Professor Young-Jin KIM

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Prof. Kim is currently is a full tenured professor in the Department of Mechanical Engineering and Department of Aerospace Engineering in KAIST, Republic of Korea. He received his B.S., M.S., and Ph.D. degrees from KAIST in 2002, 2004, and 2008, respectively. He worked as a postdoctoral research associate and research professor in KAIST by 2014. He joined Nanyang Technological University (NTU), Singapore as a Nanyang Assistant Professor and NRF Fellow from 2014 to 2019. He has published 150+ peer-reviewed journal papers and 500+ conference papers; his h-index is 45 with 10,311 citations.

His research interests are on ‘Ultra-Precision Metrology and Manufacturing (UPM2) technologies using ultrafast femtosecond laser pulses’. Detailed research topics include high-precision dimensional metrology for semiconductor, flat panel display, and precision-engineering products, precision laser manufacturing of flexible/stretchable electronics/optics, and next-generation space metrology missions including high-precision laser ranging for formation-flying satellites, broadband spectroscopy, and high-density free-space communication.

He is the recipient of Young Scientist Award by Korean President 2021, of Baekam Best Paper Award by the Korean Society of Precision Engineering 2024, KAIST Global Research Cooperation Award 2024, KAIST Technology Innovation Award 2023, Optical Technology Innovation Award by OSK 2021, IJPEM-GT Highly Commended Paper Award 2019, Outstanding Presenter Award 2019, Young Researcher Award 2018 and so on. He is the associate member of CIRP (The International Academy for Production Engineering), the member of Y-KAST (Young Korean Academy of Science and Technology), editorial director of Korean Society of Precision Engineering (KSPE), organizing director of Korean Society of Mechanical Engineers (KSME), Editorial Board Member of Virtual and Physical Prototyping published by Taylor & Francis (Impact Factor: 10.60), Editorial Board Member of International Journal of Precision Engineering and Manufacturing (IJPEM) published by Korean Society of Precision Engineering (KSPE), Topical Editor of Current Optics and Photonics (COPP) published by Optical Society of Korea (OSK), Editor of Micro & Nano Manufacturing published by Springer. He has served as a committee member of various international conferences and workshops, such as Conference on Lasers and Electro-Optics (CLEO), CLEO-Pacific Rim, International Symposium on Measurement Technology and Intelligent Instruments, ISMTII, PHOTOPTICS, IEEE icOPEN, Advanced Laser and Photon Sources (ALPS).