

# Danil Prokhorov

Head of the Future Research Department in Toyota Motor North America R&D

**Bio:** Dr. Danil Prokhorov started his research career in Russia. He studied system engineering which included courses in math, physics, mechatronics and computer technologies, as well as aerospace and robotics. He received his M.S. with Honors in St. Petersburg, Russia, in 1992. After receiving Ph.D. in 1997, he joined the staff of Ford Scientific Research Laboratory, Dearborn, Michigan. While at Ford he pursued machine learning research focusing on neural networks with applications to system modeling, powertrain control, diagnostics and optimization. He has been involved in research and planning for various intelligent technologies, such as highly automated vehicles, AI and other futuristic systems at Toyota Tech Center (TTC), Ann Arbor, MI since 2005. Since 2011 he is in charge of future research department in Toyota Motor North America R & D. He has been serving as a panel expert for NSF, DOE, ARPA, Senior and Associate Editor of several scientific journals for over 20 years. He has been involved with several professional societies including IEEE Intelligent Transportation Systems (ITS) and IEEE Computational Intelligence (CI), as well as International Neural Network Society (INNS) as its former Board member, President and recently elected Fellow. He has authored lots of publications and patents. Having shown feasibility of autonomous driving and personal flying mobility, his department continues research of complex multi-disciplinary problems while exploring opportunities for the next big thing.