

Chapter 7

Conclusions

This book wants to be a novelty contribution to the many topics covered in the UASs applications. A monitoring and control landing system was done, in order to assist the remote pilot during the landing procedure when the environmental condition is adverse. The whole system was composed of ultrasonic sensor, infrared sensor, and optical sensor; each one of them has been discussed in the chapters of this work. The UAS will be furtherly equipped with others sensors (e.g. LIDAR) in manner to enhance the landing path estimation and obstacle detection and avoidance.

According to Joint Publication 1-02, DoD Dictionary (OSD 2002), I wish to conclude this work by giving the definition of UAS or unmanned aircraft UA:

A powered aerial vehicle that does not carry a human operator uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or non-lethal payload. Ballistic or semi ballistic vehicles, cruise missiles, and artillery projectiles are not considered unmanned aerial vehicles.