



Student UAS Competition

Contest Overview

Date / Time: Thursday, September 21, 2017, 10:30am—12:30pm

Location: Hilton St. Petersburg Bayfront Hotel, 333 1st Street South, St. Petersburg, FL 33701 USA

Objective: Students fly Unmanned Aerial Systems (UAS) over an indoor course of scale model scenarios derived from real world applications: for example to find a lost child, count wildlife, detect buried explosives, locate equipment damage, or identify a drowning swimmer. Scores will be based on solving each scenario problem as efficiently as possible.

Prizes: The top several places take home a UAS from the event, Grand Prize is a DJI Model 3 Standard UAS.

Audience: Conference attendees and local press will be invited to attend the contest.

Contest Rules

Registration is **free** to college and university students who are fully registered (3-day) attendees at the 36th DASC by 19 September 2017. At least 6 students must register in order for the contest to take place.

Students can sign up for the contest by selecting “UAS Contest” on the Contact Us form at the 2017 DASC website <http://2017.dasconline.org>. The contest will use identical small form-factor UAS with a First Person Video (FPV) cameras whose video may be viewed in-flight on a Wi-Fi capable phone or tablet (not provided). The UAS type and challenge scenarios will be posted on the DASC website 2 weeks prior to the conference.

The challenge scenarios may be available in other hotel rooms in the conference area during the week for students to view and practice solving their challenges with sample solutions. Practice time and UAS checkout must be coordinated with the DASC on-site registration team and UAS Competition coordinator.

On the day of the contest, the scenarios will be placed on the floor around the perimeter of a hotel ballroom with new solutions in each scenario. Contestants and spectators will gather in the center of the room. At specific times, (e.g., every 10 or 15 minutes), each student will fly their UAS among different scenarios and use the real-time video feed to find the solutions. In between rounds the UAS will get fresh batteries and judges will tabulate scores.

In case of a tie (or extremely close score) for the top 2 or 3 places, we may have a “fly off” between them for the Grand Prize. Winners will be announced (and prizes awarded) at Thursday’s Award Luncheon immediately following the contest.