

Mar 3 2019

Hi Kunwoo,

I am attending a workshop where many drone companies for critical infrastructure are attending. A research team from Waseda University in Japan presented a very interesting paper. I just saw their prototype of drone system. This system does not use IMU, but only 6 GNSS with 1 frequency and laser scanner. For syncing laser scanner with GNSS, they use additional GNSS antenna. Now they are adding a medium-range IMU integrated with GNSS. It seems like you are doing, they only use multi-lateration for positioning this drone. The best benefit is that you don't worry about the IMU calibration. Also, IMU is very expensive. So, this system is about \$6K USD (2.5kg payload).

Please read this paper together with Jahra.

I recall similar systems introduced by CMU (think they started a start-up company a few years ago).

Best regards,

Gunho