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**تکلیف هفتم**

**روش تحقیق و گزارش نویسی**

**استاد: دکتر صفابخش**

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**لیست منابع**

IEEE

[1-11]

[1] Y. Aoyagi and T. Asakura, "A study on traffic sign recognition in scene image using genetic algorithms and neural networks," in *Industrial Electronics, Control, and Instrumentation, 1996., Proceedings of the 1996 IEEE IECON 22nd International Conference on*, 1996, pp. 1838-1843.

[2] D. Cire, x015F, an, U. Meier, J. Masci, and J. Schmidhuber, "A committee of neural networks for traffic sign classification," in *Neural Networks (IJCNN), The 2011 International Joint Conference on*, 2011, pp. 1918-1921.

[3] D. Cireşan, U. Meier, J. Masci, and J. Schmidhuber, "Multi-column deep neural network for traffic sign classification," *Neural Networks,* vol. 32, pp. 333-338, 8// 2012.

[4] A. Ellahyani, M. E. Ansari, and I. E. Jaafari, "Traffic sign detection and recognition based on random forests," *Applied Soft Computing*.

[5] P. Gil-Jiménez, S. Lafuente-Arroyo, S. Maldonado-Bascón, and H. Gómez-Moreno, "Shape classification algorithm using support vector machines for traffic sign recognition," in *Computational intelligence and bioinspired systems*, ed: Springer, 2005, pp. 873-880.

[6] M. Mathias, R. Timofte, R. Benenson, and L. Van Gool, "Traffic sign recognition—How far are we from the solution?," in *Neural Networks (IJCNN), The 2013 International Joint Conference on*, 2013, pp. 1-8.

[7] M. Peemen, B. Mesman, and H. Corporaal, "Speed sign detection and recognition by convolutional neural networks," in *Proceedings of the 8th International Automotive Congress*, 2011, pp. 162-170.

[8] P. Sermanet and Y. LeCun, "Traffic sign recognition with multi-scale convolutional networks," in *Neural Networks (IJCNN), The 2011 International Joint Conference on*, 2011, pp. 2809-2813.

[9] J. Stallkamp, M. Schlipsing, J. Salmen, and C. Igel, "Man vs. computer: Benchmarking machine learning algorithms for traffic sign recognition," *Neural networks,* vol. 32, pp. 323-332, 2012.

[10] F. Zaklouta and B. Stanciulescu, "Real-time traffic sign recognition in three stages," *Robotics and autonomous systems,* vol. 62, pp. 16-24, 2014.

[11] Y. Zeng, X. Xu, Y. Fang, and K. Zhao, "Traffic sign recognition using extreme learning classifier with deep convolutional features," in *The 2015 international conference on intelligence science and big data engineering (IScIDE 2015), Suzhou, China*, 2015.

**Annotated**

Aoyagi, Y. and T. Asakura (1996). A study on traffic sign recognition in scene image using genetic algorithms and neural networks. Industrial Electronics, Control, and Instrumentation, 1996., Proceedings of the 1996 IEEE IECON 22nd International Conference on, IEEE.

Cire, D., et al. (2011). A committee of neural networks for traffic sign classification. Neural Networks (IJCNN), The 2011 International Joint Conference on.

Cireşan, D., et al. (2012). "Multi-column deep neural network for traffic sign classification." Neural Networks **32**: 333-338.

Ellahyani, A., et al. "Traffic sign detection and recognition based on random forests." Applied Soft Computing.

Gil-Jiménez, P., et al. (2005). Shape classification algorithm using support vector machines for traffic sign recognition. Computational intelligence and bioinspired systems, Springer**:** 873-880.

Mathias, M., et al. (2013). Traffic sign recognition—How far are we from the solution? Neural Networks (IJCNN), The 2013 International Joint Conference on, IEEE.

Peemen, M., et al. (2011). Speed sign detection and recognition by convolutional neural networks. Proceedings of the 8th International Automotive Congress.

Sermanet, P. and Y. LeCun (2011). Traffic sign recognition with multi-scale convolutional networks. Neural Networks (IJCNN), The 2011 International Joint Conference on, IEEE.

Stallkamp, J., et al. (2012). "Man vs. computer: Benchmarking machine learning algorithms for traffic sign recognition." Neural Networks **32**: 323-332.

Zaklouta, F. and B. Stanciulescu (2014). "Real-time traffic sign recognition in three stages." Robotics and Autonomous Systems **62**(1): 16-24.

Zeng, Y., et al. (2015). Traffic sign recognition using extreme learning classifier with deep convolutional features. The 2015 international conference on intelligence science and big data engineering (IScIDE 2015), Suzhou, China.

**Vancouver**

1. Aoyagi Y, Asakura T, editors. A study on traffic sign recognition in scene image using genetic algorithms and neural networks. Industrial Electronics, Control, and Instrumentation, 1996, Proceedings of the 1996 IEEE IECON 22nd International Conference on; 1996: IEEE.

2. Cire D, x015F, an, Meier U, Masci J, Schmidhuber J, editors. A committee of neural networks for traffic sign classification. Neural Networks (IJCNN), The 2011 International Joint Conference on; 2011 July 31 2011-Aug. 5 2011.

3. Cireşan D, Meier U, Masci J, Schmidhuber J. Multi-column deep neural network for traffic sign classification. Neural Networks. 2012;32:333-8.

4. Ellahyani A, Ansari ME, Jaafari IE. Traffic sign detection and recognition based on random forests. Applied Soft Computing.

5. Gil-Jiménez P, Lafuente-Arroyo S, Maldonado-Bascón S, Gómez-Moreno H. Shape classification algorithm using support vector machines for traffic sign recognition. Computational intelligence and bioinspired systems: Springer; 2005. p. 873-80.

6. Mathias M, Timofte R, Benenson R, Van Gool L, editors. Traffic sign recognition—How far are we from the solution? Neural Networks (IJCNN), The 2013 International Joint Conference on; 2013: IEEE.

7. Peemen M, Mesman B, Corporaal H, editors. Speed sign detection and recognition by convolutional neural networks. Proceedings of the 8th International Automotive Congress; 2011.

8. Sermanet P, LeCun Y, editors. Traffic sign recognition with multi-scale convolutional networks. Neural Networks (IJCNN), The 2011 International Joint Conference on; 2011: IEEE.

9. Stallkamp J, Schlipsing M, Salmen J, Igel C. Man vs. computer: Benchmarking machine learning algorithms for traffic sign recognition. Neural networks. 2012;32:323-32.

10. Zaklouta F, Stanciulescu B. Real-time traffic sign recognition in three stages. Robotics and autonomous systems. 2014;62(1):16-24.

11. Zeng Y, Xu X, Fang Y, Zhao K, editors. Traffic sign recognition using extreme learning classifier with deep convolutional features. The 2015 international conference on intelligence science and big data engineering (IScIDE 2015), Suzhou, China; 2015.

**Harvard**

[1-11]

AOYAGI, Y. & ASAKURA, T. A study on traffic sign recognition in scene image using genetic algorithms and neural networks. Industrial Electronics, Control, and Instrumentation, 1996., Proceedings of the 1996 IEEE IECON 22nd International Conference on, 1996. IEEE, 1838-1843.

CIRE, D., X015F, AN, MEIER, U., MASCI, J. & SCHMIDHUBER, J. A committee of neural networks for traffic sign classification. Neural Networks (IJCNN), The 2011 International Joint Conference on, July 31 2011-Aug. 5 2011 2011. 1918-1921.

CIREŞAN, D., MEIER, U., MASCI, J. & SCHMIDHUBER, J. 2012. Multi-column deep neural network for traffic sign classification. *Neural Networks,* 32**,** 333-338.

ELLAHYANI, A., ANSARI, M. E. & JAAFARI, I. E. Traffic sign detection and recognition based on random forests. *Applied Soft Computing*.

GIL-JIMÉNEZ, P., LAFUENTE-ARROYO, S., MALDONADO-BASCÓN, S. & GÓMEZ-MORENO, H. 2005. Shape classification algorithm using support vector machines for traffic sign recognition. *Computational intelligence and bioinspired systems.* Springer.

MATHIAS, M., TIMOFTE, R., BENENSON, R. & VAN GOOL, L. Traffic sign recognition—How far are we from the solution? Neural Networks (IJCNN), The 2013 International Joint Conference on, 2013. IEEE, 1-8.

PEEMEN, M., MESMAN, B. & CORPORAAL, H. Speed sign detection and recognition by convolutional neural networks. Proceedings of the 8th International Automotive Congress, 2011. 162-170.

SERMANET, P. & LECUN, Y. Traffic sign recognition with multi-scale convolutional networks. Neural Networks (IJCNN), The 2011 International Joint Conference on, 2011. IEEE, 2809-2813.

STALLKAMP, J., SCHLIPSING, M., SALMEN, J. & IGEL, C. 2012. Man vs. computer: Benchmarking machine learning algorithms for traffic sign recognition. *Neural networks,* 32**,** 323-332.

ZAKLOUTA, F. & STANCIULESCU, B. 2014. Real-time traffic sign recognition in three stages. *Robotics and autonomous systems,* 62**,** 16-24.

ZENG, Y., XU, X., FANG, Y. & ZHAO, K. Traffic sign recognition using extreme learning classifier with deep convolutional features. The 2015 international conference on intelligence science and big data engineering (IScIDE 2015), Suzhou, China, 2015.

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