



Department of  
Mechanical Engineering  
The University of Hong Kong



**SEMINAR**  
**(onsite and online)**

**Advanced 3d printing technologies for 3D architected solids  
and their sensing applications**

**Date:** 1 March, 2024 (Friday)  
**Time:** 2:30 p.m. (Hong Kong Time)  
**Venue:** CPD-2.39, Centennial Campus  
HKU



**Speaker:** Professor Woo Soo Kim  
School of Mechatronic Systems Engineering  
Simon Fraser University BC Canada

**Join Zoom Meeting**

<https://hku.zoom.us/j/98566763834?pwd=N1FzUmVXOHJMVUp4eW1GUGswN0hkUT09>

**Meeting ID:** 985 6676 3834  
**Password:** 533929

**Abstract:**

I'll introduce and discuss recent research activities of the Additive Manufacturing Laboratory in Simon Fraser University, Canada. 3D printing can generate custom designs of complex 3D form factors that enable electronics to be integrated into unique places. Design, fabrication, and characterization of 3D printed sensor systems including mechanical sensors, and 3D printed circuit boards for portable sensing applications will be discussed. Especially, advanced 3D printing technologies such as newly developed collaborative robot 3D printing and creation of various architecture solids will be discussed for the demonstration of 3D structural electronics in the applications of wearables and sensing robots.

**Biography:**

Dr. Woo Soo Kim is Full Professor of the School of Mechatronic Systems Engineering in Simon Fraser University (SFU), Canada. Prior to joining SFU, he was a Senior Research Scientist in Xerox Corporation (XRCC) for two years after the period of a Post-doctoral Research Associate in Massachusetts Institute of Technology (MIT) for two and half years. He received BSc degree from Yonsei University in 2001, and MSc and PhD degrees from Korea Advanced Institute of Science and Technology (KAIST). He was the winner of Quadrant Award 2007, international PhD thesis competition. He received Hanwha Corporation's New Faculty Award in 2016. His research interest is broad in the field of advanced 3D printing for sensing applications. He currently serves Scientific Director of B.C. Centre for Agritech Innovation. Lab webpage: [www.sfu.ca/~woosook](http://www.sfu.ca/~woosook)

**ALL INTERESTED ARE WELCOME**

**For further information, please contact Prof. J.T. Kim at 3917 2631.**