BIBLIOGRAPHY

[1] R. Arnott and K. Small, "The economics of traffic congestion," *American scientist*, vol. 82, no. 5, pp. 446–455, 1994.

[2] M. Barth and K. Boriboonsomsin, "Real-world carbon dioxide impacts of traffic congestion," *Transportation Research Record*, vol. 2058, no. 1, pp. 163–171, 2008.

[3] S. R. E. Datondji, Y. Dupuis, P. Subirats, and P. Vasseur, "A survey of vision-based traffic monitoring of road intersections," *IEEE transactions on intelligent transportation systems*, vol. 17, no. 10, pp. 2681–2698, 2016.

[4] L. Brederode, M. Bliemer, and L. Wismans, "Staq: Static traffic assignment with queuing," in *European Transport Conference*. Citeseer, 2010.

[5] R. L. Bruce, "Loop detector for traffic signal control," Feb. 7 1984, uS Patent 4,430,636.

[6] J. Gajda, R. Sroka, M. Stencel, A. Wajda, and T. Zeglen, "A vehicle classification based on inductive loop detectors," in *IMTC 2001. Proceedings of the 18th IEEE Instrumentation and Measurement Technology Conference. Rediscovering Measurement in the Age of Informatics (Cat. No.01CH 37188)*, vol. 1, May 2001, pp. 460–464 vol.1.

[7] L. Tišljarić, T. Erdelić, and T. Carić, "Analysis of intersection queue lengths and level of service using gps data," in *2018 International Symposium ELMAR*. IEEE, 2018, pp. 43–46.

[8] S. Coleri, S. Y. Cheung, and P. Varaiya, "Sensor networks for monitoring traffic," in *Allerton conference on communication, control and computing*, 2004, pp. 32–40.

[9] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, "You only look once: Unified, real-time object detection," in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2016, pp. 779–788.

[10] J. Lin and M. Sun, "A yolo-based traffic counting system," in *2018 Conference on Technologies and Applications of Artificial Intelligence (TAAI)*, Nov 2018, pp. 82–85.

[11] J. F. Song, A. N. Bai, and R. Xue, "A reliable counting vehicles method in traffic flow monitoring," in *2011 4th International Congress on Image and Signal Processing*, vol. 1, Oct 2011, pp. 522–524.

[12] T.-H. Chang and J.-T. Lin, "Optimal signal timing for an oversaturated intersection," *Transportation Research Part B: Methodological*, vol. 34, no. 6, pp. 471–491, 2000.

[13] P. B. Mirchandani and N. Zou, "Queuing models for analysis of traffic adaptive signal control," *IEEE Transactions on Intelligent Transportation Systems*, vol. 8, no. 1, pp. 50–59, 2007.

[14] Q. He, K. L. Head, and J. Ding, "Multi-modal traffic signal control with priority, signal actuation and coordination," *Transportation research part C: emerging technologies*, vol. 46, pp. 65–82, 2014.

[15] D. Jia and Z. Chen, "Traffic signal control optimization based on fuzzy neural network," in *Proceedings of 2012 International Conference on Measurement, Information and Control*, vol. 2. IEEE, 2012, pp. 1015–1018.

[16] S. Mikami and Y. Kakazu, "Genetic reinforcement learning for cooperative traffic signal control," in *Proceedings of the First IEEE Conference on Evolu-*

tionary Computation. IEEE World Congress on Computational Intelligence.
IEEE, 1994, pp. 223–228.

[17] B. Abdulhai, R. Pringle, and G. J. Karakoulas, "Reinforcement learning for true adaptive traffic signal control," *Journal of Transportation Engineering*, vol. 129, no. 3, pp. 278–285, 2003.

[18] C. J. Watkins and P. Dayan, "Q-learning," *Machine learning*, vol. 8, no. 3-4, pp. 279–292, 1992.

[19] J. Canny, "A computational approach to edge detection," *IEEE Transactions on pattern analysis and machine intelligence*, no. 6, pp. 679–698, 1986.