

## **Seminar Talk**

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**Tuesday, October 03, 2017**  
**3:00 p.m. KH 224**

**Title:** Cyber Analysis, Simulation and Experimentation Environment

**Abstract:**

The Center of Excellence in Cyber Security at Norfolk State University, in collaboration with Old Dominion University and Air Force Research Lab/Rome, is developing a cloud-enabled, big-data- analytics-capable Cyber Analysis, Simulation and Experimentation Environment (CASE-V) for enhancing situational awareness and decision support for cyber defense and cyber training, especially for countering future advanced threats. In this talk, we will first present an overview of the research program, research thrusts, and research activities currently underway at the Center. We will then discuss in more detail the design and implementation of the foundational cloud computing and big data analytic platforms, and the application-level capabilities such as malware classification using machine learning techniques, learning and experimentation environments for advanced persistent threats, simulated attacker, etc.

**Bio:**

Dr. Chung-Chu (George) Hsieh is a Professor of Computer Science at Norfolk State University (NSU) in Norfolk, Virginia. He serves as the Principal Investigator for the Center of Excellence in Cyber Security at NSU (\$4.98M, 2015-2020, Department of Defense) which includes ODU as an academic collaborator, and a Co-PI for the Consortium for K-20 Cybersecurity Workforce Pipeline (\$25M, 2014-2019, Department of Energy). Prior to joining NSU in 2002, George Hsieh worked at Bell Laboratories of AT&T and Lucent Technologies from 1982 to 2001 as a member of technical staff, senior manager, and director for applied research and product development. During these years, he had a variety of technical and management responsibilities, including technology and product planning and development, organization and project management, and business development. George Hsieh received his Ph.D. and M.S. in Computer Science degrees from Northwestern University in 1982 and 1980, respectively, and B.S. in Nuclear Engineering degree from National Tsing Hua University in Taiwan, R.O.C. in 1973. His current research interests include cybersecurity, cloud computing, and big data analytics. George Hsieh is a member of IEEE Computer Society, ACM, Tau Beta Pi, and Upsilon Pi Epsilon.