



# Session Program

13:00-13:20	<b>Opening Ceremony (Room 3)</b>
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## Session 1A (Room 3), Chair: Prof. Minho Yoon

13:30-13:45	Yusuke Nabae	Capability of net energy saving in a turbulent plane Couette flow controlled using uniform blowing and suction
13:45-14:00	Namkeun Kim	Enhancing noise reduction with cochlear mechanics
14:00-14:15	Jan Mueller	Integrated simulation of airframe and running engine to examine their aerodynamic interaction effects
14:15-14:30	Moon Ki Kim	Small punch test for additive manufacturing
14:30-14:45	Nobuyuki Oshima	Flow simulation directly driven from digital image data

## Session 1B (Room 4), Chair: Prof. Takayuki Yamada

13:30-13:45	Joo Hwan Oh	Flexural metamaterial: shielding and tailoring vibration
13:45-14:00	Garuda Fujii	Topology optimized-unfeelability metastructure generating tensile stress by external compressive load
14:00-14:15	Janghyuk Moon	Multiscale mechanical modeling of electrode and cell design for Lithium ion batteries
14:15-14:30	Yoshitaka Wada	Computational fracture mechanics meets data science: crack propagation prediction using PDE-based neural network
14:30-14:45	Hayoung Chung	Molecular dynamics study of Cu-Cu bonding for semiconductor packaging

14:45-15:15	<b>Break time</b>
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# Session Program

## Session 2A (Room 3), Chair: Prof. Yusuke Nabae

15:15-15:30	Byeongchan Lee	Development of polycrystalline virtual specimen generation code
15:30-15:45	Yoshitsugu Naka	Relation between turbulent flow structures and streaky patterns of wall scalar flux in an impinging round jet
15:45-16:00	Junyoung Park	The effect of toothbrush shape on non-carious cervical lesions using DEM and abrasion experiments
16:00-16:15	Yukinori Kametani	Shape optimization of heat transfer surfaces in turbulent flows for high-performance heat exchangers
16:15-16:30	Gang-Won Jang	Spring-Connected Link Model for Optimization-Based Mechanism Synthesis

## Session 2B (Room 4), Chair : Prof. Namkeun Kim

15:15-15:30	Kuniharu Ushijima	Optimal evaluation of the mechanical properties of lightweight lattice structures using CAE technology
15:30-15:45	Jaewook Lee	Multiscale topology optimization for design of spatially-varying lattice structures
15:45-16:00	Takayuki Yamada	Topology optimization in consideration of manufacturing processes by additional PDE models
16:00-16:15	Minho Yoon	Shape design optimization of anisotropic material problems using isogeometric BEM
16:15-16:30	Ryuichi Tarumi	Development of MPM simulator system for soft-robotic matters

16:45-17:00	<b>Closing Ceremony (Room A)</b>	
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