

# References

Additional resources available at <http://davidstutz.de/projects/superpixelsseeds/>.

## Superpixel algorithms

<b>NC</b>	Ren and Malik [7]
<b>FH</b>	Felzenswalb and Huttenlocher [2]
<b>QS</b>	Vedaldi and Soatto [11]
<b>TP</b>	Levinshtein et al. [3]
<b>SLIC</b>	Achanta et al. [1]
<b>CIS</b>	Veksler et al. [12]
<b>ERS</b>	Liu et al. [4]
<b>PB</b>	Zhang et al. [14]
<b>CRS</b>	Mester et al. [5]
<b>SEEDS</b>	Van den Bergh et al. [10]
<b>reSEEDS</b>	<b>SEEDS</b> reimplementation [8]
<b>TPS</b>	Tang et al. [9]

## Superpixel algorithms using depth

<b>reSEEDS3D</b>	<b>reSEEDS</b> using depth [8]
<b>DASP</b>	Weikersdorfer et al. [13]
<b>VCCS</b>	Papon et al. [6]

- [1] Achanta, R., Shaji, A., Smith, K., Lucchi, A., Fua, P., Süsstrunk, S.: SLIC superpixels. Tech. rep., École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland (June 2010)
- [2] Felzenswalb, P.F., Huttenlocher, D.P.: Efficient graph-based image segmentation. *Int. J. Comput. Vision* 59(2), 167–181 (September 2004)
- [3] Levinshtein, A., Stere, A., Kutulakos, K.N., Fleet, D.J., Dickinson, S.J., Siddiqi, K.: TurboPixels: Fast superpixels using geometric flows. *IEEE Trans. Pattern Anal. Mach. Intell.* 31(12), 2290–2297 (December 2009)
- [4] Liu, M.Y., Tuzel, O., Ramalingam, S., Chellappa, R.: Entropy rate superpixel segmentation. In: *CVPR*. pp. 2097–2104. IEEE Computer Society, Providence, RI (June 2011)
- [5] Mester, R., Conrad, C., Guevara, A.: Multichannel segmentation using contour relaxation: Fast super-pixels and temporal propagation. In: Heyden, A., Kahl, F. (eds.) *SCIA, LNCS*, vol. 6688, pp. 250–261. Springer, Berlin, Heidelberg, Germany (May 2011)
- [6] Papon, J., Abramov, A., Schoeler, M., Wörgötter, F.: Voxel cloud connectivity segmentation - supervoxels for point clouds. In: *CVPR*. pp. 2027–2034. IEEE Computer Society, Portland, Oregon (June 2013)
- [7] Ren, X., Malik, J.: Learning a classification model for segmentation. In: *ICCV*. pp. 10–17. IEEE Computer Society, Nice, France (October 2003)
- [8] Stutz, D.: Superpixel segmentation using depth information. B.Sc. thesis, Computer Vision Group, RWTH Aachen University, Aachen, Germany (September 2014). <http://davidstutz.de/projects/superpixelsseeds/>
- [9] Tang, D., Fu, H., Cao, X.: Topology preserved regular superpixel. In: *ICME*. pp. 765–768. IEEE Computer Society, Melbourne, Australia (July 2012)
- [10] Van den Bergh, M., Boix, X., Roig, G., de Capitani, B., van Gool, L.: SEEDS: Superpixels extracted via energy-driven sampling. In: Fitzgibbon, A.W., Lazebnik, S., Perona, P., Sato, Y., Schmid, C. (eds.) *ECCV, LNCS*, vol. 7578, pp. 13–26. Springer, Berlin, Heidelberg, Germany (2012)
- [11] Vedaldi, A., Soatto, S.: Quick shift and kernel methods for mode seeking. In: Forsyth, D.A., Torr, P.H.S., Zisserman, A. (eds.) *ECCV, LNCS*, vol. 5305, pp. 705–718. Springer, Berlin, Heidelberg, Germany (October 2008)
- [12] Veksler, O., Boykov, Y., Mehrani, P.: Superpixels and supervoxels in an energy optimization framework. In: Daniilidis, K., Maragos, P., Paragios, N. (eds.) *ECCV, LNCS*, vol. 6315, pp. 211–224. Springer, Berlin, Heidelberg, Germany (September 2010)
- [13] Weikersdorfer, D., Gossow, D., Beetz, M.: Depth-adaptive superpixels. In: *ICPR*. pp. 2087–2090. IEEE Computer Society, Tsukuba, Japan (November 2012)
- [14] Zhang, Y., Hartley, R., Mashford, J., Burn, S.: Superpixels via pseudo-boolean optimization. In: *ICCV*. pp. 1387–1394. IEEE Computer Society, Barcelona, Spain (November 2011)