

Korean Sensors Society (KSS) & Regional Leading Research Center (RLRC)

2021 International Symposium on Advanced Sensor Technology

Advanced Sensor Technologies for Smarter Future

- Venue: Online (Zoom platform)

- Date: Mar 26, 2021 (Friday)

* Registration Period : Mar 9 ~ Mar 22, 2021

The importance of advanced sensor technologies is rapidly increasing in the era of Industry 4.0. The applications of smart sensors are expanding in a variety of industrial fields such as environmental, biomedical, healthcare, robot, AR/VR, and entertainment industries. In this symposium, we focus on the advanced sensor technologies in the aspects of materials, devices, and systems. By sharing the insights and knowledges of world-renowned experts, we discuss the future and find visions for the next generation sensors. The following list includes the topics for this symposium.

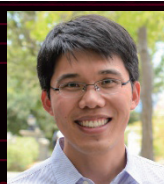
- Session 1: Advanced material/device technologies for biosensors
- Session 2: Advanced circuits/systems for smart sensors
- Session 3: Advanced material/device technologies for physical sensors
- Session 4: Advanced material/device technologies for chemical sensors

■ Schedule

Time (Korean Standard Time; KST)	Program
09:00-09:10	Opening Remarks & Introduction to KSS Prof. Jong-Heun Lee (Korea University), Chair of KSS
Session 1: Advanced material/device technologies for biosensors	
09:10-10:00	Skin-Interfaced Wearable Biosensors Prof. Wei Gao (California Institute of Technology, USA)
10:00-10:50	Life-saving biosensor systems for blood stream infection Prof. Sunghoon Kwon (Seoul National University, Korea)
10:50-11:00	Break Time
Session 2: Advanced circuits/systems for smart sensors	
11:00-11:50	Ultra-Low-Power Integrated Circuits and Physiochemical Sensors for Next-Generation "Unwearables" Prof. Patrick P. Mercier (University of California at San Diego, USA)
11:50-12:40	Integrated Circuits and Microsystems for Emerging Biomedical Applications Prof. Minkyu Je (KAIST, Korea)
12:40-13:30	Lunch Break
Session 3: Advanced material/device technologies for physical sensors	
13:30-14:20	Deformable Artificial Skins and Healthcare Sensors Prof. Unryong Jeong (POSTECH, Korea)
14:20-15:10	Self-Powered Sensors for Healthcare Applications Prof. Zong Hong Lin (National Tsinghua University, Taiwan)
15:10-15:20	Break Time
Session 4: Advanced material/device technologies for chemical sensors	
15:20-16:10	Ordered Mesoporous Semiconductor Metal Oxides for Gas Sensing Applications Prof. Yonghui Deng (Fudan University, China)
16:10-17:00	Ideas for specific, low-power and cost-effective chemical sensors Prof. J. Daniel Prades (University of Barcelona, Spain)
17:00-17:10	Closing Remarks

- Pacific Standard Time (PST) = KST -17
- China Standard Time (CST) = KST -1
- Central European Time (CET) = KST -8

■ Speakers



Prof. Wei Gao
(CALTECH, USA)



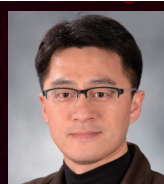
Prof. Sunghoon Kwon
(Seoul National Univ., Korea)



Prof. Patrick P. Mercier
(UC San Diego, USA)



Prof. Minkyu Je
(KAIST, Korea)



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(POSTECH, Korea)



Prof. Zong Hong Lin
(National Tsinghua Univ., Taiwan)



Prof. Yonghui Deng
(Fudan Univ., China)



Prof. J. Daniel Prades
(Univ. of Barcelona, Spain)

■ Registration

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- Registration Fee

	Member	Non-member
Regular	KRW 100,000	KRW 150,000
Student	KRW 80,000	KRW 100,000

- Registration Website : www.sensors.or.kr/85

■ Contact

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- Program Chair : Prof. Inkyu Park (KAIST) (Email: inkyu@kaist.ac.kr)