AEROSPACE TURBOMACHINE ADAPTIVE MACHINE LEARNING CONTROLS WITH HEALTH MONITORING CAPABILITY

ABSTRACT

A turbomachine monitoring and control system includes a temperature sensor configured to measure temperature of a turbomachine disposed onboard a vehicle, a vibration sensor configured to measure vibration of the turbomachine, and a controller including one or more processors. The controller is configured to receive and analyze temperature data generated by the temperature sensor and vibration data generated by the vibration sensor. The controller is further configured to determine a health condition of the turbomachine based on the analysis.

Fig. 4