

## Open Invited Session: Controls for Connected and Autonomous Vehicles at the IFAC World Congress in Berlin 2020

Control systems play a fundamental role in today's vehicles and are necessary for achieving clean and efficient propulsion of vehicles. In particular, they are critical for achieving the emission legislations, without the onboard control systems the legislations on low emissions couldn't be achieved and we wouldn't be allowed to drive cars and trucks on the road. Control is also critical for active safety and driver support systems that are evolving into auto pilots and autonomous vehicles. The development of future systems relies on people from different disciplines meeting and communicating to find solutions to the complex problems these systems pose. To support this development the IFAC World Congress is inviting researchers and engineers to meet and participate in several planned sessions controls for clean, efficient, and safe transportation with connected and autonomous vehicles. Papers can be on subjects related to vehicle/powertrain controls that could utilize information in connected and autonomous vehicles, up to control of vehicle trajectories, cooperative vehicles, and traffic systems in the same. It is beneficial if the papers discuss the connection between control, planning, and autonomy. The idea is to include papers that touch several IFAC TC areas and give a meeting point that promotes information exchange. Therefore, the arrangement of the session will be planned together with the TC areas and the session will be arranged to also fit their sessions.