

Unmanned Aerial Vehicles



**Applications of Digital Video
and Synthetic Environments
to Unmanned Aerial Vehicles**



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AN Whitehead



Applications Of Digital Video And Synthetic Environments To Unmanned Aerial Vehicles:

Applications of Digital Video and Synthetic Environments to Unmanned Aerial Vehicles Naval Postgraduate Naval Postgraduate School, 2016-01-03 The current Army Unmanned Aerial Vehicle UAV system has two problems 1 it does not provide for the direct distribution of live UAV video throughout command posts across their local area networks and 2 it lacks an automated trainer To solve the video distribution problem I studied the UAV system video compression techniques and local area network protocols to develop the video distribution model The approach taken for developing the simulator included researching the operational characteristics of the UAV system and studying the creation of synthetic environments This work develops an architecture for extending the distribution of live UAV video inside the command post using a local area network It recommends distributing full motion UAV video over an Asynchronous Transfer Mode ATM local area network using the motion Joint Photographic Experts Group JPEG compression technique Additionally I created an interactive UAV Simulator using the IRIS Performer applications program interface and C The simulator is implemented using two networked workstations which replicate the functions of the air vehicle and mission payload operators The workstations communicate across a local area network using the Distributed Interactive Simulation DIS protocol

Applications of Digital Video and Synthetic Environments to Unmanned Aerial Vehicles Naval Postgraduate Naval Postgraduate School, 2015-05-17 The current Army Unmanned Aerial Vehicle UAV system has two problems 1 it does not provide for the direct distribution of live UAV video throughout command posts across their local area networks and 2 it lacks an automated trainer To solve the video distribution problem I studied the UAV system video compression techniques and local area network protocols to develop the video distribution model The approach taken for developing the simulator included researching the operational characteristics of the UAV system and studying the creation of synthetic environments This work develops an architecture for extending the distribution of live UAV video inside the command post using a local area network It recommends distributing full motion UAV video over an Asynchronous Transfer Mode ATM local area network using the motion Joint Photographic Experts Group JPEG compression technique Additionally I created an interactive UAV Simulator using the IRIS Performer applications program interface and C The simulator is implemented using two networked workstations which replicate the functions of the air vehicle and mission payload operators The workstations communicate across a local area network using the Distributed Interactive Simulation DIS protocol

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Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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of these issues will generalize to civilian applications as robotic technology matures An important outcome is the focus on developing general human robot teaming principles and guidelines to help both the human factors design and training community develop a better understanding of this nascent but revolutionary technology Much of the research within the book is based on the Human Research and Engineering Directorate HRED U S Army Research Laboratory ARL 5 year Army Technology Objective ATO research program The program addressed HRI and teaming for both aerial and ground robotic assets in conjunction with the U S Army Tank and Automotive Research and Development Center TARDEC and the Aviation and Missile Development Center AMRDEC The purpose of the program was to understand HRI issues in order to develop and evaluate technologies to improve HRI battlefield performance for Future Combat Systems FCS The work within this volume goes beyond the research results to encapsulate the ATO s findings and discuss them in a broader context in order to understand both their military and civilian implications For this reason scientists conducting related research have contributed additional chapters to widen the scope of the original research boundaries

Government Reports

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