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**REAL-TIME AND HIGH-FIDELITY SIMULATION ENVIRONMENT FOR
AUTONOMOUS GROUND VEHICLE DYNAMICS**

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ABSTRACT

Integrated simulation capabilities that are high-fidelity, fast, and have scalable architecture are essential to support autonomous vehicle design and performance assessment for the U.S. Army's growing use of unmanned ground vehicles (UGV). The HMMWV simulation described in this paper embodies key features of the real vehicle, including a complex suspension and steering dynamics, wheel-soil models, navigation, and control. This research uses advanced multibody techniques such as minimal coordinate representations with constraint embedding to model complex unmanned ground vehicles for fast mechanical simulations with high fidelity. In this work, we demonstrate high-fidelity dynamics models for autonomous UGV simulations in near real time that can be useful to the U.S. Army for future autonomous ground vehicle dynamics modeling and analysis research.

INTRODUCTION

With increased onboard autonomy, advanced vehicle models are needed to analyze and optimize control design and sensor packages over range of urban and off-road scenarios. Moreover, integrated simulation capabilities that are high-fidelity, fast, and have scalable architecture are essential to support autonomous vehicle design and performance assessment for the U.S. Army's growing use of unmanned ground vehicles.

Recent work at TARDEC has attempted to develop a high-fidelity mobility simulation of an autonomous vehicle in an off-road scenario using integrated sensor, controller, and multi-body dynamics models [1]. The conclusion was that (a) real-time simulation was not feasible due to the complexity of the intervening formulation, (b) models had to be simplified to speed up the simulation, (c) interfacing the sensors was exceedingly difficult due to co-simulation, (d) the controls developed were very basic and could not be optimized, and (e) a rigid terrain model was used.

The JPL ROAMS ground vehicle simulation framework is based on the JPL Darts/Dshell simulation architecture [2], [3], [4], [5]. ROAMS and the underlying architecture have been successfully demonstrated at JPL in several space mission-critical scenarios where a high degree of mission

complexity, real-time performance, and extensive sensor/actuator/control integration were necessary. The underlying framework has been applied to a variety of mission-critical simulation needs for NASA missions across multiple domains (cruise/orbiter, landers, and rovers) over the years. The architecture has supported real-time embedded hardware-in-the-loop use to large-scale Monte Carlo based parametric studies. For further information about the ROAMS, please visit the JPL DARTS Lab website: <http://dartslab.jpl.nasa.gov>.

ROAMS is unique in its integrated approach to straddling the multi-function high-fidelity dynamics, sensors, environment, control, and autonomy models that are key attributes of future Army unmanned ground vehicles (UGVs). This project will facilitate the transfer of this technology to TARDEC so that customers such as RS JPO and DARPA can be supported.

This project is a pilot effort to demonstrate the application of the ROAMS modeling approach for addressing the fidelity and speed bottlenecks for TARDEC and the Army's needs for the evaluation and testing of autonomous ground vehicles. The simulation architecture represents a shift in paradigm in empowering analysts with full visibility and control in tailoring key elements of the simulator. This

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Table of Contents Real Time And High Fidelity Simulation Environment For

1. Understanding the eBook Real Time And High Fidelity Simulation Environment For
 - The Rise of Digital Reading Real Time And High Fidelity Simulation Environment For
 - Advantages of eBooks Over Traditional Books
2. Identifying Real Time And High Fidelity Simulation Environment For
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Real Time And High Fidelity Simulation Environment For
 - User-Friendly Interface
4. Exploring eBook Recommendations from Real Time And High Fidelity Simulation Environment For
 - Personalized Recommendations
 - Real Time And High Fidelity Simulation Environment For User Reviews and Ratings
 - Real Time And High Fidelity Simulation Environment For and Bestseller Lists

5. Accessing Real Time And High Fidelity Simulation Environment For Free and Paid eBooks
 - Real Time And High Fidelity Simulation Environment For Public Domain eBooks
 - Real Time And High Fidelity Simulation Environment For eBook Subscription Services
 - Real Time And High Fidelity Simulation Environment For Budget-Friendly Options
6. Navigating Real Time And High Fidelity Simulation Environment For eBook Formats
 - ePub, PDF, MOBI, and More
 - Real Time And High Fidelity Simulation Environment For Compatibility with Devices
 - Real Time And High Fidelity Simulation Environment For Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Real Time And High Fidelity Simulation Environment For
 - Highlighting and Note-Taking Real Time And High Fidelity Simulation Environment For
 - Interactive Elements Real Time And High Fidelity Simulation Environment For
8. Staying Engaged with Real Time And High Fidelity Simulation Environment For
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Real Time And High Fidelity Simulation Environment For
9. Balancing eBooks and Physical Books Real Time And High Fidelity Simulation Environment For
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Real Time And High Fidelity Simulation Environment For
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Real Time And High Fidelity Simulation Environment For
 - Setting Reading Goals Real Time And High Fidelity Simulation Environment For
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Real Time And High Fidelity Simulation Environment For
 - Fact-Checking eBook Content of Real Time And High Fidelity Simulation Environment For
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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