for active control</b> <i>Patrice Masson</i>	<b>Array processing and imaging</b> <i>Damien Leclercq</i>
Wed 20 10:30	Active tuning of a resonance changer to minimise the vibration transmission in a submarine Paul Dylejko paper: a06.079.pdf p.25	Design and fabrication of a micro velocity sensor for direct velocity feedback control systems Marco Gavagni paper: a06.056.pdf p.31	Acoustic reflectometry for determination of waveguide geometry James Carneal paper: a06.016.pdf p.17
Wed 20 10:50	Tuning a semi-active helmholtz resonator Sarabjeet Singh paper: a06.092.pdf p.25	Nonlinear models of electro pneumatic transducers for use in feedforward active noise control schemes André Jakob paper: a06.060.pdf p.31	Tracking noise sources using multiple mobile microphone arrays Marty Johnson paper: a06.065.pdf p.18
Wed 20 11:10	Hybrid piezo-poroelastic sound package concept: numerical/experimental validations Cedric Batifol paper: a06.099.pdf p.25	Active control of sound using a parametric array Mike Kidner paper: a06.111.pdf p.31	Control of low-frequency wall reflections in an anechoic room Emmanuel Friot paper: a06.048.pdf p.17
Wed 20 11:30		Implementing active noise control with parametric array loudspeaker as system controller Alfred Tan paper: a06.041.pdf p.32	
Wed 20 11:50	TEA / COFFEE BREAK, FOYER		

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## WEDNESDAY 20 SEPTEMBER

	LG28	LG29	LG24
	<b>Active Vibration Control III</b> <i>Scott Sommerfeldt</i>	<b>Signal Processing and Algorithms II</b> <i>Colin Hansen</i>	<b>Virtual Reality Applications and Psychoacoustics</b> <i>Anthony Zander</i>
Wed 20 12:10	Usage of active balancing devices for passing through flexible rotor modes in active magnetic bearings Kai Adler paper: a06.093.pdf p.14	The selected digital systems of active sound control Wojciech Ciesielka paper: a06.061.pdf p.27	3D reproduction of low-frequency sound fields using the boundary pressure control method Nicolas Epain paper: a06.049.pdf p.18
Wed 20 12:30	Distributed control of a simply supported beam Oliver Baumann paper: a06.107.pdf p.15	Development of hartley domain filtered-s lms algorithm for active noise control system Debi Prasad Das paper: a06.089.pdf p.28	Noise masking using psychoacoustics Sen Kuo paper: a06.022.pdf p.33
Wed 20 12:50	Fault tolerant active vibration control Steve Elliott paper: a06.108.pdf p.15	A modified filtered-error algorithm with fast convergence in systems with delay Arthur Berkhoff paper: a06.097.pdf p.28	Acoustic field reproduction for psychoacoustic experiments: application to aircraft interior noise Maxime Keller paper: a06.054.pdf p.33
Wed 20 13:10	<b>Conference Close and Barbie, Napier Lawn</b>		