



College of Engineering Department of Computer Science

Presents

U.S. Army TARDEC Ground Vehicle Robotics Programs for Future Manned and Unmanned Teaming

by

Dr. Michael S. Del Rose
U.S. Army (TARDEC)

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234 State Hall

11:30 am – 12:20 pm



Abstract:

The U.S. Army's future force is focused around Manned and Unmanned Teaming (MUMT) operations. For this to be a reality, current investment in building the foundation are required. Foundational efforts include development of key capabilities, building upon open architectures, and providing proof of concept demonstrations. This presentation focuses on the current robotic projects at U.S. Army TARDEC and how they fit into future MUMT efforts.

Bio:

Dr. Michael Del Rose is the Chief Engineer and Senior Technical Expert for Robotics at the U.S. Army Tank Automotive Research, Development, and Engineering Center (TARDEC). Prior to his current appointment, Dr. Del Rose created and was the Director of the Vehicle and Robotics Alliance (VRA), a consortium of over 300 industries, universities, and Government organizations collaborating to provide vehicle and robotic information, education, and R&D procurement. Dr. Del Rose also held positions as the European Scientist for the Army in Vehicles, Robotics, and Armaments and was the Senior Researcher in Artificial Intelligence for the Ground Vehicle Robotics division.

Dr. Del Rose graduated from the University of Michigan with a Bachelor's of Science in Mathematics (B.S). He completed his Masters of Science in Electrical Engineering (M.S.E.E) and Master's Thesis also at the University of Michigan. His Doctorate degree is in Systems Engineering (Ph.D.) from Oakland University with his thesis entitled "Evidence Feed Forward Hidden Markov Models for Classification on Visual Human Actions." Dr. Del Rose's technical expertise includes artificial and computational intelligence, optimization, and robotics. He also mentors a high school's FIRST Robotics Challenge teams (7 years) and an elementary school's FIRST Robotics Lego League team (3 years).