Aviation Fuels Property Prediction App

Track Code: 2019-KILA-68384

Categories:
- Aeronautics
- Chemical Engineering

Keywords:
- Aeronautics
- aerospace platform
- Algorithm
- avionics control systems
- Chemical Engineering
- Chromatography
- combustion controls
- Detection
- Fuel
- fuels
- Heat Transfer
- Heating
- Ion Reactions
- Ionization
- Military
- Mobile Application

Researchers at Purdue University have developed a application for rapid determination of aviation fuel properties. Current tests are time consuming and require large volumes of fuel for testing. The application created by Purdue researchers works in conjunction with a 2D chromatography to accurately determine fuel properties including density, viscosity, net of heat combustion, flash point, and freezing point. The program has been tested in Purdue University's Fuel Laboratory of Renewable Energy (FLORE). This cost-efficient solution can be easily integrated into aeronautic and military/defense applications.

Advantages:
--Fuel Efficient
-Green Technology
-Rapid Detection

Potential Applications:
-Aviation
-Military/Defense

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Intellectual Property:

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