

A clustering approach based on support vectors

Gaurav, Pawan Whig

¹Research Intern

¹The Research World, New Delhi, India

¹ Gaurav97@gmail.com*

* corresponding author

ARTICLE INFO

Article History:

Received January 1, 2021

Revised Nov 31, 2021

Accepted Jan 1, 2022

Keywords:

TTS, OCR, Java, Voice, mobile application, news app

Correspondence:

E-mail: Gaurav97@gmail.com

ABSTRACT

We describe a unique kernel technique for data clustering based on a support vector description of the data. The kernel represents a data point projection from data space to a high dimensional feature space. Cluster boundaries are specified in feature space as spheres that represent complicated geometric structures in data space. We build a basic clustering method using this geometric representation of the data.

Contact Editor for Full paper Contact @ijsdcs.com

References

- [1] Laurence Gale Msc., (2004), "The Art of Line Marking," pp 24-74, Tata McGraw Hill Publishing Company Ltd., New Delhi.
- [2] Sports Turf Research Institute, (1994), Winter Games Pitches: The Construction and Maintenance of Natural Turf Pitches for Team Games, R.D.C. Evans., USA.
- [3] Texas Department of Transportation, (2004), Pavement Marking Handbook, USA.
- [4] Huang Weiquan, "Automatic marking device for convex traffic line," Sanhuan Yakeli Traffic Material.
- [5] Hunger, Klaus & Herbst, Willy, 2000, "Pigments, Organic", pp 12-25, Ullmann's Encyclopedia of Industrial Chemistry, New York.
- [6] Ross Girshick, Jeff Donahue, Trevor Darrell, and Jitendra Malik. Rich feature hierarchies for accurate object detection and semantic segmentation. In *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2014.
- [7] Ross Girshick. Fast R-CNN. In *International Conference on Computer Vision (ICCV)*, 2015.
- [8] Shaoqing Ren, Kaiming He, Ross Girshick, and Jian Sun. Faster R-CNN: Towards realtime object detection with region proposal networks. In *Advances in Neural Information Processing Systems (NIPS)*, 2015.
- [9] Joseph Redmon, Santosh Divvala, Ross Girshick, and Ali Farhadi. You only look once: Unified, real-time object detection. In *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.
- [10] Wei Liu, Dragomir Anguelov, Dumitru Erhan, Christian Szegedy, Scott Reed, ChengYang Fu, and Alexander C. Berg. SSD: Single shot multibox detector. In *ECCV*, 2016.
- [11] Karen Simonyan and Andrew Zisserman. Very deep convolutional networks for large-scale image recognition. arXiv preprint arXiv:1409.1556, 2014.

- [12]Velu, A. (2019). The spread of big data science throughout the globe. *International Journal of Sustainable Development in Computing Science*, 1(1), 11-20. Retrieved from <https://ijsdcs.com/index.php/ijsdcs/article/view/6>
- [13]Velu, A. (2019). A Stable Pre-processing Method for the Handwritten Recognition System. *International Journal of Machine Learning for Sustainable Development*, 1(1), 21-30. Retrieved from <https://ijsdcs.com/index.php/IJMLSD/article/view/60>
- [14]Whig, P. (2019). Exploration of Viral Diseases mortality risk using machine learning. *International Journal of Machine Learning for Sustainable Development*, 1(1), 11-20. Retrieved from <https://ijsdcs.com/index.php/IJMLSD/article/view/53>
- [15]Whig, P. (2019). A Novel Multi-Center and Threshold Ternary Pattern. *International Journal of Machine Learning for Sustainable Development*, 1(2), 1-10. Retrieved from <https://ijsdcs.com/index.php/IJMLSD/article/view/54>
- [16]A Velu, P Whig (2021) Protect Personal Privacy And Wasting Time Using Nlp: A Comparative Approach Using Ai, Vivekananda Journal of Research, 10 , 42-52
- [17]Velu, A. (2021). Influence of business intelligence and analytics on business value. *International Engineering Journal For Research & Development*, 6(1), 9-19.
- [18]Y Khera, P Whig, A Velu (2021), efficient effective and secured electronic billing system using AI, Vivekananda Journal of Research, 10 , 53-60
- [19]Velu, A., & Whig, P. (2021). Impact of Covid Vaccination on the Globe using data analytics. *International Journal of Sustainable Development in Computing Science*, 3(2), 1-10. Retrieved from <https://ijsdcs.com/index.php/ijsdcs/article/view/11>
- [20]Y Khera, P Whig, A Velu (2021), Framework of Perceptive Artificial Intelligence using Natural Language Processing (P.A.I.N), Artificial & Computational Intelligence/Published Online: July 2021 https://acors.org/ijacoi/VOL2_ISSUE2_3.pdf