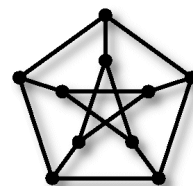


Computationally Speaking

Seminar Series



Title: **Measuring Low-Earth Orbit Satellite Networks**

Speaker: Dr. Jianping Pan

Where: Reynolds 1101

When: **Thursday February 12th, 2:00 – 3:00pm**

Abstract: Starlink and alike have attracted a lot of attention recently, however, the inner working of these low-earth-orbit (LEO) satellite networks is still largely unknown. This talk presents an ongoing measurement campaign focusing on Starlink and OneWeb, including their satellite access networks, gateway and point-of-presence structures, and backbone and Internet connections, revealing insights applicable to other LEO satellite providers. It also highlights the challenges and research opportunities of the integrated space-air-ground-aqua network envisioned by 6G mobile communication systems and calls for a concerted community effort from practical and experimentation aspects.

About the Speaker: Dr. Jianping Pan is a professor of computer science at the University of Victoria, British Columbia, Canada. He received his Bachelor's and PhD degrees in computer science from Southeast University, Nanjing, Jiangsu, China, and he did his postdoctoral research at the University of Waterloo, Ontario, Canada. He also worked at Fujitsu Labs and NTT Labs. His area of specialization is computer networks and distributed systems, and his current research interests include protocols for advanced networking, performance analysis of networked systems, and applied network security. He received IEICE Best Paper Award in 2009, Telecommunications Advancement Foundation's Telesys Award in 2010, WCSP 2011 Best Paper Award, IEEE Globecom 2011 Best Paper Award, JSPS Invitation Fellowship in 2012, IEEE ICC 2013 Best Paper Award, NSERC DAS Award in 2016, IEEE ICDCS 2021 Best Poster Award and DND/NSERC DGS Award in 2021, and has been serving on the technical program committees of major computer communications and networking conferences including IEEE INFOCOM, ICC, Globecom, WCNC and CCNC. He was the Ad Hoc and Sensor Networking Symposium Co-Chair of IEEE Globecom 2012 and an Associate Editor of IEEE Transactions on Vehicular Technology. He is a senior member of the ACM and a Fellow of the IEEE.