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Resources for All VTS Members

This time of year is special for the IEEE Vehicular Technology Society (VTS). We will recognize this year's VTS Award recipients at the 98th Annual IEEE Vehicular Technology Conference held in Hong Kong (VTC2023-Fall). We will also bring together engineers, researchers, and other professionals at the 2023 IEEE Vehicle Power and Propulsion Conference (VPPC) to be held in Milan, Italy. I hope we will see you at either or both conferences.

One of the benefits that the VTS is committed to providing members is continuing education from reputable experts in the VTS fields of interest: land transportation, mobile radio, and motor vehicles. The IEEE VTS Resource Center provides valuable and up-to-date video content, including conference keynote presentations from prominent researchers and technical leaders, recordings of Distinguished Lectures or other VTS events, and educational videos. It covers a wide range of topics from emerging technologies to educational training modules in mobile communications and networks, vehicular electronics, and land transportation. Based on the usage analytics, our top ten popular video topics include

- Electrified vehicle technologies: A road path towards zero emissions
- Multi sensor data fusion for self driving cars
- 48V mild hybrid vehicle systems
- Advanced data analysis for train resource planning with Python
- VANET Toolbox: A vehicular network simulator based on discrete event system (DES)
- Security and privacy of connected and automated vehicles
- Dependable wireless vehicular communications: Why and how
- Overview of railway communications: Technologies & services
- Fundamentals of battery electric and hybrid vehicle machines and drives
- A primer on Wi-Fi 7.

Additionally, we aim to continue generating/posting new videos in the areas of

- Electric and hybrid vehicle technologies
- Automated vehicle technologies
- Security and privacy of connected vehicles
- Artificial intelligence/machine-learning-driven vehicular communications
- 5G/6G for connected and automated mobility
- Semantic communications.

Videos in the resource center are available at no cost to VTS members and can be accessed through an IEEE account at https://resourcecenter.vts.ieee.org/.

The IEEE VTS Education Committee is working diligently to develop and implement educational activities for VTS members, especially for students and young professionals (YPs), aiming to promote active student/YP participation in VTS events, improve student/YP engagement with IEEE VTS, and support career preparation and professionalenhancement.TheEducation Committee is chaired by Dr. Ping Wang, associate professor at the

IEEE VTS Education Committee

Dr. Ping Wang
York University, Canada

Dr. Celimuge Wu
The University of Electro-Communications, Japan

Dr. Chuan Heng Foh
University of Surrey, UK

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Department of Electrical Engineering and Computer Science, York University, and a Tier 2 York Research Chair. She is a Fellow of IEEE and a VTS Distinguished Lecturer. She also serves as the editor in chief (EiC) for the IEEE VTS Resource Center and served/is serving as an associate EiC for *IEEE Communications Surveys & Tutorials*, an editor for several reputed journals including *IEEE Transactions on Wireless Communications*, and a symposium cochair for numerous international conferences.

The planned activities of the Education Committee include

- Engaging students through global competitions held in VTS flagship conferences, with conference travel grants for the winning teams
- Offering educational training/mentoring programs with themes of interest to VTS student/YP members, such as seminars for career preparation and job hunting skills
- Collaborating with other committees (e.g., YPs and Women in Communications Engineering) to develop joint events that benefit students/YPs for their professional growth.

At VTC2023-Spring, the committee organized an education activity session for students/YPs who attended the conference.

At VTC2023-Spring, the committee organized an education activity session for students/YPs who attended the conference. The session began with an introduction on how the VTS can support students and YPs in their career development and was followed by an interactive networking session with topics of interest, such as ChatGPT. A survey was conducted to collect feedback from the participants on how the VTS Education Committee can provide better services to and address the needs of our student members and YPs.

As always, I would like to know how the VTS can better serve you. Please do not hesitate to contact me with your ideas, suggestions, comments, questions, or concerns. Working hard together, we will make the VTS better and stronger. I hope to see you at VTC2023-Fall and IEEE VPPC 2023! VT

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