

Scope of the IEEE Transactions on Vehicular Technology

(as approved by the Technical Activities Board (TAB) and the Periodicals Committee)

The IEEE Transactions on Vehicular Technology is dedicated to the publication of peer-reviewed original contributions of research regarding the theory and practice of electrical and electronics technology in vehicles and vehicular systems. The intended audience is comprised of engineers, researchers, educators, and graduate students of vehicular technology concepts and theory in academia, industry, and government. The scope of the Transactions is threefold (which was approved by the IEEE Periodicals Committee in 1967) and is published on the journal website as follows:

Communications: The use of mobile radio on land, sea, and air, including cellular radio, two-way radio, and one-way radio, with applications to dispatch and control vehicles, mobile radiotelephone, radio paging, and status monitoring and reporting. Related areas include spectrum usage, component radio equipment such as cavities and antennas, compute control for radio systems, digital modulation and transmission techniques, mobile radio circuit design, radio propagation for vehicular communications, effects of ignition noise and radio frequency interference, and consideration of the vehicle as part of the radio operating environment.

Transportation Systems: The use of electronic technology for the control of ground transportation systems including, but not limited to, traffic aid systems; traffic control systems; automatic vehicle identification, location, and monitoring systems; automated transport systems, with single and multiple vehicle control; and moving walkways or people-movers.

Vehicular Electronics: The use of electronic or electrical components and systems for control, propulsion, or auxiliary functions, including but not limited to, electronic controls for engine, drive train, convenience, safety, and other vehicle systems; sensors, actuators, and microprocessors for onboard use; electronic fuel control systems; vehicle electrical components and systems collision avoidance systems; electromagnetic compatibility in the vehicle environment; and electric vehicles and controls.

In order to achieve its purpose, the Transactions receives and processes original contributions, for potential publication, from researchers, educators and students in the areas of vehicular technologies. The contributions can be conceptual, theoretical, or experimental.

Two types of manuscripts are considered for publication.

The publication categories are: Papers presenting the results of on-going or completed research, novel applications or tutorial summaries of the state of the art in engineering and technology; Correspondence presenting short original contributions,

commenting on papers previously published, posing critical implementation problems, discussing experiences using published results, and reporting on successful and unsuccessful applications of engineering and technology concepts and methodologies.

The audience of the Transactions on Vehicular Technology is predominantly the scholarly community conducting research on various aspects of engineering and technology in academic institutions, industrial organizations, research centers and government agencies.