



**Graduate Seminar (EEL 6936)**  
**Department of Electrical Engineering**  
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Friday, October 7, 2016, 2:00 p.m. - 3:00 p.m.  
Engineering Building II (ENB) Room 118

## **Socially Enabled Wireless Networks**

### **Abstract**

Emerging online social networks significantly change the way of content distribution and information dissemination, while the traffic of social networks has dominated Internet traffic in the mobile communication networks. Therefore, it is vital to design future wireless networks and 5G mobile communications by properly leveraging the properties of social networks. In light of the interplay between social network and technological networks, we shall further look into the fundamentals of network science and subsequent social network analysis, and the abstract ways to utilize the nature of social networks to design wireless networks, while supplying with successful engineering examples. Various aspects from analysis and system applications, particularly IoT/CPS, cellular networks, cybersecurity, and data analytics will be presented. It shall open a new scenario and subsequently paradigm shift in the technology development of wireless networks and wireless communications to better meet the expectation from users.



### **Biography**

Dr. Chen received the B.S. from the National Taiwan University in 1983, and the M.S. and Ph.D from the University of Maryland, College Park, in 1987 and 1989, all in electrical engineering. From 1987 to 1998, Dr. Chen worked with SSE, COMSAT, IBM Thomas J. Watson Research Center, and National Tsing Hua University, in mobile communications and networks. From 1998 to 2016, Dr. Chen was with the National Taiwan University, Taipei, Taiwan, ROC. After serving as the Director, Graduate Institute of Communication Engineering, Communication Research Center, and the Associate Dean for Academic Affairs, as a Distinguished Professor, he visited the Massachusetts Institute of

Technology during 2015-2016. Since 2016, Dr. Chen is a Professor with the Department of Electrical Engineering, University of South Florida, Florida, USA. He has been actively involving in the organization of various IEEE conferences as General/TPC chair/co-chair, and has served in editorships with a few IEEE journals. Dr. Chen also actively participates in and has contributed essential technology to various IEEE 802, Bluetooth, and LTE and LTE-A wireless standards, to benefit billions of users. He founded a wireless IC design company in 2001, which was acquired by the Mediatek Inc. in 2004. Dr. Chen is an IEEE Fellow and has received a number of awards such as the *2011 IEEE COMSOC WTC Recognition Award*, *2014 IEEE Jack Neubauer Memorial Award* and *2014 IEEE COMSOC AP Outstanding Paper Award*. His recent research interests include wireless communications, cybersecurity, cyber-physical systems, social networks and data science.