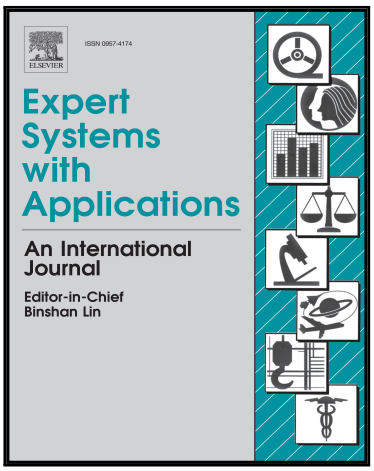

Fault Detection and Explanation through Big Data Analysis on Sensor Streams

Giuseppe Manco, Ettore Ritacco, Pasquale Rullo, Lorenzo Gallucci, Will Astill, Dianne Kimber, Marco Antonelli

PII: S0957-4174(17)30407-4
DOI: 10.1016/j.eswa.2017.05.079
Reference: ESWA 11380

To appear in: *Expert Systems With Applications*

Received date: 17 October 2016
Revised date: 31 May 2017
Accepted date: 31 May 2017

Please cite this article as: Giuseppe Manco, Ettore Ritacco, Pasquale Rullo, Lorenzo Gallucci, Will Astill, Dianne Kimber, Marco Antonelli, Fault Detection and Explanation through Big Data Analysis on Sensor Streams, *Expert Systems With Applications* (2017), doi: 10.1016/j.eswa.2017.05.079

Highlights

- Analysis of event-based monitoring of complex systems for predictive maintenance.
- An unsupervised technique for early detection of faults from diagnostic data.
- A method for characterizing failures and distinguish them from normal behavior.