Accepted Manuscript

Efficient Graph Pattern Matching Framework for Network-Based In-Vehicle Fault Detection

Sun Geol Baek, Dong Hyun Kang, Sungkil Lee, Young Ik Eom

PII: S0164-1212(18)30034-7 DOI: 10.1016/j.jss.2018.02.050

Reference: JSS 10120

To appear in: The Journal of Systems & Software

Received date: 14 August 2017 Revised date: 20 February 2018 Accepted date: 23 February 2018



Please cite this article as: Sun Geol Baek, Dong Hyun Kang, Sungkil Lee, Young Ik Eom, Efficient Graph Pattern Matching Framework for Network-Based In-Vehicle Fault Detection, *The Journal of Systems & Software* (2018), doi: 10.1016/j.jss.2018.02.050

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights:

- A graph modeling technique to represent vehicle operations in network message logs.
- Detection of vehicle fault operations using a graph pattern matching.
- A novel graph-distance metric to improve the accuracy of the proposed method.
- Two efficient polynomial-time graph filtering techniques.
- Experiments against the existing approaches, in terms of performance and accuracy.

Download English Version:

https://daneshyari.com/en/article/6885316

Download Persian Version:

https://daneshyari.com/article/6885316

<u>Daneshyari.com</u>