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What energy functions can be minimized via graph cuts?

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#	Paper	IF	Citations
2173	A correlation-based model prior for stereo.		6
2172	Automatic passive recovery of 3D from images and video.		29
2171	Exact Optimization of Discrete Constrained Total Variation Minimization Problems. <i>Lecture Notes in Computer Science</i> , 2004 , 548-557	0.9	13
2170	A survey of motion-parallax-based 3-D reconstruction algorithms. 2004 , 34, 532-548		27
2169	Multigrid and multi-level Swendsen-Wang cuts for hierarchic graph partition.		8
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2167	Interactive Image Segmentation Using an Adaptive GMMRF Model. <i>Lecture Notes in Computer Science</i> , 2004 , 428-441	0.9	156
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1587	Tumor segmentation using the learned distance metric. 2011 ,	1
1586	Robust piecewise planar stereo with modified segmentation cues in urban scenes. 2011 ,	
1585	. 2011 ,	9
1584	Integrating local classifiers through nonlinear dynamics on label graphs with an application to image segmentation. 2011 ,	
1583	Generalized roof duality for pseudo-boolean optimization. 2011 ,	22
1582	Enhanced visual scene understanding through human-robot dialog. 2011 ,	10
1581	Adequate reconstruction of transparent objects on a shoestring budget. 2011 ,	15

1580	Anisotropic reaction-diffusion stereo algorithm. 2011,	
1579	Image Segmentation Using Energy Minimization and Markov Random Fields. 2011,	
1578	Simultaneous Multi-class Pixel Labeling over Coherent Image Sets. 2011,	1
1577	Image super-segmentation: Segmentation with multiple labels from shuffled observations. 2011,	2
1576	Curvilinear structures extraction in cluttered bioimaging data with discrete optimization methods. 2011,	5
1575	Automatic generation of privacy-protected videos using background estimation. 2011,	8
1574	From co-saliency to co-segmentation: An efficient and fully unsupervised energy minimization model. 2011,	121
1573	Inference for order reduction in Markov random fields. 2011,	21
1572	MRF-based automatic image ordering and its application to mosaicing. 2011,	
1571	Enforcing topological constraints in random field image segmentation. 2011,	21
1570	Segmentation process for SAR imagery based on graph cuts algorithm. 2011,	1
1569	Extracting foreground masks towards object recognition. 2011,	29
1568	Distributed message passing for large scale graphical models. 2011,	32
1567	Probabilistic image segmentation with closedness constraints. 2011,	52
1566	Nonrigid registration of CLSM images of physical sections with discontinuous deformations. 2011, 17, 923-36	3
1565	Nonsingle viewpoint omni-stereo depth estimation via space layer labeling. 2011, 50, 047005	2
1564	Segmenting moving objects from a freely moving camera with an effective segmentation cue. 2011 , 22, 025108	5
1563	Dense and refined microstructure 3D measurement method based on an optical microscope and varying illuminations. 2011, 22, 035306	2

1562	Object Class Segmentation Using Reliable Regions. <i>Lecture Notes in Computer Science</i> , 2011 , 123-136	0.9
1561	Multiple structure tracing in 3D electron micrographs. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 613-209	3
1560	Identifying disease-associated SNP clusters via contiguous outlier detection. 2011 , 27, 2578-85	6
1559	A Novel Image Fusion Method Using Beamlet Transform and Graph Cuts. 2011 , 467-469, 1092-1096	2
1558	Tomographic bioluminescence imaging reconstruction via a dynamically sparse regularized global method in mouse models. 2011 , 16, 046016	15
1557	Higher Order CRF for Surface Reconstruction from Multi-view Data Sets. 2011 ,	0
1556	An open framework for 3D Craniofacial visualization system. 2011 ,	
1555	Multi-level inference by relaxed dual decomposition for human pose segmentation. 2011 ,	23
1554	Face recognition with continuous occlusion using partially iteratively reweighted sparse coding. 2011 ,	
1553	Active learning for piecewise planar 3D reconstruction. 2011 ,	19
1552	Scribble based interactive 3D reconstruction via scene co-segmentation. 2011 ,	3
1551	Kernelized structural SVM learning for supervised object segmentation. 2011 ,	54
1550	Track to the future: Spatio-temporal video segmentation with long-range motion cues. 2011 ,	108
1549	Microscopic photometric stereo: A dense microstructure 3D measurement method. 2011 ,	1
1548	Patch-based Markov random fields for fast face occlusion recovery. 2011 ,	
1547	Segmentation-based online change detection for mobile robots. 2011 ,	6
1546	Accurate face segmentation based on fusion of improved GrabCut and ASM. 2011 ,	1
1545	GrabCut-based human segmentation in video sequences. 2012 , 12, 15376-93	22

1544	Conditional random field-based image labelling combining features of pixels, segments and regions. 2012 , 6, 459-467		8
1543	Semantic Image Segmentation Using Visible and Near-Infrared Channels. <i>Lecture Notes in Computer Science</i> , 2012 , 461-471	0.9	13
1542	A Game-Theoretical Approach to Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2012 , 33-42	0.9	1
1541	Graph-cut-based normalized coupled-curve evolution model. 2012 , 51, 027005		
1540	Visual Dictionary Learning for Joint Object Categorization and Segmentation. <i>Lecture Notes in Computer Science</i> , 2012 , 718-731	0.9	8
1539	3D City Modeling from Street-Level Data for Augmented Reality Applications. 2012 ,		9
1538	Large-scale simultaneous multi-object recognition and localization via bottom up search-based approach. 2012 ,		2
1537	Interactive semiautomatic contour delineation using statistical conditional random fields framework. 2012 , 39, 4547-58		15
1536	Error-tolerant interactive image segmentation using dynamic and iterated graph-cuts. 2012 ,		13
1535	Panorama weaving. 2012 , 31, 1-11		25
1534	Automatic calculation of tree diameter from stereoscopic image pairs using digital image processing. 2012 , 51, 4120-8		2
1533	A color grouping method for detection of object regions based on local saliency. 2012 ,		
1532	MAP-MRF inference based on extended junction tree representation. 2012 ,		
1531	A new global energy optimization framework for stereo disparity estimation. 2012 ,		
1530	Hippocampus segmentation by optimizing the local contribution of image and prior terms, through graph cuts and multi-atlas. 2012 ,		1
1529	Symbolic features for classification of medical X-ray body organ images. 2012 ,		
1528	. 2012 ,		198
1527	Image search results refinement via outlier detection using deep contexts. 2012 ,		

1526	Discrete image reconstruction for material quantification. 2012,		1
1525	The Research of Video Object Segmentation Based on Shape Confidence. 2012,		
1524	Higher-order density consistency potentials for Discrete Tomography. 2012,		
1523	Integrated segmentation of noisy image based on the spatial relationship. 2012,		
1522	Structured Image Segmentation Using Kernelized Features. <i>Lecture Notes in Computer Science,</i> 2012, 400-413	0.9	29
1521	Accurate coronary centerline extraction, caliber estimation and catheter detection in angiographies. 2012, 16, 1332-40		40
1520	A web interface for 3D visualization and interactive segmentation of medical images. 2012,		17
1519	Digital reconstruction of halftoned color comics. 2012, 31, 1-10		21
1518	Reconstruction of passive millimeter-wave images with Graph Cuts. 2012,		2
1517	Learning object relationships via graph-based context model. 2012,		3
1516	On the Repeatability of 3D Point Cloud Segmentation Based on Interest Points. 2012,		4
1515	Matching of irreversibly deformed images in microscopy based on piecewise monotone subgradient optimization using parallel processing. 2012,		
1514	Multiclass pixel labeling with non-local matching constraints. 2012,		11
1513	Simplified markov random fields for efficient semantic labeling of 3D point clouds. 2012,		24
1512	Image segmentation by combining the strengths of Relative Fuzzy Connectedness and Graph Cut. 2012,		4
1511	Multiple-domain knowledge based MRF model for tumor segmentation in breast ultrasound images. 2012,		12
1510	Non-heuristic reduction of the graph in graph-cut optimization. 2012, 386, 012002		1
1509	OPTIMAL ALLOCATION PROBLEM WITH QUADRATIC UTILITY FUNCTIONS AND ITS RELATIONSHIP WITH GRAPH CUT PROBLEM. 2012, 55, 92-105		1

1508	3D Mesh Segmentation Based on Markov Random Fields and Graph Cuts. 2012 , E95-D, 703-706		
1507	Generating a relative geologic time volume by 3D graph-cut phase unwrapping method with horizon and unconformity constraints. 2012 , 77, O21-O34		42
1506	FTV (free-viewpoint television). 2012 , 1,		14
1505	WITHDRAWN: Multiple piecewise constant with geodesic active contours (MPC-GAC) framework for interactive image segmentation using graph cut optimization. 2012 ,		
1504	Vision-Based 3D Peach Tree Reconstruction for Automated Blossom Thinning. 2012 , 8, 188-196		30
1503	Three-dimensional segmentation of fluid-associated abnormalities in retinal OCT: probability constrained graph-search-graph-cut. 2012 , 31, 1521-31		138
1502	Enhancement of Depth Maps With Alpha Channel Estimation for 3-D Video. 2012 , 6, 483-494		3
1501	CPMC: Automatic Object Segmentation Using Constrained Parametric Min-Cuts. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2012 , 34, 1312-28	13.3	393
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1498	Accounting for Social, Spatial, and Textual Interconnections. 2012 , 483-765		
1497	Global optimization for bidirectional stereo matching with occlusion handling. 2012 ,		
1496	Automatic brain caudate nuclei segmentation and classification in diagnostic of Attention-Deficit/Hyperactivity Disorder. 2012 , 36, 591-600		18
1495	Combining Monocular Geometric Cues with Traditional Stereo Cues for Consumer Camera Stereo. <i>Lecture Notes in Computer Science</i> , 2012 , 103-113	0.9	1
1494	Move-Based Algorithms for the Optimization of an Isotropic Gradient MRF Model. 2012 ,		
1493	A distribution-matching approach to MRI brain tumor segmentation. 2012 ,		6
1492	Learning to segment dense cell nuclei with shape prior. 2012 ,		1
1491	Microscopic Image Segmentation with Two-Level Enhancement of Feature Discriminability. 2012 ,		5

1490	Supervised brain segmentation and classification in diagnostic of Attention-Deficit/Hyperactivity Disorder. 2012,	4
1489	Reconstructing Graphs from Neighborhood Data. 2012,	4
1488	Object-centered narratives for video surveillance. 2012,	6
1487	Simultaneous image segmentation and 3D plane fitting for RGB-D sensors [An iterative framework. 2012,	3
1486	Markov random field models for supervised land cover classification from very high resolution multispectral remote sensing images. 2012,	2
1485	SEQM: Edge quality assessment based on structural pixel matching. 2012,	4
1484	Diffeomorphic surface-based registration for MR-US fusion in prostate brachytherapy. 2012,	4
1483	BhadowCut[an unsupervised object segmentation algorithm for aerial robotic surveillance applications. 2012,	
1482	Locality-constrained and spatially regularized coding for scene categorization. 2012,	56
1481	Reliability based graph-cuts algorithm for stereo. 2012,	
1480	A surface-based vacant space detection for an intelligent parking lot. 2012,	10
1479	Object localization in medical images based on graphical model with contrast and interest-region terms. 2012,	10
1478	Research of Cardiac Aided Diagnosis System Based on CUDA. 2012,	
1477	A framework of whole heart extracellular volume fraction estimation for low-dose cardiac CT images. 2012, 16, 842-51	10
1476	Topology preserving brain tissue segmentation using graph cuts. 2012,	
1475	Shape matching of repeatable interest segments in 3D point clouds. 2012,	1
1474	Figure-ground segmentation by transferring window masks. 2012,	63
1473	Multi view registration for novelty/background separation. 2012,	2

1472	Non-rigid biomedical image registration using graph cuts with a novel data term. 2012,	6
1471	Image segmentation with background correction using a multiplicative smoothing-spline model. 2012,	2
1470	Detection of microcalcification in mammogram images using semi-automated texture based Grabcut Segmentation. 2012,	1
1469	A Graph Based Classification Method for Hyperspectral Images. 2012,	1
1468	Image segmentation via ant colony algorithm and loopy belief propagation algorithm. 2012,	
1467	Online surveillance video synopsis. 2012,	14
1466	Segmentation of synchrotron radiation micro-computed tomography images using energy minimization via graph cuts. 2012, 70, 1284-7	2
1465	Foreground object detection using top-down information based on EM framework. 2012, 21, 4204-17	47
1464	Unsupervised change detection with high-resolution SAR images by edge-preserving Markov random fields and graph-cuts. 2012,	4
1463	Automatic mitral leaflet tracking in echocardiography by outlier detection in the low-rank representation. 2012,	2
1462	Top-down visual saliency via joint CRF and dictionary learning. 2012,	37
1461	Space-Time Joint Multi-layer Segmentation and Depth Estimation. 2012,	7
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1459	Generalized edge-weighted centroidal Voronoi tessellations for geometry processing. 2012, 64, 2663-2681	3
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1457	A 3D interactive multi-object segmentation tool using local robust statistics driven active contours. 2012, 16, 1216-27	56
1456	Generic Cuts: An Efficient Algorithm for Optimal Inference in Higher Order MRF-MAP. <i>Lecture Notes in Computer Science,</i> 2012, 17-30	0.9 6
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1453	An automatic method for renal cortex segmentation on CT images: evaluation on kidney donors. 2012 , 19, 562-70		22
1452	Location classification of lung nodules with optimized graph construction. 2012 ,		10
1451	Statistical, neural, and combined filtering algorithms for applicative image noise. 2012 , 48, 550-558		1
1450	Three-Dimensional Ultrasound Plaque Characterization. 2012 , 203-221		1
1449	Foreground segmentation for dynamic scenes with sudden illumination changes. 2012 , 6, 606		6
1448	Mutual Information Based Stereo Correspondence in Extreme Cases. 2012 ,		2
1447	3D Shape Reconstruction from Multi-view Video Data. 2012 , 91-149		
1446	Optimized anaglyph colorization. 2012 ,		1
1445	Text Segmentation from Image with Complex Background Based on Markov Random Fields. 2012 ,		
1444	Bayesian Defogging. 2012 , 98, 263-278		345
1443	Minimizing Energies with Hierarchical Costs. 2012 , 100, 38-58		25
1442	Combinatorial mesh optimization. 2012 , 28, 511-525		7
1441	Shape extraction of low-textured objects in video microscopy. 2012 , 245, 252-264		7
1440	Building semantic scene models from unconstrained video. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 446-456	4-3	3
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1436	3D segmentation of SBFSEM images of neuropil by a graphical model over supervoxel boundaries. 2012 , 16, 796-805			33
1435	An RSVM based two-teachers-one-student semi-supervised learning algorithm. 2012 , 25, 57-69			9
1434	Neighborhood-consensus message passing as a framework for generalized iterated conditional expectations. 2012 , 33, 309-318			2
1433	Smooth Chan-Vese segmentation via graph cuts. 2012 , 33, 1405-1410			14
1432	FTV for 3-D Spatial Communication. 2012 , 100, 905-917			61
1431	Embedding topic discovery in conditional random fields model for segmenting nuclei using multispectral data. 2012 , 59, 1539-49			10
1430	Spectral-Spatial Hyperspectral Image Segmentation Using Subspace Multinomial Logistic Regression and Markov Random Fields. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 809-823	8.1		489
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1428	Iterative narrowband-based graph cuts optimization for geodesic active contours with region forces (GACWRF). 2012 , 21, 284-96			24
1427	Integrating segmentation information for improved MRF-based elastic image registration. 2012 , 21, 170-83			40
1426	A coding-cost framework for super-resolution motion layer decomposition. 2012 , 21, 1097-110			5
1425	Medical image segmentation by combining graph cuts and oriented active appearance models. 2012 , 21, 2035-46			143
1424	Medial-based deformable models in nonconvex shape-spaces for medical image segmentation. 2012 , 31, 33-50			21
1423	Automated brain structure segmentation based on atlas registration and appearance models. 2012 , 31, 276-86			44
1422	Supervoxel-based segmentation of mitochondria in em image stacks with learned shape features. 2012 , 31, 474-86			149
1421	Tracking monotonically advancing boundaries in image sequences using graph cuts and recursive kernel shape priors. 2012 , 31, 1008-20			4
1420	A multistage discriminative model for tumor and lymph node detection in thoracic images. 2012 , 31, 1061-75			36
1419	How Not to Be Seen [Object Removal from Videos of Crowded Scenes. 2012 , 31, 219-228			34

1418	Fast Approximate Energy Minimization with Label Costs. 2012 , 96, 1-27		269
1417	Domain decomposition methods with graph cuts algorithms for total variation minimization. 2012 , 36, 175-199		14
1416	Compact video synopsis via global spatiotemporal optimization. 2013 , 19, 1664-76		61
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1410	Robust inside-outside segmentation using generalized winding numbers. 2013 , 32, 1-12		81
1409	Interactive object extraction by merging regions with k-global maximal similarity. 2013 , 120, 610-623		2
1408	Region-based progressive localization of cell nuclei in microscopic images with data adaptive modeling. 2013 , 14, 173		24
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1406	Reconstructing Open Surfaces via Graph-Cuts. 2013 , 19, 306-18		7
1405	TACI: Taxonomy-Aware Catalog Integration. 2013 , 25, 1643-1655		4
1404	Image classification using three order statistics in non-Euclidean spaces. 2013 ,		
1403	Semi-automatic segmentation of brain tumors using population and individual information. 2013 , 26, 786-96		15
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1398	Spine detection in CT and MR using iterated marginal space learning. 2013 , 17, 1283-92		85
1397	Radiative transfer and optical imaging in biological media by low-order transport approximations: the simplified spherical harmonics (SPN) approach. 2013 , 269-315		3
1396	Skeleton correspondence construction and its applications in animation style reusing. 2013 , 120, 461-468		1
1395	Window annealing for pixel-labeling problems. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 289-303	4.3	1
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1389	Who Blocks Who: Simultaneous Segmentation of Occluded Objects. 2013 , 28, 890-906		
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1381	A relaxed factorial Markov random field for colour and depth estimation from a single foggy image. 2013 ,		3
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1372	Image Segmentation with Automatically Balanced Constraints. 2013 ,		4
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1370	Spatially consistent exemplar-based clustering. 2013 ,		
1369	From stixels to objects [A conditional random field based approach. 2013 ,		10
1368	Decomposing Bag of Words Histograms. 2013 ,		1
1367	A Multiple Object Geometric Deformable Model for Image Segmentation. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 145-157	4.3	53
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1363	Supersparsing. 2013 , 101, 329-349	146
1362	Droque detection for vision-based autonomous aerial refueling via low rank and sparse decomposition with multiple features. 2013 , 60, 266-274	14
1361	DSA image registration using non-uniform MRF model and pivotal control points. 2013 , 37, 323-36	2
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1353	A Graph-Based Brain Parcellation Method Extracting Sparse Networks. 2013 ,	
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1351	A Bayesian framework for dense depth estimation based on spatial-temporal correlation. 2013 , 104, 1-9	11
1350	Hierarchical MRF of globally consistent localized classifiers for 3D medical image segmentation. 2013 , 46, 2408-2419	12
1349	Image segmentation using adaptive loopy belief propagation. 2013 , 124, 5732-5738	
1348	Voxel classification and graph cuts for automated segmentation of pathological periprosthetic hip anatomy. 2013 , 8, 63-74	6
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1340	SOM and fuzzy based color image segmentation. 2013 , 64, 331-344		17
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1331	A convex relaxation method for computing exact global solutions for multiplicative noise removal. 2013 , 238, 144-155		1
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1329	Synthetic aperture imaging using pixel labeling via energy minimization. 2013 , 46, 174-187		24

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1325	Efficient GPU-Based Graph Cuts for Stereo Matching. 2013 ,	1
1324	Object classification with metric and semantic inference. 2013 ,	
1323	. 2013 , 6, 1440-1449	89
1322	Feature selection using graph cuts based on relevance and redundancy. 2013 ,	3
1321	Seamless texturing of archaeological data. 2013 ,	2
1320	Detecting Changes in 3D Structure of a Scene from Multi-view Images Captured by a Vehicle-Mounted Camera. 2013 ,	27
1319	Occluded object imaging via optimal camera selection. 2013 ,	
1318	Multi-view urban scene reconstruction in non-uniform volume. 2013 ,	
1317	Tissue segmentation of head and neck CT images for treatment planning: a multiatlas approach combined with intensity modeling. 2013 , 40, 071905	78
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1315	Runtime guarantees for regression problems. 2013 ,	11
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1313	Fast and efficient computation of stereo depth maps. 2013 ,	
1312	A generalized hybrid algorithm for bioluminescence tomography. 2013 , 4, 709-24	5
1311	Automated video looping with progressive dynamism. 2013 , 32, 1-10	27

1310	Consistent stereo image editing. 2013,	3
1309	PolyCut. 2013, 32, 1-12	60
1308	Depth synthesis and local warps for plausible image-based navigation. 2013, 32, 1-12	155
1307	Image Stereo Correspondence Method for Stereo Vision. 2013, 475-476, 337-341	0
1306	Analyzing growing plants from 4D point cloud data. 2013, 32, 1-10	46
1305	Painting Scene Recognition Using Homogenous Shapes. <i>Lecture Notes in Computer Science</i> , 2013, 262-273.9	4
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1303	Exemplar Cut. 2013,	5
1302	Neurofilament tracking by detection in fluorescence microscopy images. 2013,	
1301	A Survey of Urban Reconstruction. 2013, 32, 146-177	214
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