Greg Droge

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2024 Faculty Researcher of the Year Award Nominee

College of Engineering | Electrical and Computer Engineering

Greg N. Droge has been an Assistant Professor in the department of Electrical and Computer Engineering at Utah State University since 2018. His research is focused on dynamically constrained planning for both large groups and individual vehicles operating in uncertain environments. While the applications have been diverse (satellite constellations, battery electric bus coordination, GPS denied navigation, etc.), the underlying research includes developing receding horizon optimization techniques to manage and plan for resource use while considering dynamic constraints. Dr. Droge completed his PhD at Georgia Tech in Electrical and Computer Engineering in 2014. His thesis focused on distributed optimization and multivehicle coordinated path planning. After graduating, he worked at SPAWAR-PAC to develop, test, and demonstrate a collaborative cross domain mission planning capability aimed at improving coordinated operations of teams of unmanned systems using a novel evolutionary systems engineering model. In December of 2016, he began work for USAF 309th SMXG with a focus on investigating strategies for improvement of the MQ-9 ground control station. Dr. Droge also received an MS from Georgia Tech in 2012. Prior to Georgia Tech, he studied at Brigham Young University where he graduated Magna Cum Laude with a BS in Electrical Engineering in 2009.