

Autonomous Control Technology of Civil Cargo UAS

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Abstract

In this talk, the application of autonomous control technology in civil cargo UAS will be reported. Detailed introduction on short landing, adaptive control system for convertible loading, deception diagnosis of satellite navigation, potential perception and obstacle avoidance, online route planning and compatibility with civil airspace management rules will be presented, respectively.

About the Speaker



Xueyao Zhu was born in 1969, received his bachelor's degree in automatic control from Northwestern Polytechnical University in 1991, and master's degree in systems engineering from Xi'an Jiao Tong University in 1998. He has been a Professor with the AVIC Xi'an Fight Automatic Control Research Institute (FACRI), China from 2004. Professor Xueyao Zhu has been active in the design of flight control system for decades. His research interests include the design and development of multi-mode control law, design technology about online route planning of UAV and demonstration, and design in flight system of UAV, etc. He has been responsible for several projects including the flight control system of AT200 UAS which was first flew in 2017. Due to his outstanding contributions on flight control systems, he won the first or second prize of science and technology of AVIC and received the State Council Special Allowance Award in 2016.