



**IEEE
Connected &
Autonomous
Vehicles**

In 2015, VTS launched its Connected and Autonomous Vehicles Initiative, a special initiative to create communities, disseminate knowledge, and contribute to standards in this area, which is a key area of innovation at the heart of the society's field of interest.



Land Transportation

- Intelligent transportation systems
- Wireless/mobile system applications for transportation control & routing
- Railroad signaling
- Digital maps and location technologies
- Green ITS navigation for people and freight
- Mobile/wireless systems for transportation logistics
- Wireless/mobile systems for multi-modal transportation

Motor Vehicles

- Connected and autonomous vehicles
- Vehicle traction power control/conversion
- Vehicle power systems
- Vehicle stability controls
- Safety control systems
- In-car electronics and embedded integration
- Drive-by-wire controls
- HCCI controls
- Electromagnetic valve controls
- Smart speed controls
- Car-to-Car security

Wireless Communications

- Cellular networks
- Ad-Hoc and sensor networks
- Antennas, propagation, and RF design
- Cognitive radio and spectrum sensing
- Cooperative communications
- Multiple antenna systems and services
- Satellite networks and positioning technologies
- Wireless network security
- Next generation wireless networks

Technical Fields of IEEE VTS



IEEE Vehicular Technology Society

The applications-oriented society of IEEE supporting

Mobility Technologies

Transportation • Vehicles • Communications



Membership Benefits & Services

VTS boasts over 4400 members worldwide. The annual cost of membership is under \$20 for students and IEEE members, and includes:

Local VTS Chapter Involvement

VTS has ~50 regional chapters, with 55% of VTS membership belonging to one of these chapters. These local chapters collectively hold 200-250 meetings per year, and are a great way for VTS members to network with each other within a geographical area. Furthermore, only VTS local chapters have access to the VTS Distinguished Lecturer program, one of the largest in IEEE, with over 50 world-class speakers ready to provide lectures to VTS chapters around the world.

Eligibility for Volunteering Opportunities

Only VTS members are eligible to volunteer for the numerous society activities, ranging from the VTS Board of Governors to organizing a VTS conference to the formation of a VTS local chapter.

Free VT Magazine Subscription

All VTS members receive a print copy of the Vehicular Technology Magazine, containing not only survey and tutorial articles, but also quarterly columns on the different areas of interest to our members.

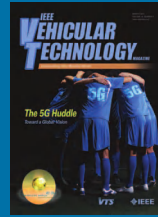
Fee Discount for VTS-Sponsored Conferences

All VTS members receive discounted conference registration fees for VTS-sponsored conferences, including the flagship Vehicular Technology Conference series held twice a year.

Access To Educational Video Modules

The VTS Education Committee regularly creates new educational video modules for members, with new content delivery models to be developed in 2015.

And much more... Join VTS today!
<http://join.vtsociety.org>



The IEEE Transactions on Vehicular Technology (TVT)—the main journal publication of VTS—is a premier peer-reviewed technical publication that attracts high-quality, technically relevant research material.

VTS co-sponsors several other publications, including the IEEE Wireless Communications Letters and the new IEEE Transactions on Big Data. VTS also produces the widely read quarterly publication, IEEE Vehicular Technology Magazine.



Technical Conferences & Events

Vehicular Technology Conference (VTC) travels the world twice a year attracting engineers, scientists, and technologists to meet and exchange ideas, network, and present their latest findings.

Vehicle Power and Propulsion Conference (VPPC) is our flagship conference on motor vehicles, with an emphasis on clean energy and electric vehicles.

International Symposium on Wireless Vehicular Communications (WiVec) grows with the importance of connected vehicles in today's society.

Connecting the Mobile World