Abstract

There is a great significance of Image retrieval in multimedia and for image retrieval shape is one of the promising features. This paper presents a survey on one of the method of image retrieval based on shape. First, Shape context is described in this paper and the various versions of it that are implemented are given in detail. This paper gives a summarized view of all the methods of shape context in one single place. It investigates all the methods and gives a brief review. Shape context is descriptor that uses the global features of the shape.

References

- Zhang, Dengsheng, and Guojun Lu. "Review of shape representation and
- Belongie, Serge, Jitendra Malik, and Jan Puzicha. “Shape matching and object
recognition using shape contexts.” Pattern Analysis and Machine Intelligence, IEEE
Indexing.” In Genetic and Evolutionary Computing (ICGEC), 2011 Fifth International
Conference on, pp. 17-20. IEEE, 2011
- Schlosser S., and Beichel, R. “Fast Shape Retrieval Based on Shape
- Ma, Tian-lei, Yun-peng Liu, Ze-lin Shi, and Jian Yin. “A shape context based
Hausdorff similarity measure in image matching.” In ISPDI 2013-Fifth International
Symposium on Photoelectronic Detection and Imaging, pp. 89070O-89070O. International
Society for Optics and Photonics, 2013.
- Mori, Greg, Serge Belongie, and Jitendra Malik. “Efficient shape matching using
shape contexts.” IEEE Transactions on Pattern Analysis and Machine Intelligence 27, no.
- Ling, Haibin, and David W. Jacobs. “Shape classification using the
inner-distance.” Pattern Analysis and Machine Intelligence, IEEE Transactions on29, no.
- Rusiñol, Marçal, and Josep Lladós. “Efficient logo retrieval through hashing shape
context descriptors.” In Proceedings of the 9th IAPR International Workshop on
- Yang, Su, and Yuanyuan Wang. “Rotation invariant shape contexts based on
feature-space Fourier transformation.” In Fourth International Conference on Image and

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