B S Manjunath

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 232
 12,306
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 108

 papers
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 g-index

 279
 14,700
 4.8
 6.3

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
232	Texture features for browsing and retrieval of image data. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 1996 , 18, 837-842	13.3	2226
231	Multisensor Image Fusion Using the Wavelet Transform. <i>Graphical Models</i> , 1995 , 57, 235-245		1053
230	Color and texture descriptors. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2001 , 11, 703-715	6.4	991
229	Unsupervised segmentation of color-texture regions in images and video. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2001 , 23, 800-810	13.3	868
228	Biological imaging software tools. <i>Nature Methods</i> , 2012 , 9, 697-710	21.6	377
227	The iPlant Collaborative: Cyberinfrastructure for Plant Biology. Frontiers in Plant Science, 2011, 2, 34	6.2	306
226	A contour-based approach to multisensor image registration. <i>IEEE Transactions on Image Processing</i> , 1995 , 4, 320-34	8.7	291
225	. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1991 , 13, 478-482	13.3	233
224	NeTra: a toolbox for navigating large image databases		227
223	Identification of piRNAs in the central nervous system. <i>Rna</i> , 2011 , 17, 1090-9	5.8	216
222	NeTra: A toolbox for navigating large image databases. <i>Multimedia Systems</i> , 1999 , 7, 184-198	2.2	207
221	A distributed database for bio-molecular images. SIGMOD Record, 2004, 33, 65-71	1.1	200
220	Variability in the control of cell division underlies sepal epidermal patterning in Arabidopsis thaliana. <i>PLoS Biology</i> , 2010 , 8, e1000367	9.7	188
219	EdgeFlow: a technique for boundary detection and image segmentation. <i>IEEE Transactions on Image Processing</i> , 2000 , 9, 1375-88	8.7	179
218	An efficient color representation for image retrieval. <i>IEEE Transactions on Image Processing</i> , 2001 , 10, 140-7	8.7	171
217	An Eigenspace Update Algorithm for Image Analysis. <i>Graphical Models</i> , 1997 , 59, 321-332		147
216	Bisque: a platform for bioimage analysis and management. <i>Bioinformatics</i> , 2010 , 26, 544-52	7.2	140

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215	Rotation-invariant texture classification using a complete space-frequency model. <i>IEEE Transactions on Image Processing</i> , 1999 , 8, 255-69	8.7	138	
214	Silencing of CDK5 reduces neurofibrillary tangles in transgenic alzheimer's mice. <i>Journal of Neuroscience</i> , 2010 , 30, 13966-76	6.6	130	
213	The multiRANSAC algorithm and its application to detect planar homographies 2005,		126	
212	Texture features and learning similarity 1996,		110	
211	YASS: Yet Another Steganographic Scheme That Resists Blind Steganalysis. <i>Lecture Notes in Computer Science</i> , 2007 , 16-31	0.9	108	
21 0	Hybrid LSTM and Encoder-Decoder Architecture for Detection of Image Forgeries. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 3286-3300	8.7	105	
209			97	
208	Peer group image enhancement. <i>IEEE Transactions on Image Processing</i> , 2001 , 10, 326-34	8.7	96	
207	Automated tool for the detection of cell nuclei in digital microscopic images: application to retinal images. <i>Molecular Vision</i> , 2006 , 12, 949-60	2.3	94	
206	A new approach to image feature detection with applications. <i>Pattern Recognition</i> , 1996 , 29, 627-640	7.7	90	
205	Shape prior segmentation of multiple objects with graph cuts 2008,		87	
204	Edge flow: A framework of boundary detection and image segmentation		84	
203	. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990 , 38, 1039-1049		83	
202	Robust image-adaptive data hiding using erasure and error correction. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 1627-39	8.7	81	
201	A texture descriptor for browsing and similarity retrieval. <i>Signal Processing: Image Communication</i> , 2000 , 16, 33-43	2.8	79	
200	A unified approach to boundary perception: edges, textures, and illusory contours. <i>IEEE Transactions on Neural Networks</i> , 1993 , 4, 96-108		78	
199	Modeling and Detection of Geospatial Objects Using Texture Motifs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006 , 44, 3706-3715	8.1	73	
198	MPEG-7 Homogeneous Texture Descriptor. <i>ETRI Journal</i> , 2001 , 23, 41-51	1.4	71	

197			67
196	Exploiting Spatial Structure for Localizing Manipulated Image Regions 2017 ,		61
195	A comparison of wavelet transform features for texture image annotation		56
194	Detection and Localization of Image Forgeries Using Resampling Features and Deep Learning 2017,		55
193	NeTra-V: toward an object-based video representation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 1998 , 8, 616-627	6.4	53
192	Spirittagger 2008 ,		51
191	'Print and Scan' Resilient Data Hiding in Images. <i>IEEE Transactions on Information Forensics and Security</i> , 2006 , 1, 464-478	8	51
190	Graph partitioning active contours (GPAC) for image segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2006 , 28, 509-21	13.3	51
189	Steganalysis for Markov cover data with applications to images. <i>IEEE Transactions on Information Forensics and Security</i> , 2006 , 1, 275-287	8	50
188	Detection of seam carving and localization of seam insertions in digital images 2009,		48
187	A biosegmentation benchmark for evaluation of bioimage analysis methods. <i>BMC Bioinformatics</i> , 2009 , 10, 368	3.6	47
186	A texture thesaurus for browsing large aerial photographs. <i>Journal of the Association for Information Science and Technology</i> , 1998 , 49, 633-648		46
185	Detection of hiding in the least significant bit. <i>IEEE Transactions on Signal Processing</i> , 2004 , 52, 3046-30)5¼ .8	46
184	. IEEE Transactions on Multimedia, 2005 , 7, 981-990	6.6	45
183	Utility of multispectral imaging for nuclear classification of routine clinical histopathology imagery. <i>BMC Cell Biology</i> , 2007 , 8 Suppl 1, S8		42
182	. IEEE Transactions on Multimedia, 2010 , 12, 184-193	6.6	41
181	A variational framework for multiregion pairwise-similarity-based image segmentation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 1400-14	13.3	40
180	VSGNet: Spatial Attention Network for Detecting Human Object Interactions Using Graph Convolutions 2020 ,		40

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179	Automated segmentation of brain MR images. Pattern Recognition, 1995, 28, 1825-1837	7.7	39
178	Content-based search of video using color, texture, and motion		37
177	Tools for texture- and color-based search of images 1997 , 3016, 496		34
176	Rotation-invariant texture classification using modified Gabor filters		32
175	. IEEE Transactions on Multimedia, 2016 , 18, 51-63	6.6	30
174	Peer group filtering and perceptual color image quantization		30
173	A texture thesaurus for browsing large aerial photographs. <i>Journal of the Association for Information Science and Technology</i> , 1998 , 49, 633-648		29
172	Data hiding in video		28
171	Efficient and Robust Detection of Duplicate Videos in a Large Database. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 870-885	6.4	27
170	Combinatorial Tau pseudophosphorylation: markedly different regulatory effects on microtubule assembly and dynamic instability than the sum of the individual parts. <i>Journal of Biological Chemistry</i> , 2011 , 286, 14257-70	5.4	27
169	An axiomatic approach to corner detection		27
168	SigMal 2013 ,		26
167	Variational image segmentation using boundary functions. <i>IEEE Transactions on Image Processing</i> , 1998 , 7, 1269-82	8.7	26
166	Color image segmentation		26
165	How Do Drivers Allocate Their Potential Attention? Driving Fixation Prediction via Convolutional Neural Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 2146-2154	6.1	26
164	Tau isoform-specific modulation of kinesin-driven microtubule gliding rates and trajectories as determined with tau-stabilized microtubules. <i>Cytoskeleton</i> , 2011 , 68, 44-55	2.4	25
163	A condition number for point matching with application to registration and postregistration error estimation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2003 , 25, 1437-1454	13.3	25
162	. IEEE Transactions on Multimedia, 2014 , 16, 403-412	6.6	24

161	Automatic video annotation through search and mining 2008,	24
160	SPAM: Signal Processing to Analyze Malware [Applications Corner]. <i>IEEE Signal Processing Magazine</i> , 9.4	23
159	Weakly Supervised Localization Using Deep Feature Maps. <i>Lecture Notes in Computer Science</i> , 2016 , 714-ଅଞ୍ରୀ	23
158	Improving Patch-Based Convolutional Neural Networks for MRI Brain Tumor Segmentation by Leveraging Location Information. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1449	20
157	Evaluation and benchmark for biological image segmentation 2008,	20
156	Provably Secure Steganography: Achieving Zero K-L Divergence using Statistical Restoration 2006,	20
155	Probabilistic occlusion boundary detection on spatio-temporal lattices 2009,	19
154	Robust embedded data from wavelet coefficients 1997 , 3312, 308	19
153	Further study on YASS: steganography based on randomized embedding to resist blind steganalysis 2008 ,	19
152	Texture-based pattern retrieval from image databases. <i>Multimedia Tools and Applications</i> , 1996 , 2, 35-51 _{2.5}	19
151	Weakly Supervised Graph Based Semantic Segmentation by Learning Communities of Image-Parts 2015 ,	17
150	Matrix Embedding With Pseudorandom Coefficient Selection and Error Correction for Robust and Secure Steganography. <i>IEEE Transactions on Information Forensics and Security</i> , 2010 , 5, 225-239	17
149	Characterizing spatial distributions of astrocytes in the mammalian retina. <i>Bioinformatics</i> , 2015 , 31, 2024731	16
148	2010,	16
147	. IEEE Transactions on Multimedia, 2013 , 15, 2046-2057	15
146	From Where and How to What We See 2013 ,	15
145	Eye tracking assisted extraction of attentionally important objects from videos 2015,	15
144	Video fingerprinting: features for duplicate and similar video detection and query-based video retrieval 2008 ,	15

143	Statistical restoration for robust and secure steganography 2005 ,		15
142	Steganalysis of quantization index modulation data hiding		15
141	A nonconservative flow field for robust variational image segmentation. <i>IEEE Transactions on Image Processing</i> , 2010 , 19, 478-90	8.7	14
140			14
139	Tracing Curvilinear Structures in Live Cell Images 2007,		14
138	Beyond Spatial Auto-Regressive Models: Predicting Housing Prices with Satellite Imagery 2017 ,		13
137	Three-dimensional Analysis and Reconstruction of Additively Manufactured Materials in the Cloud-Based BisQue Infrastructure. <i>Integrating Materials and Manufacturing Innovation</i> , 2019 , 8, 37-51	2.9	13
136	Synapse classification and localization in Electron Micrographs. <i>Pattern Recognition Letters</i> , 2014 , 43, 17-24	4.7	13
135	Automated tracking and modeling of microtubule dynamics		13
134	Estimating and undoing rotation for print-scan resilient data hiding		13
133	A Mathematical Comparison of Point Detectors		13
132	Subset selection for active object recognition		13
131	Affine-invariant curve matching		12
130	A robust data hiding technique using multidimensional lattices		12
129	An eigenspace update algorithm for image analysis		12
128	Browsing large satellite and aerial photographs		11
127	Model based dynamics analysis in live cell microtubule images. <i>BMC Cell Biology</i> , 2007 , 8 Suppl 1, S4		11
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125	. IEEE Transactions on Multimedia, 2018 , 20, 3057-3068	6.6	10
124	Unified hypergraph for image ranking in a multimodal context 2012 ,		10
123	On the Length and Area Regularization for Multiphase Level Set Segmentation. <i>International Journal of Computer Vision</i> , 2010 , 90, 267-282	10.6	10
122	High-volume data hiding in images: Introducing perceptual criteria into quantization based embedding 2002 ,		10
121	Color image embedding using multidimensional lattice structures		10
120	Image indexing using a texture dictionary 1995 , 2606, 288		10
119	Adaptive filtering and indexing for image databases 1995 , 2420, 12		10
118	Multicamera video summarization and anomaly detection from activity motifs. <i>ACM Transactions on Sensor Networks</i> , 2014 , 10, 1-30	2.9	9
117	Saccade gaze prediction using a recurrent neural network 2017 ,		9
116	Weakly Supervised Manifold Learning for Dense Semantic Object Correspondence 2017 ,		9
115	Robust Simultaneous Registration and Segmentation with sparse error reconstruction. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 425-36	13.3	9
114	Probabilistic subspace-based learning of shape dynamics modes for multi-view action recognition 2011 ,		9
113	A Motion Activity Descriptor and Its Extraction in Compressed Domain. <i>Lecture Notes in Computer Science</i> , 2001 , 450-457	0.9	9
112	. IEEE Transactions on Multimedia, 2015 , 17, 616-625	6.6	8
111	Eye-CU: Sleep pose classification for healthcare using multimodal multiview data 2016,		8
110	Calibrating a wide-area camera network with non-overlapping views using mobile devices. <i>ACM Transactions on Sensor Networks</i> , 2014 , 10, 1-24	2.9	8
109	Particle Filter Tracking with Online Multiple Instance Learning 2010 ,		8
108	Distributed particle filter tracking with online multiple instance learning in a camera sensor network 2010 ,		8

107	2009,		8
106	Improving re-sampling detection by adding noise 2010 ,		8
105	Estimation of optimum coding redundancy and frequency domain analysis of attacks for YASS - a randomized block based hiding scheme 2008 ,		8
104	Deformable trellis: open contour tracking in bio-image sequences. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	8
103	Drums, curve descriptors and affine invariant region matching. <i>Image and Vision Computing</i> , 2008 , 26, 347-360	3.7	8
102	Multi-Focus Imaging using Local Focus Estimation and Mosaicking 2006,		8
101	2007,		8
100	Dimensionality reduction for image retrieval		8
99			8
98	Robust dynamical model for simultaneous registration and segmentation in a variational framework: A Bayesian approach 2009 ,		7
97	VISNET: A distributed vision testbed 2008,		7
96	TRACING MICROTUBULES IN LIVE CELL IMAGES 2007,		7
95	Sleep Pose Recognition in an ICU Using Multimodal Data and Environmental Feedback. <i>Lecture Notes in Computer Science</i> , 2015 , 56-66	0.9	7
94	Accurate 3D Cell Segmentation Using Deep Features and CRF Refinement 2019,		6
93	Membrane segmentation via active learning with deep networks 2016,		6
92	Learning top down scene context for visual attention modeling in natural images 2013,		6
91	Unified probabilistic framework for simultaneous detection and tracking of multiple objects with application to bio-image sequences 2012 ,		6
90	Activity Analysis in Microtubule Videos by Mixture of Hidden Markov Models		6

89	LLRT based detection of LSB hiding		6
88	Category-based image retrieval		6
87	Modeling object classes in aerial images using texture motifs		6
86	Image adaptive high volume data hiding based on scalar quantization		6
85	Technique for image data hiding and reconstruction without host image 1999,		6
84	Drums and Curve Descriptors 2004 ,		6
83	Multicamera Video Summarization from Optimal Reconstruction. <i>Lecture Notes in Computer Science</i> , 2011 , 94-103	0.9	6
82	BisQue for 3D Materials Science in the Cloud: Microstructure P roperty Linkages. <i>Integrating Materials and Manufacturing Innovation</i> , 2019 , 8, 52-65	2.9	5
81	CellECT: cell evolution capturing tool. <i>BMC Bioinformatics</i> , 2016 , 17, 88	3.6	5
80	Anatomical Parts-Based Regression Using Non-Negative Matrix Factorization. <i>IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops</i> , 2010 , 2863-2870	1.3	5
79	Robust biological image sequence analysis using graph based approaches 2012,		5
78	NeTra-V: toward an object-based video representation 1997 , 3312, 202		5
77	Conditional iterative decoding of Two Dimensional Hidden Markov Models 2008,		5
76	Fast and Adaptive Pairwise Similarities for Graph Cuts-based Image Segmentation		5
75	Image segmentation using multi-region stability and edge strength		5
74			5
73	People Tracking in Camera Networks: Three Open Questions. <i>Computer</i> , 2015 , 48, 78-86	1.6	4
72	Object browsing and searching in a camera network using graph models 2012 ,		4

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71	Robust multiple object tracking by detection with interacting Markov chain Monte Carlo 2013,		4
70	Learning bottom-up text attention maps for text detection using stroke width transform 2013,		4
69	AN AUTOMATIC FEATURE BASED MODEL FOR CELL SEGMENTATION FROM CONFOCAL MICROSCOPY VOLUMES 2011 , 199-203	1.5	4
68	2006,		4
67	Joint source-channel coding scheme for image-in-image data hiding		4
66	On the Rayleigh nature of Gabor filter outputs		4
65	Nearest neighbor search for relevance feedback		4
64	Multiband Techniques for Texture Classification and Segmentation 2005, 455-470		4
63	Image segmentation using curve evolution and region stability		4
62	A linear program formulation for the segmentation of Ciona membrane volumes. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 444-51	0.9	4
61	Superpixel Embedding Network. IEEE Transactions on Image Processing, 2019,	8.7	4
60	Search Tracker: Human-Derived Object Tracking in the Wild Through Large-Scale Search and Retrieval. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 1803-1814	6.4	3
59	Marine Biodiversity Classification Using Dropout Regularization 2014,		3
58	Context-aware graph modeling for object search and retrieval in a wide area camera network 2013,		3
57	2015,		3
56	Simultaneous cell tracking and image alignment in 3D CLSM imagery of growing Arabidopsis thaliana sepals 2013 ,		3
55	Segmentation of ascidian notochord cells in DIC timelapse images. <i>Microscopy Research and Technique</i> , 2011 , 74, 727-34	2.8	3
54	Generalized simultaneous registration and segmentation 2010,		3

53	Spatio-temporal optical flow statistics (STOFS) for activity classification 2010,	3
52	Design and implementation of a wide area, large-scale camera network 2010 ,	3
51	Adding Gaussian noise to denoise DPEG for detecting image resizing 2009,	3
50	Double embedding in the quantization index modulation framework 2009,	3
49	Multiple structure tracing in 3D electron micrographs. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 613-209	3
48	A Variational Approach to Exploit Prior Information in Object-Background Segregation: Application to Retinal Images 2007 ,	3
47	Redundancy in All Pairs Fast Marching Method 2006 ,	3
46	Retina Layer Segmentation and Spatial Alignment of Antibody Expression Levels 2007,	3
45	A semantic representation for image retrieval	3
44	Using texture to annotate remote sensed datasets	3
43	Probabilistic motion parameter models for human activity recognition	3
42	Registration and fusion of multispectral images using a new control point assessment method derived from optical flow ideas 1999 ,	3
41	Approach to efficient storage, retrieval, and browsing of large-scale image databases 1995,	3
40	A Quantitative Object-Level Metric for Segmentation Performance and Its Application to Cell Nuclei 2007 , 208-219	3
39	MODEL-BASED TEXTURE SEGMENTATION AND CLASSIFICATION 1999, 249-282	3
38	An Adaptive Index Structure for High-Dimensional Similarity Search. <i>Lecture Notes in Computer Science</i> , 2001 , 71-78	3
37	An Order Preserving Bilinear Model for Person Detection in Multi-Modal Data 2018,	2
36	Multiple view discriminative appearance modeling with IMCMC for distributed tracking 2013,	2

35	Interactive graph cut segmentation of touching neuronal structures from electron micrographs 2010 ,		2
34	Graph cut segmentation of neuronal structures from transmission electron micrographs 2008,		2
33	Towards automated bioimage analysis: from features to semantics		2
32	Object-based representations of spatial images. Acta Astronautica, 2001, 48, 567-577	2.9	2
31	Representation of motion activity in hierarchical levels for video indexing and filtering		2
30	Image segmentation using curve evolution and flow fields		2
29	An efficient low-dimensional color indexing scheme for region-based image retrieval 1999,		2
28	Markov Random Fields and Neural Networks with Applications to Early Vision Problems. <i>Machine Intelligence and Pattern Recognition</i> , 1991 , 11, 155-174		2
27	Deep Eye-CU (DECU): Summarization of Patient Motion in the ICU. <i>Lecture Notes in Computer Science</i> , 2016 , 178-194	0.9	2
26	Acquisition, Reconstruction and Curation of Multimodal 3D TriBeam Data. <i>Microscopy and Microanalysis</i> , 2019 , 25, 354-355	0.5	1
25	Graphical Model-Based Tracking of Curvilinear Structures in Bio-image Sequences 2010 ,		1
24	A CURVICYLINDRICAL COORDINATE SYSTEM FOR THE VISUALIZATION AND SEGMENTATION OF THE ASCIDIAN TAIL 2011 , 182-186	1.5	1
23	Online parameter estimation in dynamic Markov Random Fields for image sequence analysis 2012,		1
22	An automatic method to learn and transfer the photometric appearance of partially overlapping images 2008 ,		1
21	Quantitative analysis of immunofluorescent retinal images		1
20	Video region segmentation by spatio-temporal watersheds		1
19	Normalized Texture Motifs and Their Application to Statistical Object Modeling		1
18	Texture Features for Image Retrieval313-344		1

17	Image processing in the Alexandria Digital Library project		1
16	Issues for image/video digital libraries		1
15	A Model Based Approach To Detecting Spinal Disk Degenerations From MRI Data		1
14			1
13	3D Grain Shape Generation in Polycrystals Using Generative Adversarial Networks. <i>Integrating Materials and Manufacturing Innovation</i> , 2022 , 11, 71	2.9	1
12	Color Image Segmentation Using Anisotropic Diffusion and Agglomerative Hierarchical Clustering. <i>Lecture Notes in Computer Science</i> , 2002 , 759-766	0.9	1
11	Duplicate Image Detection in Large Scale Databases. <i>Statistical Science and Interdisciplinary Research</i> , 2008 , 149-166		1
10	Unsupervised 3-D Feature Learning for Mild Traumatic Brain Injury. <i>Lecture Notes in Computer Science</i> , 2016 , 282-290	0.9	1
9	Scalable tracing of electron micrographs by fusing top down and bottom up cues using hypergraph diffusion. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 321-8	0.9	1
8	Seam Carving Detection and Localization Using Two-Stage Deep Neural Networks. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 381-394	0.2	1
7	Healthcare Event and Activity Logging. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2018 , 6, 1600212	3	О
6	A Computational Geometry Approach for Modeling Neuronal Fiber Pathways. <i>Lecture Notes in Computer Science</i> , 2021 , 12908, 175-185	0.9	O
5	Condition theory for image registration and post-registration error estimation 200-214		
4	Obtaining Higher Rates for Steganographic Schemes While Maintaining the Same Detectability. <i>Lecture Notes in Computer Science</i> , 2010 , 178-192	0.9	
3	Automated Segmentation and Connectivity Analysis for Normal Pressure Hydrocephalus. <i>BME Frontiers</i> , 2022 , 2022, 1-13	4.4	
2	Texture Classification and Segmentation: Tribulations, Triumphs and Tributes 2001 , 219-240		
1	The unique face-centered human strategy to search for people in the wild. <i>Journal of Vision</i> , 2018 , 18, 520	0.4	