GMM & Graph Cuts links:

<http://bitsearch.blogspot.co.il/2014/01/understanding-graph-cuts-for-image.html>

info + implemantations

<http://docs.opencv.org/2.4/modules/imgproc/doc/miscellaneous_transformations.html#grabcut>

*This is a tutorial on using Graph-Cuts and Gaussian-Mixture-Models for image segmentation with OpenCV in C++ environment :*

<http://www.morethantechnical.com/2010/05/05/bust-out-your-own-graphcut-based-image-segmentation-with-opencv-w-code/>

<http://www.csd.uwo.ca/~yuri/Abstracts/pami01-abs.shtml>

code, for research only:

<http://vision.csd.uwo.ca/code/>

usage demo: <https://www.youtube.com/watch?v=kAwxLTDDAwU>

<https://www.youtube.com/watch?v=aOqOwM-Qbtg>

**2 print:** [**http://docs.opencv.org/3.1.0/d8/d83/tutorial\_py\_grabcut.html#gsc.tab=0**](http://docs.opencv.org/3.1.0/d8/d83/tutorial_py_grabcut.html#gsc.tab=0)

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~ <http://www.morethantechnical.com/2015/02/07/simplest-20-lines-opencv-video-stabilizer-w-code/>

info:

<https://en.wikipedia.org/wiki/Mixture_model>

the article "GrabCut": interactive foreground extraction using iterated graph cuts:

<https://cvg.ethz.ch/teaching/cvl/2012/grabcut-siggraph04.pdf>

c++ time measure :

<http://stackoverflow.com/questions/1861294/how-to-calculate-execution-time-of-a-code-snippet-in-c>

**GMM**:

<http://docs.opencv.org/3.0-beta/modules/ml/doc/expectation_maximization.html>

**optical flow** types and info:

<http://docs.opencv.org/3.0-beta/modules/video/doc/motion_analysis_and_object_tracking.html?highlight=calcopticalflowfarneback#cv2.calcOpticalFlowFarneback>

<http://docs.opencv.org/3.0-beta/modules/optflow/doc/dense_optflow.html>

**superPixels:**

<https://www.tu-chemnitz.de/etit/proaut/forschung/rsrc/neubert_protzel_superpixel.pdf>

SLIC:

<http://stackoverflow.com/questions/27619027/opencv-slic-code>

code:<https://github.com/PSMM/SLIC-Superpixels>

[**http://www.jayrambhia.com/blog/superpixels-slic/**](http://www.jayrambhia.com/blog/superpixels-slic/)

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py: <http://www.pyimagesearch.com/2014/07/28/a-slic-superpixel-tutorial-using-python/>

general book : [http://download.springer.com/static/pdf/94/bok%253A978-1-4302-5930-5.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Fbook%2F10.1007%2F978-1-4302-5930-5&token2=exp=1457322725~acl=%2Fstatic%2Fpdf%2F94%2Fbok%25253A978-1-4302-5930-5.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Fbook%252F10.1007%252F978-1-4302-5930-5\*~hmac=0cfef6f48817a471bd55d16a1a6f1263292f4fd3eac3b320167af7e47e3b45b0](http://download.springer.com/static/pdf/94/bok%253A978-1-4302-5930-5.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Fbook%2F10.1007%2F978-1-4302-5930-5&token2=exp=1457322725~acl=%2Fstatic%2Fpdf%2F94%2Fbok%25253A978-1-4302-5930-5.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Fbook%252F10.1007%252F978-1-4302-5930-5*~hmac=0cfef6f48817a471bd55d16a1a6f1263292f4fd3eac3b320167af7e47e3b45b0)

other(with code) : <https://github.com/davidstutz/seeds-revised>

<http://docs.opencv.org/3.0-beta/modules/ximgproc/doc/superpixels.html>

turbopixels on gpu : <https://github.com/alvarocollet/gpu_turbopixels>

general motion detection:

<http://www.codeproject.com/Articles/10248/Motion-Detection-Algorithms>

<http://www.codeproject.com/Articles/339206/An-Introduction-to-OpenCV-Displaying-and-Manipula>

<http://www.codeproject.com/Articles/526218/An-introduction-to-OpenCV-Part-II-Implementing-mou>