Max Donath Bio

Max Donath is Director of the Intelligent Transportation Systems Institute at the University of Minnesota, a congressionally designated University Transportation Center. The ITS Institute, under his direction since 1997, involves 30+ faculty, 15+ staff researchers and 100+ students pursuing research in: human performance and behavior, driver interfaces, sensors, communications, vehicle and traffic controls, modeling and simulation – developing new approaches for confronting difficult transportation issues.

Dr. Donath was responsible for the strategic plan that re-engineered the Institute when it was re-authorized in 1998. Its new focus on human centered technology to enhance safety and mobility brought together cognitive psychologists and research engineers to focus on novel solutions to transportation problems—solutions that adapt technology to humans rather than the other way around. Building on the core funding provided by the ITS Institute and partnerships with the Minnesota DOT, the Minnesota Department of Public Safety, Metro Transit and other agencies, a team of research staff led by Donath was able to successfully compete nationally and internationally on many programs focused on the human-vehicle interface. Donath has successfully led several major US DOT and Minnesota DOT sponsored programs, field operational tests and multi-state DOT initiatives, integrating the efforts of multiple organizations and their staff.

Dr. Donath has published widely, documenting the design, development and experimental validation of innovative approaches that integrate sensors, intelligence, and motor control in order to assist humans with the performance of complex tasks. His most recent efforts have been directed toward the application of sensors and control systems to reduce driver error and the resulting road fatalities and life changing crashes. He together with his team has adapted theory to design and have built tools that can be experimentally validated on the road. As a result, many of these innovations are now being deployed in the field, including systems that are being integrated into the fleet of a major vehicle OEM. In addition to research and teaching, Dr. Donath has been active in many organizations, including service on TRB committees and government advisory panels.





















































