

Signal and Data Science for Physiological Forensics

Date: 19 January 2022 (Wednesday)

Time: 10:00am - 11:00am

Seminar link: <https://cityu.zoom.us/j/99876338116>



ABSTRACT

Many nearly invisible “micro-signals” have played important roles in media security and forensics. Traditionally regarded as noise or interference, these micro-signals are ubiquitous and typically an order of magnitude lower in strength than the dominant ones. Micro-signals have been harnessed to carry out many emerging forensic studies, including those related to inferring a person’s heartbeat, breathing, and other physiological conditions. This talk will discuss the connections of signal forensics for security versus physiological inferences for public health, and highlight the essential roles and opportunities of signal and data science in this line of R&D.



Prof Min WU GUEST SPEAKER'S PROFILE

Min Wu is a Professor of Electrical and Computer Engineering and a Distinguished Scholar-Teacher at the University of Maryland, College Park, and Associate Dean of Engineering for Graduate Affairs. She received the B.E. degree in electrical engineering -- automation and the B.A. degree in economics from Tsinghua University, Beijing, China, in 1996 with the highest honors, and her Ph.D. degree in electrical engineering from Princeton University in 2001. At UMD, she leads the Media, Analytics, and Security Team (MAST), with main research interests on information security and forensics, multimedia signal processing, and applications of data science and machine learning for health and IoT. Dr. Wu was elected as IEEE Fellow, AAAS Fellow, and Fellow of the National Academy of Inventors, and received several other awards. She was a founding member of APSIPA and elected to serve on its Board of Governors. She chaired the IEEE Technical Committee on Information Forensics and Security, and served as Editor-in-Chief of the IEEE Signal Processing Magazine. Currently, she is President-Elect (2022-2023) of the IEEE Signal Processing Society.