

Flight Stabilization for Image Acquisition based on UAV

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Abstract—Monitoring technique using UAV(Unmanned Air Vehicle) means a technique of monitoring by mounting camera on UAV in case of having to monitor at an altitude where it is unable to shoot objects with general ground photographing equipment. Monitoring method by using UAV has an advantage of accessibility and speed compared with vehicle and monitoring of diversified compositions is possible. In addition, in order to perform UAV-based monitoring, it is very important for monitoring manager to collect image without shaking by manipulating UAV even though such manager does not have any professional knowledge. This thesis suggests a method of research on a design of flight stabilization system for acquisition of UAV-based monitoring image.

Keyword—Small unmanned air vehicle, Flight stabilization, Image acquisition system, Monitoring facilities, Image processing



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