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Radiometric Accuracy and Commercial UAVs: A Clash of Cultures?

Tuesday, July 7, 2020 1:00 PM - 2:00 PM EDT

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:: About This Webinar

While the explosion in the commercial drone industry has benefited a wide variety of applications including crop mapping and farmland surveying, the delivery to the farmer of accurate radiometric information is a different subject entirely. Data used to infer crop stress and related properties have traditionally been collected by highly accurate electro-optical systems aboard satellites, and validated using other calibrated sensors imaging the same territory. Radiometric calibration methods in the commercial UAV industry have developed differently, often sheltered within the industry's ecosystem, and large-scale data validation using traditional techniques is not yet apparent.

When accuracy counts, do commercial UAVs make the grade? Come join this webinar for an overview of relevant issues and challenges, and suggestions for the way forward.



About the presenter:

Barbara G. Grant, M.S., is the author of *Getting Started with UAV Imaging Systems: A Radiometric Guide* (SPIE Press, 2016) along with two previous books on radiometry. She has written extensively on unmanned aerial vehicles (UAVs) including papers and articles for SPIE, the *DSIAC Journal*, and *Commercial UAV News*, and has been a source for *Inside Unmanned Systems* and *UCI DCE Magazine*. In 2016, she formed Grant Drone Solutions LLC to apply the concepts in her book to the emerging UAV marketplace. She is a senior member of SPIE, a distinguished instructor in University of California, Irvine's optical engineering and optical instrument design certificate program, and an affiliate instructor with Georgia Tech Professional Education. Her website is <http://grantdrone.com>.

Who should attend:

Optical and electrical engineers and other professionals working with optics and imaging technologies who are interested in designing for the UAV market. Anyone involved in radiometric calibration test planning, implementation, and/or data analysis. Anyone working with sensor and imaging technologies for UAVs for precision agriculture.

:: Mark Your Calendar

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