Neural networks are becoming a mature technology, making their way into industrial applications. Neural networks are very flexible computational structures that learn from data or through interaction with real systems. They require effective and efficient methods of design or training to do what their “masters” want. I will review neural network training methodology in the context of selected applications in the areas of automotive safety and control.

Bio:
Dr. Prokhorov came to the US from Russia, having obtained a degree in Robotics. He joined Ford Research in Dearborn, MI, in 1997 to carry out application-driven research on neural networks and other machine learning methods. He went to Toyota Technical Center in Ann Arbor, MI, in 2005 to lead research in AI and Robotics.