

Schedule of 10th Conference on Active Noise and Vibration Control Methods MARDIH'2011

Monday, 6 June 2011		Tuesday, 7 June 2011		Wednesday, 8 June 2011	
7 ⁰⁰		Breakfast	Breakfast	Breakfast	
8 ⁰⁰					
9 ⁰⁰					
0 ⁰⁰	Registration	Session 03			
1 ⁰⁰		Coffee break			
2 ⁰⁰		Session 04			
3 ⁰⁰	Lunch		Lunch		Excursion to Prague
4 ⁰⁰					
5 ⁰⁰	Opening of the conference	Session 05			
6 ⁰⁰	Session 01	Coffee break			
7 ⁰⁰	Coffee break	Poster session			
8 ⁰⁰	Session 02	Closing of the conference			
9 ⁰⁰					
10 ⁰⁰	Dinner - Banquet	Dinner - Bonfire			
11 ⁰⁰					

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10:00 – 13:30

Registration

13:00 – 14:00

Lunch

14⁰⁰14³⁰ 14:30 – 16:30**J. KOWAL** *Opening speech***Z.Q.LANG, H. LAALEJ, B. SAPIŃSKI, P. MARTYNOWICZ** *Keynote lecture: MR damper-based implementation of nonlinear damping for the vibration control of a pitch plane suspension system***Session 01***Chairmans: Z. Engel, J. Nizioł*

1. **S. PIETRZKO, Q. MAO** *Control of sound transmission through a double wall structure*
2. **Z. GOSIEWSKI** *Virtual relocation of measurement signals*
3. **K.J. KALIŃSKI, C. BUCHHOLZ** *Trajectory optimal control of three wheeled mobile platform at time changeable energy performance index*
4. **A. MYSTKOWSKI, L. AMBROZIAK** *Rotor vibration control by passive magnetic bearing with Hallbach-array*
5. **B. SAPIŃSKI, K. TOKARZ** *Active vibration suppression of uncertain flexible structure: loop shaping and robustness*

16³⁰

16:40 – 17:00

Coffee break17⁰⁰

17:00 – 18:30

Session 02*Chairmans: A. Seweryn, M.A. Książek*

1. **A.P. KOSZEWNIK, Z. GOSIEWSKI** *Active vibration control system for 3-D mechanical systems*
2. **M. KONDRATIUK, Z. GOSIEWSKI, L. AMBROZIAK** *Active coil-core system as a part of rigid body support and its influence on the body vibrations*
3. **G. CIEPŁOK, P. PYZIK** *Reducing lateral vibration of a rotor passing through critical speed by proper driving torque determination*
4. **M. JABŁOŃSKI, A. OZGA** *The role of ergodicity in the search for the stochastic distribution of impulses forcing the motion of linear systems*
5. **A. PARUS, B. POWAŁKA** *Vibrostability improvement using the active clamp in machining*
6. **M. SIBIELAK, W. RĄCZKA, J. KONIECZNY** *C-LQR method dedicated for seat suspension*

18³⁰19⁰⁰ 19:00**Dinner - Banquet**19³⁰20⁰⁰20³⁰21⁰⁰

07⁰⁰ 07:00 – 09:00

Breakfast

07³⁰

08⁰⁰

08³⁰

09⁰⁰ 09:00 – 10:30

Session 03

Chairmans: **S. Pietrzko, W. Batko**

09³⁰

1. **W. HEINS, P. BALLESTEROS, Ch. BOHN** *Gain-scheduled state feedback control for active cancellation of multisine disturbances with time-varying frequencies*
2. **M. PAWEŁCZYK, M.I. MICHALCZYK, K. CZYŻ, M. LATOS, K. MAZUR** *Signal procesing in an active noise reducing earplug with improved communication features*
3. **P. GÓRSKI** *Reduction of audible warning device signal in communication channel of privileged vehicles using notch filters*
4. **K. MAZUR, M. PAWEŁCZYK** *Feed-forward equalization of sound radiation from a vibrating plate*
5. **K. MAZUR, M. PAWEŁCZYK** *Feed-forward compensation for nonlinearity of vibrating plate as the sound source for active noise control*
6. **P. WATRAS, M. PAWEŁCZYK** *Active noise control based on potential and kinetic acoustic energy density estimates*

10⁰⁰

10³⁰ 10:30 – 11:00

Coffee break

11⁰⁰ 11:00 – 12:30

Session 04

Chairmans: **Z. Gosiewski, A. Mężyk**

11³⁰

1. **R. DI LEO, L. LECCE, R. PECORA, F. AMOROSO** *Development of a new semi-active friction damper with piezoelectric technology for the anti-seismic control of civil structures*
2. **P. GORCZYCA, M. ROSÓŁ** *A Semi-active suspension system model*
3. **P. KOS, L. LENIOWSKA** *Closed-loop identification algorithms for self-tuning control of circular plate*
4. **B. SAPIŃSKI, Ł. JASTRZĘBSKI** *Characteristics of an MR damper-based suspension system with energy regeneration*
5. **M. ROMASZKO, S. PAKUŁA, B. SAPIŃSKI, J. SNAMINA** *Vibration parameters of MR fluid-based sandwich beam with various solids content*
6. **P. CUPIAŁ, Ł. ŁACNY** *Neural network emulation of the dynamics of a smart cantilever beam*

12⁰⁰

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13⁰⁰ 13:00 – 14:00

Lunch

13³⁰

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15⁰⁰

15:00 – 16:30

Session 05

Chairmans: M. Pawelczyk, J. Snamina

15³⁰

1. J. KOWAL, J. SNAMINA, T. WZOREK *Calculations for the project of the laboratory stand for testing vehicle suspensions*
2. T. ŁUKOMSKI, T. STĘPIŃSKI, J. KOWAL *Resonant ultrasound spectroscopy in diagnostics of drills*
3. R. RUMIN, J. CIEŚLIK *Vibration control of rotating machinery*
4. J. KWAŚNIEWSKI, I. DOMINIK, K. LALIK *Self-excited acoustical system for stress measurement in cement plant*
5. M. IWANIEC, Ł. LECH *Influence of failures on transmission towers dynamic properties*
6. S. FLAGA, B. SAPIŃSKI *Properties of the magnetic shape memory alloy actuator*

16⁰⁰

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16:30 – 17:00

Coffee break

17⁰⁰

17:00 – 18:15

W. BATKO Keynote lecture: *Limitations and problems to be solved in identification of models needed for controlling the acoustic climate*

Poster session

Chairmans: J. Kwaśniewski, M. Iwaniec

17³⁰

1. S. KCIUK, A. MEŻYK, W. KLEIN *The numerical and experimental studies of the prototype MR damper*
2. B. SAPIŃSKI, J. SNAMINA, W. WSZOLEK, M. ROMASZKO *Acoustic pattern of a vibrating beam with MR fluid in the magnetic field*
3. W. RĄCZKA, J. KONIECZNY, M. SIBIELAK *Modelling of a vibration reduction system based on SMA spring*
4. M.A. KSIAŻEK, J. TARNOWSKI *Estimation of transmission of hand pressure forced through human body – experimental investigations*
5. J. SNAMINA *Model based predictive control of beam with MR fluid*
6. P. ORKISZ *Active vibration control system with energy regeneration for simple mechanical model*
7. J. PLUTA, M. SIBIELAK *Laboratory tests of the throttle valve with piezoelectric positioner*

18⁰⁰

18³⁰

Closing of the conference

19⁰⁰

19:00

Dinner - Bonfire

19³⁰

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07⁰⁰ 07:00 – 09:00

Breakfast

08⁰⁰

09⁰⁰ 09:00

Excursion to Prague

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