

Bruce L Mehler

Psychophysiology on the Road: Research Themes, Measures and Future Applications

This talk will provide a selective overview on the use of psychophysiological measures as research tools in the transportation environment, i.e. how they have been used to study stress, workload, roadway characteristics, driver behavior, user interface design, etc. The emphasis will be on work carried out in “tire” based transport (cars, trucks, buses), but the methodologies are largely applicable to other transport contexts as well (rail, aviation, shipping). As time allows, the presentation will also consider work that is looking into the possible integration of psychophysiological monitoring methods into future production driver state sensing, workload monitors, and health monitoring applications.