

IIT MADRAS Technology Transfer Office TTO - IPM Cell



Industrial Consultancy & Sponsored Research (IC&SR)

SYSTEM AND METHOD FOR CONTROLLING VEHICLE MOTION IN A SIMULATION ENVIRONMENT ITM Technology Available for Licensing

Problem Statement

Indian Institute of Technology Madras

- The problem statement discussed in the present invention is how to overcome the limitation by using Wi-Fi which is higher bandwidth & many number of protocols available.
- □ Hence, subject invention addresses the issue efficiently

Technology Category/ Market

Technology: System & method for controlling vehicle motion in a simulation environment Industry/Application: Automobiles/ Transportations, Robotics, Automotive; Market: The global motion simulation market is projected to reach at a CAGR of 5% during the period (2024-32).

TRL (Technology Readiness Level)

TRL-4, Technology validated in Lab;

Technology

- Present patent describes to a system and method for controlling vehicle motion in a simulation environment.
- Vehicle models comprises sensors for sensing parameters associated with the vehicle model. The parameters are shared with a ground station server.
- □ The ground station server transmits a control command to the vehicle model in response to the parameters for **optimizing** the simulation of the vehicle model.
- **Communication channel** establishes a communication between the vehicle model and the ground station server.
- System may be useful in a physical simulation of ship model for hydrodynamic studies in towing tanks, wave basins and wave flumes.

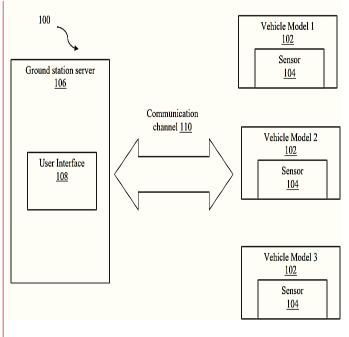


Fig.1 illustrates a block diagram of a system for controlling vehicle motion in a simulation environment,

□ The claimed invention is based on the use of Wi-Fi with high bandwidth ጲ available protocols. It provides an excellent feature of server client configuration where it allows more than one vehicle to be controlled from single shore station.

Intellectual Property

IITM IDF Ref. 1450; Patent No. 509944 PCT Application No. PCT/IN2017/050553

Research Lab

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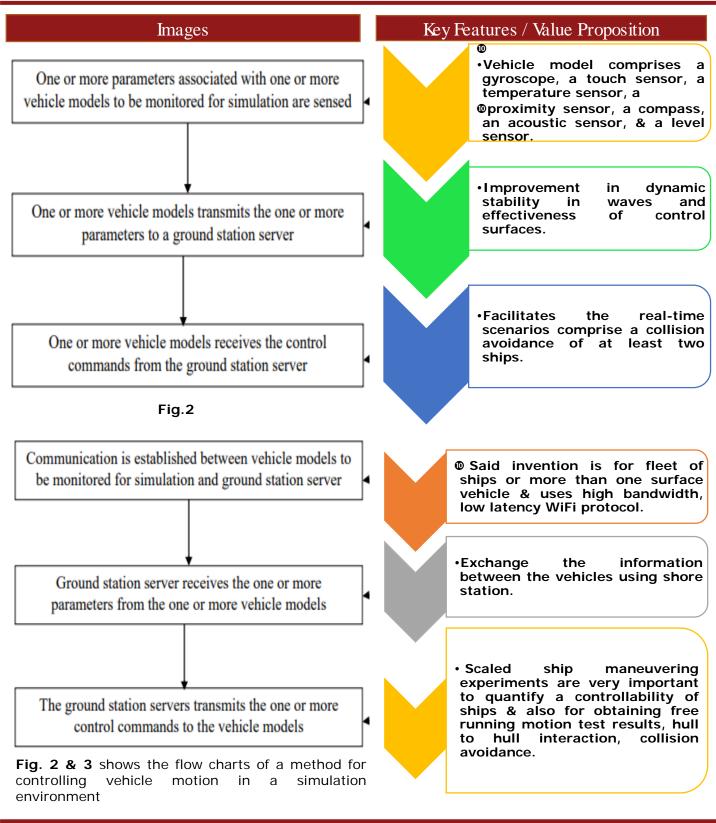


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