MY CAR, THE DOCTOR

Featuring Dr. Matthew Rizzo
University of Nebraska Medical Center

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ABSTRACT

Behavioral research on automobile drivers using cognitive tests, instrumented vehicles and driving simulators, is advancing our understanding of patterns of driver error that cause crashes. The results help specify linkages between cognitive decline, driver safety performance and crash risk. They also inform design of interventions deployed in the real world (e.g., driver monitoring and collision warning systems tied to driver alertness and cognitive health) to reduce driver safety errors and crash risk.

Meanwhile, cars keep getting “smarter”. Collaborations between car designers and the tech industry are focusing on advances in vehicle autonomy and driver mobility and health. This talk considers the potential for a “medical car” (My Car, The Doctor), able to detect and respond to driver impairments; connected to data from sensors deployed at home, at work, and on the driver; and linked to healthcare networks, with potential for improving patient/driver mobility, safety and quality of life.

ABOUT DR. MATTHEW RIZZO

Dr. Rizzo is the Professor and Chair of the Department of Neurological Sciences at the University of Nebraska Medical Center and Co-Director of the Nebraska Neuroscience Alliance. Prior to joining the UNMC faculty in April 2014, Dr. Rizzo was a Professor of Neurology at the University of Iowa College of Medicine. Currently Dr. Rizzo is seeing patients with Memory Disorders and participating in several studies related to addressing behavioral consequences of aging and neurological disorders.