Optimal Assistive Drive System using Mobile Cloud Computing

National Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 182
Number 46

Year of Publication: 2019

Authors:
Sameh A. Salem

10.5120/ijca2019918624
{bibtex}2019918624.bib{/bibtex}

Abstract

No one can deny that mobile devices are increasingly becoming an essential part of our lives, and being used for information delivery, access and communication. In this paper, a novel assistive drive system with mobile offloading is proposed. Three effective measures are integrated for reliable and early drowsiness detection, namely behavioral, vehicle, and physiological measures. These measures give higher quality and relevant information. Additionally, the proposed system uses mobile devices to process readings. However, with huge amount of data and intensive computations, mobiles cannot deliver results in reasonable times. A possible approach is to offload computations onto the cloud.

References

2. “Regulatory impact and small business analysis for hours of service options,” Technical


17. Anamika Singh; Manninder Singh; Birmohan Singh, " Face detection and eyes extraction using sobel edge detection and morphological operations" IEEE International conference on Advances in Signal Processing (CASP), pp. 295-300, 2016.


Index Terms

Computer Science

Distributed Systems

Keywords