

2018 KAIST-KTH

Joint Workshop on Vibro-acoustics



Dates : 2018. 9.10(Mon)-9.13(Thu)

Place : E1 Seminar Rm (3rd Flr), N7 Bldg.

Organized by

- Center for Noise & Vibration Control, KAIST
- Marcus-Wallenberg Lab., KTH

Supported by

- NRF-STINT Research Collaboration Program
- Dept. of Mechanical Engineering, KAIST
- College of Engineering, KAIST

9/10 (MON) - Lecture Series

* Chair - Morning : Jeong-Guon Ih / Afternoon : Mats Åbom

09:10-09:20	Welcoming remark	Prof. Jeong-Guon Ih
09:20-10:20	Introduction Prof. Youngjin Park , Prof. Hans Bodén	
10:20-10:35	<i>Break</i>	
10:35-11:50	Drone rotor noise at low Reynolds number Prof. Duck-Ju Lee	
11:50-13:10	<i>Lunch</i>	
13:10-14:25	Inverse vibro-acoustic technique for source identification and field rendering Prof. Jeong-Guon Ih	
14:25-14:40	<i>Break</i>	
14:40-15:55	Experimental-numerical methods for inverse characterisation of material properties of anisotropic-anelastic porous materials Prof. Peter Göransson	
15:55-16:10	<i>Break</i>	
16:10-17:25	History and recent progress of active noise control Prof. Youngjin Park	
17:30 -	<i>Photo session & Welcoming party</i>	<i>Sky Lounge</i>

9/11 (TUE) - Lecture Series

* Chair - Morning : Hans Bodén / Afternoon : Wan-Ho Cho

09:10-09:20	Remarks	
09:20-10:20	Aeroacoustic characterization of turbo-machinery Prof. Mats Åbom	
10:20-10:35	<i>Break</i>	
10:35-11:50	Human-related parameter identification via vibration signal processing for applications to health sensor and speech recognition Prof. Yong-Hwa Park	
11:50-13:10	<i>Lunch</i>	
13:10-14:25	Challenges in acoustic liner research Prof. Hans Bodén	
14:25-14:40	<i>Break</i>	
14:40-15:55	Primary standards of the acoustic measurement Dr. Wan-Ho Cho	
15:55-16:10	<i>Break</i>	
16:10-17:25	Near-perfect absorption of mechanical waves using meta-structures Prof. Wonju Jeon	
17:30 -	<i>Get-together activity</i>	<i>Faculty Club</i>

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9/12 (WED) - Students' Session

09:10-09:20	Remarks	
		* Chair : Ki Ho Lee & Simon Haidary
09:20-09:45	Sound source localization for humanoid robot in low SNR environment Injune Hwang	
09:45-10:10	Accuracy improvement of an 6-axis Industrial robot with a 3D-Printed structure Peter Eriksson	
10:10-10:35	Experimental validation of vibration damping using curvilinear acoustic black holes Seongmin Park	
10:35-10:50	<i>Break</i>	
		* Chair : Jae Duck Lee & Marcus Johansson
10:50-11:15	Improved guidelines for accelerated vibration testing B. K. Prajna	
11:15-11:40	Sound radiation from an acoustic blackhole structure Jae-Hak Jeong	
11:40-12:05	Analytic, simulation and experimental analysis of simple fluid-pipe systems Siddharth Venkataraman	
12:05-13:10	<i>Lunch</i>	
		* Chair : Hak Jun Lee & Fredrik Lindström
13:10-13:35	Speech separation in cocktail party under reverberant environment Seonghu Kim	
13:35-14:00	Active noise control using virtual reference signals in an FXLMS algorithm Johan Nygren	
14:00-14:25	In-situ estimation of impedance in enclosed space using circular microphone Sooyoung Park	
14:25-14:50	Informal program	
14:50-15:05	<i>Break</i>	
15:05-15:45	Discussion	* Chair : Jae Yeon Lee & Rebecca Janson
15:45-17:15	NoViC Lab Tour	* Chair : In-Jee Jung
17:15-17:25	Closing / wrap-up	
17:25 -	<i>Get-together evening by students</i>	

