Lian Zhao <l5zhao@torontomu.ca>

Realizing VLC for Future Wireless Systems: A Machine Learning Approach

IEEE eNotice <enotice@enotice.ieee.org>   Mon, Nov 6, 2023 at 3:46 PM
Reply-To: Hadeel Mohammed <hadeel.mohammad@mail.utoronto.ca>
To: l5zhao@ryerson.ca

If you are having trouble reading this message, click here for the web version.

The world's largest technical professional organization dedicated
to advancing technology for the benefit of humanity

◆IEEE

To view complete details for this event, click here to view the announcement

REALIZING VISIBLE LIGHT COMMUNICATION FOR FUTURE WIRELESS SYSTEMS: A MACHINE LEARNING APPROACH

As a well recognized disruptive technology, visible light communication (VLC) delivers high data rates and improved security to be actively considered for many new indoor and outdoor applications in future wireless communication systems. Over the years, VLC system modeling, analysis and implementation have been an active research field enriched with multiple seminal developments reported in the literature. More recently, data-driven machine learning techniques have emerged to revolutionize conventional communication system design and optimization. In this talk, we will discuss how such machine learning techniques can be effectively applied for the design and optimization of VLC systems including examples taken from spatial modulation in VLC, simultaneous lightwave and power transfer (SLIPT) and intelligent reflective surface aided VLC systems.

Date and Time

New Date: **07 Nov 2023**
Time: **10:00 AM to 11:00 AM**
All times are (UTC-05:00) Eastern Time (US & Canada)
➕ Add Event to Calendar
📅 iCal
📅 Google Calendar

Location

https://torontomu.zoom.us/my/xavierfernando

Hosts

Toronto Section Chapter, COM19/BT02
Toronto Chp, VT/CIS/IT12/UFFC/OE22/CS/GRS/ITS/BIO
Contact Event Hosts

Registration

Starts **03 October 2023 01:30 PM**
Ends **07 November 2023 10:00 AM**
All times are (UTC-05:00) Eastern Time (US & Canada)
No Admission Charge

Registration Closed

Speakers

Himal A. Suraweera

Biography:

Himal A. Suraweera received the B.Sc. Eng. (Hons.) degree from University of Peradeniya, Sri Lanka, in 2001, and the Ph.D. degree from Monash University, Australia, in 2007. He is currently a Senior Lecturer with the Department of Electrical and Electronic Engineering, University of Peradeniya.

He was a recipient of the 2017 IEEE ComSoc Leonard G. Abraham Prize, the IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award in 2011, the WCSP Best Paper Award in 2013, and the SigTelCom Best Paper Award in 2017. He served as an Editor of the IEEE Transactions on Wireless Communications (2014-2019), IEEE Transactions on Green Communications and Networking (2017-2021) and IEEE Communications Letters (2010-2015). Currently, he is serving as an Editor of the IEEE Transactions on Communications and the IEEE Open Journal of the Communications Society.

His research interests include cooperative relay networks, full-duplex wireless techniques, multiple-input multiple-output systems, energy-efficient wireless communications, visible light communication, and machine learning.

Toronto Section : https://www.ieeetoronto.ca/

Manage your IEEE Communication Preferences at the IEEE Privacy Portal

IEEE • 445 HOES LANE • PISCATAWAY, NJ 08854 USA