ECE 579 Intelligent Systems, Winter 2024

Technology Survey Report

Project title:

Names of students in the group:

Responsibilities of each student:

**Page limit 3 (not including references)**

1. Introduction
   * What problems do you intend to solve in your project (e.g. In this project, we will develop a computer vision algorithm for moving vehicle detection)
   * A summary of the technologies related to the problems you want to solve
2. Description of technologies related to your project (e.g. technologies related to moving vehicle detection)
   * These technologies are broad, these technologies can be
     + Well known functions/algorithms developed by researchers to solve the same problems related to your project topic
     + found in research papers, commercial products, etc.
   * You may need to search beyond websites:
     + Recent development in knowledge discoveries, theories, algorithms published, research journals, conference proceedings, etc.
   * Pros and Cons of the investigated technologies
3. Conclusion section

References

* + Provide a list of references you used to produce the reports. Every reference you listed here should be cited inside your report.
  + All reference papers should be presented in the following format

(in the order of being referenced in the report)

Sample Format:

[1] A. A. Malikopoulos. “Supervisory Power Management Control Algorithms for Hybrid Electric Vehicles: A Survey”. IEEE Transactions on Intelligent Transportation Systems, PP (99):1–17, March 2014.

[2] A. Kahrobaeian, B. Asaei, and R. Amiri. “Comparative Investigation of Charge-Sustaining and Fuzzy Logic Control Strategies in Parallel Hybrid Electric Vehicles”. In IEEE Vehicle Power and Propulsion Conference, 2009. (VPPC 2009), pages 1632–1636, September 2009.

[3] S. G. Li, S. M. Sharkh, F. C. Walsh, and C. N. Zhang. “Energy and Battery Management of a Plug-In Series Hybrid Electric Vehicle Using Fuzzy Logic”. IEEE Transactions on Vehicular Technology, 60(8), October 2011.

[4] Eby, D.W., Molnar L.J., & St. Louis, R.M. *Perspectives and Strategies for* *Promoting Safe Transportation among Older Adults*. Cambridge, MA: Elsevier Inc. 2019

[5] J. Park, Z. Chen, L. Kiliaris, M. L. Kuang, M. A. Masrur, A. M. Phillips, and Y. L. Murphey. “Intelligent Vehicle Power Control Based on Machine Learning of Optimal Control Parameters and Prediction of Road Type and Traffic Congestion”. IEEE Transactions on Vehicular Technology, 58(9), November 2009.

[6] <https://www.nhtsa.gov/sites/nhtsa.dot.gov/files/100carmain.pdf>, Accessed by June 10, 2020