

CC7. Transportation and Vehicle Systems

At the time of submission of your paper in PaperPlaza, by first selecting "Transportation and Vehicle Systems", the following keywords in the right column will be listed. By selecting one of them as your "1st keyword", your paper will be handled and reviewed by the members of the IFAC Technical Committee (TC) shown in the left column. For more on Technical Committees under this theme, please see <https://tc.ifac-control.org/7>.

TC Name	Keywords
7.1. Automotive Control	Adaptive and robust control of automotive systems
	Automotive sensors and actuators
	Automotive system identification and modelling
	Control architectures in automotive control
	Distributed discrete-event systems
	Electric and solar vehicles
	Engine modelling and control
	Fuel cells for automotive applications
	General automobile/road-environment strategies
	Hybrid and alternative drive vehicles
	In-vehicle communication networks
	Information displays/system
	Integrated traffic management
	Intelligent driver aids
	Kalman filtering techniques in automotive control
	Man-machine interfaces
	Modeling, supervision, control and diagnosis of automotive systems
	Nonlinear and optimal automotive control
	System integration and supervision
	Vehicle dynamic systems
7.2. Marine Systems	Acoustic-based networked control and navigation
	Adaptive and robust control in marine system
	Autonomous surface vehicles
	Autonomous underwater vehicles
	Control architectures in marine systems
	Cooperative control
	Coordinated control
	Decision support systems in marine systems
	Dynamic positioning
	Fuzzy logic in marine systems
	Genetic algorithms in marine systems
	Kalman filtering techniques in marine systems control
	Marine system identification and modelling
	Marine system navigation, guidance and control
	Neural networks
	Nonlinear and optimal marine system control
	Sensors and actuators
	Unmanned marine vehicles
7.3. Aerospace	Autonomous systems
	Avionics and on-board equipments
	Control of systems in vehicles
	Decision making and autonomy, sensor data fusion
	Flight dynamics identification, formation flying
	Guidance, navigation and control of vehicles
	Health monitoring and diagnosis
	High accuracy pointing
	Man-in-the-loop systems
	Micro-nano-aerospace vehicles/satellites
	Mission control and operations
	Space exploration and transportation
7.4. Transportation Systems	Artificial intelligence in transportation
	Autonomous mobility
	Control and scheduling of air transportation
	Cooperative logistics
	Design, control and monitoring of autonomous transportation systems
	Energy control in transportation
	Formal methods in transportation
	Human factors in traffic and transportation control
	Intelligent Transportation Systems
	Maritime transportation planning and control
	Modelling and control of road traffic networks

	Monitoring of transport systems
	Multimodal transport modelling, monitoring and control
	Planning and control problems in freight transportation networks
	Planning and management of ports and terminals
	Planning and management of public transportation
	Rail transportation modelling and control systems
	Safety and security in transportation systems
	Scheduling and optimization of transportation systems
	Sensor technologies for control in transportation
	Simulation tools and commercial software
	Technologies for control in transportation
	Unmanned traffic management systems
	Urban mobility systems
7.5. Intelligent Autonomous Vehicles	Autonomous mobile robots
	Autonomous vehicles
	Cooperative navigation
	Cooperative perception
	Decentralized control and systems
	Fault detection, diagnosis, identification, isolation and tolerance for autonomous vehicles
	Human and vehicle interaction
	Learning and adaptation in autonomous vehicles
	Localization
	Map building
	Mechanical design of autonomous vehicles
	Mission planning and decision making
	Motion control
	Multi-vehicle systems
	Navigation, guidance and control
	Networks of robots and intelligent sensors
	Positioning systems
	Robot navigation, programming and vision
	Sensing
	Sensor integration and perception
	Teleoperation
	Trajectory and path planning
	Trajectory tracking and path following