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Dynamic Route Replanning and Retasking of Unmanned Aerial Reconnaissance Vehicles (Paperback)

By David E R Pritchard

Biblioscholar, United States, 2012. Paperback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Today s high altitude endurance (HAE) reconnaissance unmanned aerial vehicles (UAVs) are extremely complex and capable systems. They are only as good as the quality of their implementation, however. Mission planning is rapidly increasing in complexity to accommodate the requirements of increasing aircraft and information control capabilities. Effective mission planning is the key to effective use of our airborne reconnaissance assets. Global Hawk, the current state-of-the-art in HAE unmanned reconnaissance aircraft systems, demands extremely intensive and detailed mission planning. The mission plan must accommodate a range of possible emergencies and other unplanned in-flight events, like pop-up threats or a critical aircraft system failure. Current in-flight mission replanning systems do not have sufficient capability for operators to effectively handle the full range of surprises commonly encountered in flight operations. Automation is commonly employed to reduce this high workload on human operators. This research proposes that a variety of common operational situations in HAE UAV reconnaissance necessitate more direct human involvement in the aircraft control process than is currently...



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