

Jeffrey Miller

Dr. Jeffrey Miller is currently an Assistant Professor in the Computer Engineering department at the University of Alaska, Anchorage. Prior to joining UAA in 2007, he was an Adjunct Professor in the Computer Science department at California State University, Los Angeles for 5 years. Dr. Miller earned the Bachelor of Science degree in Computer Engineering and Computer Science in 2002, the Master of Science degree in Computer Science in 2002, and the Ph.D. degree in Computer Science in 2007, all from the University of Southern California. His research interests include vehicle-to-vehicle and vehicle-to-infrastructure communication, and distributed algorithms and software architectures for Intelligent Transportation System (ITS) applications.

Dr. Miller is an active member of IEEE and ACM, being involved as the General Chair for the IEEE 70th Vehicular Technology Conference in 2009, the Local Arrangements Chair for the IEEE Systems, Man, and Cybernetics Conference in 2011, and chairing numerous sessions and reviewing papers for many conferences. He is also an Associate Editor for the IEEE Intelligent Transportation Systems Magazine.

Dr. Miller's current work focuses on parameterizing distributed architectures to determine a priori advantages to different applications based on the architecture used. He is also focused on gathering ITS data from individual vehicles through vehicle-tracking devices installed in the vehicles to provide a test bed for other researchers to exploit the data for their own use. The simulator he developed, FreeSim, allows live data to be fed in from loop detectors or individual vehicles, which then allows fastest path algorithms or other ITS applications to be run on that data.