

UNIVERSITY OF TURKISH AERONAUTICAL ASSOCIATION
GRADUATE SCHOOL OF AERONAUTICS AND ASTRONAUTICS
AEROSPACE ENGINEERING PROGRAM

GRADUATE SEMINAR SERIES

CUBESATS ATTITUDE DETERMINATION WITH KALMAN FILTER

by

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This presentation explores how the Kalman filter can be effectively used in the attitude determination process of cube satellites. Cubesats are crucial tools for space exploration and observation, but performing these tasks without accurate orientation information can be challenging. The Kalman filter and other Kalman-like filters can assist in accurately guiding cube satellites by maintaining a delicate balance between noisy measurements and sensor data. The presentation will elucidate the fundamental principles of the Kalman filter, highlight its applications in the attitude determination process of cubesats, and discuss how this technology provides advantages in space missions.

Date: January 23, 2024 Tuesday

Time: 14:30

Location: 102 Amfi