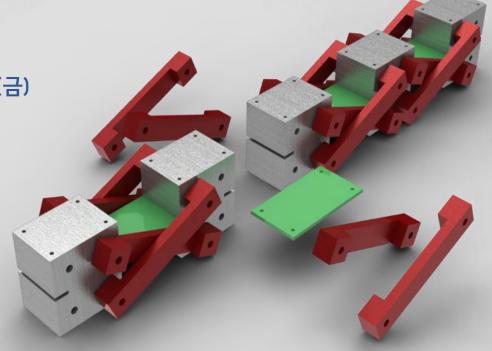
Mechanical Metamaterials Conference 2018

2018년 10월 5일 (금)

9:00~18:00

서울대학교 차세대연구센터 (314동 211호)



- Metamaterials for the manipulation of acoustic/elastic waves and mechanical vibrations
- Metamaterials for extreme mechanical properties including auxetic materials
- Soft/Flexible mechanical metamaterials
- Related subjects to mechanical metamaterials

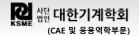
[참석/등록] 주제에 관심있는 모든 분이 참석이 가능하나, 장소의 한계로 사전 등록자만 선착순으로 참석이 가능하오니, 사전 등록 부탁드립니다. (등록: https://sites.google.com/view/mmc-2018)

• 참가비는 없음. (단, 식사 제공은 invited speaker께만 해당됩니다)

조직위원장: 김윤영(서울대)

조직위원: 전원주(KAIST), 김도년(서울대), 이중석(충남대), 오주환(UNIST), 이혁(서울대 정밀연)

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Oct. 5TH (Fri.), 2018

Morning Session

Moderator: Prof. Wonju Jeon

Time	Speakers		Title	
9:00~9:20	Registration			
9:20~9:30	Yoon Young Kim (Seoul National University)		Opening Remarks	
Mechanical Metamaterials Session 1 < Chair: Prof. Wonju Jeon>				
9:30~10:00	Plenary Talk	Sam-Hyeon Lee (Yonsei University)	Water-to-Air acoustic impedance matching with a metasurface of subwavelength thickness	
10:00~10:20	Invited	Do-Nyun Kim (Seoul National University)	Application of Auxetic Patterns for Stiffness Design	
10:20~10:40	Invited	Dongchoul Kim (Sogang University)	Shock Absorbing Thermal Metamaterial for Portable Electronic Devices	
10:40~11:10	Coffee Break			
Mechanical Metamaterials Session 2 < Chair: Prof. Do-Nyun Kim >				
11:10~11:30	Invited	Wonju Jeon (Korea Advanced Institute of Science and Technology)	Near-perfect absorption of mechanical waves using meta-structures	
11:30~11:50	Invited	Kyungjun Song (Korea Institute of Machinery and Materials)	Acoustic beam forming via sinusodially modulated admittance surface	
11:50~12:10	Invited	Hyung Jin Lee (Korea Research Institute of Standards and Science)	Characterization of anisotropic elastic metamaterials	
12:10~12:30	Invited	Kiyean Kim (Seoul National University, IAMD)	Near-zero effective impedance by resonator pairing for sensing/actuation enhancement	
12:30~13:30	Lunch and Photo time			

Oct. 5TH (Fri.), 2018

Afternoon Session

Moderator: Prof. Wonju Jeon

Time	Speakers		Title	
Time	1			
Mechanical Metamaterials Session 3 < Chair: Prof. Joo Hwan Oh >				
13:40~14:10	Plenary Talk	Namkyoo Park (Seoul National University)	Extension of Generalized Snell's Law: Bianisotropic Metasurfaces	
14:10~14:30	Invited	Joong Seok Lee (Chungnam National University)	Metaporous materials for broadband sound absorption by multiple slow waves	
14:30~14:50	Invited	Wonjae Choi (Korea Research Institute of Standards and Science)	Double-zero-index phononic crystal for ultrasonic underwater applications	
14:50~15:10	Invited	Hyuk Lee (Seoul National University, IAMD)	Total Transmission Elastic Metasurface Design with Mass-Spring Model	
15:10~15:40	Coffee Break			
Mechanical Metamaterials Session 4 < Chair: Prof. Joong Seok Lee >				
15:40~16:00	Invited	Joo Hwan Oh (Ulsan National University of Science and Technology)	Vibration Tailoring with Flexural Elastic Metamaterial	
16:00~16:20	Invited	Eunho Kim (Chonbuk University)	Linear/nonlinear waves in granular metamaterials	
16:20~16:40	Invited	Pyung Sik Ma (Korea Institute of Machinery and Materials)	Low-frequency sound scattering by structured elastic cylinders	
16:40~17:00	Invited	Jaeyub Hyun (Korea Research Institute of Standards and Science)	Realization of a planar acoustic lens for subwavelength focusing	
17:00~17:20	Invited	Heonjun Yoon (Seoul National University, IAMD)	Elastic metamaterial-inspired piezoelectric energy harvesting	
17:20~17:30	Closing Remarks			
18:00~	Dinner (Invited Presenters Only)			