

Editorial note on Unmanned aerial vehicle

Karthikeyan Saelam

Department of Aeronautics, Hindustan Institute of Technology & Science (HITS), Chennai, India.

EDITORIAL

An unmanned aerial vehicle (UAV) (also known as a drone) is an aircraft that does not have a human pilot on board. Unmanned aerial vehicles (UAVs) are part of an unmanned aircraft system (UAS), which consists of a UAV, a ground-based controller, and a communication system between the two. UAVs may have varying degrees of autonomy in their flight. UAVs were initially used for missions that were too "dull, dirty, or dangerous" for humans, as opposed to crewed aircraft. Although drones were originally designed for military use, they are now being used for a wide range of purposes, including aerial photography, package delivery, agriculture, policing and surveillance, infrastructure inspections, research, smuggling, and drone racing. A UAV is a "powered, aerial vehicle that does not carry a human operator, uses aerodynamic forces for vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or nonlethal payload," according to the definition. As a result, missiles are not classified as unmanned aerial vehicles (UAVs) since the system is a one-time use weapon.

The phrases autonomous drone and unmanned aerial vehicle (UAV) are often used interchangeably. This may be due to the fact that many UAVs are autonomous, meaning they perform automated missions but still need human operators to operate them. An autonomous drone, on the other hand, is a "UAV that can run without human interference." To put it another way, autonomous drones take off, fly missions, and land on their own. The relationship between UAVs and remote-controlled model planes is uncertain. [requires citation] Model planes may or may not be included in UAVs. Some jurisdictions classify UAVs based on their size or weight; however, the US Federal Aviation Administration considers any unmanned flying craft, regardless of size, to be a UAV. Recreational purposes

Although multi-role airframe platforms are becoming more common, UAVs usually fall into one of five functional categories:

- . Battle - offering attack capabilities for high-risk missions (e.g., unmanned combat aerial vehicle (UCAV) and loitering munition, also known as a suicide drone).
- . Reconnaissance - An unmanned reconnaissance aerial vehicle that collects data on the battlefield.
- . Goal and decoy - presenting a target that resembles an enemy aircraft or missile to ground and aerial gunners.
- . Delivering freight is what logistics is all about.
- . Commercial and civil law

The absence of the cockpit and its windows is the primary distinction between planes and cars. For rotary wing UAVs, tailless quadcopters are popular, whereas tailed mono- and bi-copters are common for crewed platforms. I'm hoping that a motivated trainee would find the same value. A low-fidelity simulation method can improve a learner's initial proficiency in robotic-assisted surgery, but more research on this method is required. The purpose of this report and accompanying video is to implement a method of low fidelity to assist those new to robotic-assisted surgery to learn basic skills even before sitting on the console.

*Correspondence to: Karthikeyan Salem, Department of Aeronautics, Hindustan Institute of Technology & Science (HITS), Chennai, India, E-mail: salem.karthikeyan08@gmail.com

Received date: March 12, 2021; Accepted date: March 19, 2021; Published date: March 26, 2021

Citation: Karthikeyan Salem(2021) Editorial note on Unmanned aerial vehicle J Aeronaut Aerospace Eng. 10:245

Copyright: ©2021 Karthikeyan Saelam. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.