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Edward Tunstel, Ph.D. Fellow IEEE
CTO , Motiv Space Systems, Inc.
Pasadena, CA

Venue: Holiday Inn Riverwalk
San Antonio, Texas

Lifetime Achievement Awardee

Bio: Edward Tunstel is CTO of Motiv Space Systems, Inc., a space and ground robotics company. He was previously with the Autonomous & Intelligent Systems Department at Raytheon Technologies Research Center, USA, during 2017-2021 where he provided leadership, expertise, and associated strategy development and led a research group focused on technologies enabling autonomy and human-collaborative capabilities for manufacturing and service applications. During the prior decade, he was with the Johns Hopkins Applied Physics Laboratory (APL) as a senior roboticist in its research department and Intelligent Systems Center, and as space robotics & autonomous control lead in its space department. At APL he was engaged in modular open systems development efforts supporting advanced EOD robotic systems programs as well as robotics and autonomy research for future national security and space applications. For close to two decades prior to APL he was with NASA JPL as a senior robotics engineer and group leader of its Advanced Robotic Controls Group. He worked on the NASA Mars Exploration Rovers mission as both a flight systems engineer responsible for autonomous navigation and associated V&V, and as rover engineering team lead for mobility and robotic arm subsystems during surface mission operations on Mars. He earned B.S. and M.E. degrees in mechanical engineering from Howard University in

Washington, DC and the Ph.D. in electrical engineering from the University of New Mexico. He is the Sr. Past President (2022-2023) of the IEEE SMC Society and an IEEE Fellow with over 170 technical publications including five co-edited/authored books in his areas of research interest, which include mobile robot navigation, autonomous control, cooperative & human-collaborative robotics, robotic systems engineering, and applications of soft computing to autonomous systems.