CV	
	Hee Yeoun Kim
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Country:	**South Korea**
Affiliation:	National Nanofab Center
Major Field:	MEMS/NEMS(Microbolometer, PZT device), Wafer-level Packaging
Brief Resume and Biography	Dr. Hee Yeoun Kim has received B.S. in Metallurgical Engineering from Hanyang University in 1990, followed by a M.S and Ph.D in Materials Engineering from Korea Advanced Institute of Science and Technology (KAIST) in 1993, 2005. Currently serving as the President of the Korean Sensor Society since 2024, he plays a pivotal role in shaping the direction of sensor technology in Korea. Additionally, he holds the position of Director at K-Sensor Commercialization Center in National Nanofab Center, contributing to the commercialization and advancement of sensor technologies. He has worked at Samsung Electromechanics Co. where he developed the micro-optical modulators from 2006 to 2008. Prior to that, he served as a Senior Researcher at the Agency for Defense Development, focusing on battery and materials development from 1993 to 2000. His main research results came from microbolometer development and commercialization and he achieved Minister's Award from the Korea Ministry of Trade, Industry, and Energy(MOTIE) in 2022, and the Contribution Award from the Korean Sensor Society in 2023. Recent his research interests are piezoelectric device development and wafer-level packaging of MEMS and quantum sensor. Ref. www.linkedin.com/in/hee-yeoun-kim-5795a81a

Abstract	
Title	**Bridging the gap between research and prototyping in MEMS technology**
Abstract	Although the application of MEMS technology is expanding from niche markets such as military and aerospace in the past to smartphones, mobilities, and home appliances, the standardization of design and processes to support small-scale fabrication of various types is a challenging work. It is true that MEMS sensors need to develop various materials, processes, and packaging for each product due to their different requirements, so there has been a limit to using the development strategies of scale. Process standardization is very important not only for MEMS sensor designers, but also for the commercialization of products and market expansion. In this presentation, for the commercialization of such MEMS sensors, the development status of the sensor platform of Korea's nano-infrastructure is to be introduced. In addition, I would like to introduce the future tasks to be done for convergence with artificial intelligence and quantum technology.