

Contemplating the performance of the drone model has a tremendous 'evasion index'

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Drones or drones are a small, interesting and agile technology toy that can help people complete complex tasks. But the level of flexibility of unmanned aircraft today is still one thing that makes developers 'headaches'. However, soon, we will be able to own extremely flexible drone models, not only know aerial acrobatics but also can perform movements that require speed, reactivity and accuracy. Extremely complicated body. Researchers from the University of Zurich have created an unmanned aircraft model that automatically avoids objects thrown at them - even at close range.

1. Transportation businesses use unmanned aircraft to provide medical supplies in the United States

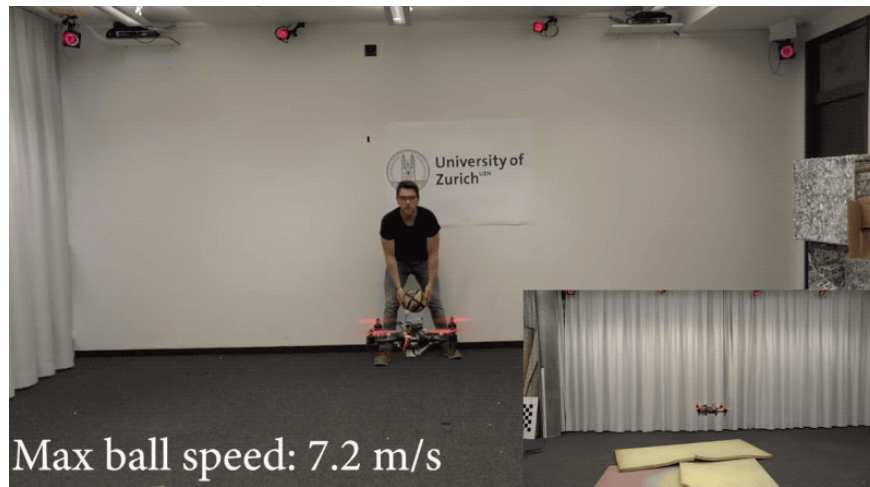
You can see that this 4-blade drone shows extremely complex skills in the video above and especially does not need the driver. Of course, the shots in the experiment are simulations and can be quite simple, it is much more difficult to dodge moving objects in mid-air, but the drone can still react completely automatically with speed. The level is quite high, showing great potential in actual use.

"We really want to cross the boundaries and test how far these robots are capable," said Davide Falanga, head of the University of Zurich research team.

1. Memorize with the world record set of 1,374 unmanned aircraft

Collision control helps to better protect the drone

Equipping unmanned aircraft with instant reflection features, enabling it to automatically avoid potential collisions will play a particularly useful role in ensuring device safety in many cases practical use. For a simple example, the drone will be able to handle unfortunate accidents with birds. More importantly, this flexibility will also be extremely useful for using drones to implement military and law enforcement tasks. If you own an unmanned aircraft that tracks a protest, for example, being able to avoid objects that the extremists throw for the purpose of sabotaging while drone is 'on duty' Clearly a very useful skill.



1. Unmanned aircraft help scientists monitor endangered sea turtles

Engineers Davide Falanga said that the drone's ability to evade flexible objects could outperform the most advanced commercial drones on the market today. According to the expert, the unmanned aircraft model Skydio's R1 - the drone is considered the most advanced on the market today, can own the best self-propelled features, but it still has to struggle and proved ineffective in avoiding objects moving at high speeds toward them.

As Davide Falanga and colleagues stated in their research paper, there are many reasons for this limitation. The technical factors including the responsiveness of the unmanned engine and the delay of the sensor can all contribute to the drone's failure to respond promptly. For humans as well as animals, a smooth combination of signal reception such as eyes, ears, and brain processing ability then sends signals quickly to the muscles that help us create something called instant reflection. This may sound quite simple, but in fact it is an extremely difficult task for robotic systems.

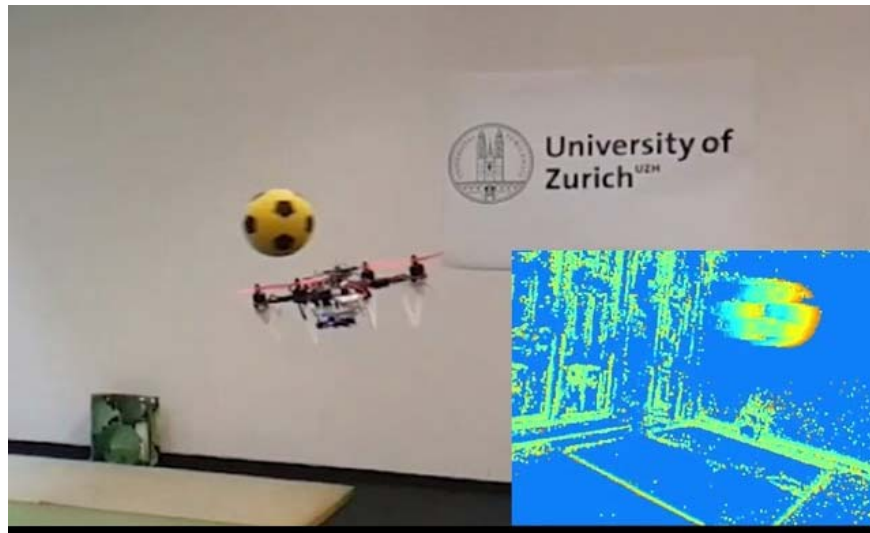


1. Amazon patents a drone self-destruct in an emergency

Even so, the unmanned aircraft model of the engineers at the University of Zurich still possesses a huge advantage over other commercial four-blade drones, which is the presence of an advanced sensor. This is called an 'event camera'. While traditional camera sensors simply record the number of frames placed per second and

transfer them to a software system for processing, the event camera sends data only when the pixels in its field of view change intensity. This means that the event camera will use less data and significantly lower latency data. In other words: the reaction time will be faster.

However, there are advantages, but the event camera has not been widely used on drones at the present time. Part of the reason lies in the cost. Such camera clusters can cost up to thousands of dollars and therefore, it is difficult to be seen outside the laboratory and research spaces. Davide Falanga and colleagues especially believe in the prospect of future application camera event, but it will take many years of development to bring this product to a more reasonable cost.



1. What is a UAV (drone), how does one control it and what can it be used for?

Until then, unmanned aircraft will still be vulnerable to objects thrown from anyone with good eyes and healthy arms, or worse than 'bad' birds.

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