

METHODS AND SYSTEMS FOR PERFORMING AIRCRAFT MAINTENANCE

ABSTRACT

5 In an example, a method for determining whether to perform aircraft maintenance is described. The method comprises selecting groupings of sensors and/or parameters associated with an aircraft type. The method comprises receiving feature data that corresponds to each grouping of sensors and/or parameters. The method comprises determining, from the feature data, values for predetermined operational metrics. The method comprises comparing the values
10 to values for predetermined operational metrics that correspond to at least one other flight of the aircraft. The method comprises determining, based on comparing the values for the predetermined operational metrics, values of additional operational metrics. The method comprises training a machine learning model using at least the values for the additional operational metrics. The method comprises providing, based on an output of the machine
15 learning model, an instruction to perform maintenance on one or more of the plurality of portions of the aircraft or another aircraft.

Fig. 6