



Collaborative Vehicular Systems

Vision: A network of human driven, semi-autonomous and fully autonomous cars moving in a transportation network in a safe and efficient way

Objective: To establish the fundamental principles of a network of Cyber-Physical Systems (CPS), including the development of

1. A framework establishing a "language" to describe rules and conditions of interactions between autonomous and human-controlled systems, focusing on roadway transportation as the application area
2. Hierarchical design architectures to address scalability concerns
3. Testable and verifiable solutions and investigation of performance through semi-virtual environments and scenarios

- Funded by the National Science Foundation
- In collaboration with Arizona State University
- Three years, \$685,000 (Ohio State budget)
- Follows previous 4 year CPS program

