



**ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΙΡΑΙΩΣ  
ΣΧΟΛΗ ΧΡΗΜΑΤΟΟΙΚΟΝΟΜΙΚΗΣ ΚΑΙ ΣΤΑΤΙΣΤΙΚΗΣ  
ΤΜΗΜΑ ΣΤΑΤΙΣΤΙΚΗΣ ΚΑΙ ΑΣΦΑΛΙΣΤΙΚΗΣ ΕΠΙΣΤΗΜΗΣ**

**ΠΡΟΣΚΛΗΣΗ**

Σας προσκαλούμε στη **διαδικτυακή ομιλία** του

**Professor Mr. Kwok L Tsui**  
**Grado Department of Industrial and Systems Engineering**  
**Virginia Polytechnic Institute and State University**

η οποία θα διεξαχθεί

την Παρασκευή 19 Φεβρουαρίου 2021 και ώρα 16:00-17:00,

μέσω της εφαρμογής MsTeams, με θέμα:

**«Systems Health Monitoring and Management»**

Due to the advancement of computation power, sensor technologies, and data collection tools, the field of systems health monitoring and management have been evolved over the past several decades with different names under different application domains, such as statistical process control (SPC), process monitoring, health surveillance, prognostics and health management (PHM), engineering asset management (EAM), personalized medicine, etc. There are tremendous opportunities in interdisciplinary research of system monitoring through integration of SPC, system informatics, data analytics, PHM, and personalized health management. In this talk we will present our views and experience in the evolution of systems monitoring and health management, its challenges and opportunities, as well as its applications in both machine systems health management as well as human health management.

**Bio:** Kwok L Tsui is professor in the Grado Department of industrial and Systems Engineering at Virginia Polytechnic Institute and State University. Prior to that, Dr. Tsui was chair professor of School of Data Science and Department of Systems Engineering and Engineering Management at City University of Hong Kong in 2009-2020 (as head in 2011-17); professor/associate professor in the School of Industrial and Systems Engineering at Georgia Institute of Technology in 1990-2011; and member of technical staff in the Quality Assurance Center at AT&T Bell Labs in 1986-1990. He received his Ph.D. in Statistics from the University of Wisconsin at Madison. Tsui was a recipient of the National Science Foundation Young Investigator Award. He is Fellow of the American Statistical Association, American Society for Quality, International Society of Engineering Asset Management, and Hong Kong Institution of Engineers; elected council member of International Statistical Institute; and U.S. representative to the ISO Technical Committee on Statistical Methods. Tsui was the Founding Chair of the INFORMS Section on Data Mining, and Chair of the Section on Quality, Statistics, and Reliability. Tsui's current research interests include data science and data analytics, surveillance in healthcare and public health, personalized health monitoring, prognostics and systems health management, calibration and validation of computer models, process control and monitoring, and robust design and Taguchi methods.

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