

Brian C Lovell

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,251
citations

394421

19
h-index

330143

37
g-index

88
all docs

88
docs citations

88
times ranked

1894
citing authors

#	ARTICLE	IF	CITATIONS
1	Shadow detection: A survey and comparative evaluation of recent methods. Pattern Recognition, 2012, 45, 1684-1695.	8.1	313
2	Graph embedding discriminant analysis on Grassmannian manifolds for improved image set matching. , 2011, , .		202
3	Spatio-temporal covariance descriptors for action and gesture recognition. , 2013, , .		118
4	Domain Adaptation on the Statistical Manifold. , 2014, , .		98
5	Sparse Coding and Dictionary Learning for Symmetric Positive Definite Matrices: A Kernel Approach. Lecture Notes in Computer Science, 2012, , 216-229.	1.3	86
6	Improved Shadow Removal for Robust Person Tracking in Surveillance Scenarios. , 2010, , .		85
7	Fisher tensors for classifying human epithelial cells. Pattern Recognition, 2014, 47, 2348-2359.	8.1	79
8	Automatic classification of Human Epithelial type 2 cell Indirect Immunofluorescence images using Cell Pyramid Matching. Pattern Recognition, 2014, 47, 2315-2324.	8.1	75
9	Kernel analysis over Riemannian manifolds for visual recognition of actions, pedestrians and textures. , 2012, , .		68
10	Corner detection based on gradient correlation matrices of planar curves. Pattern Recognition, 2010, 43, 1207-1223.	8.1	64
11	Benchmarking human epithelial type 2 interphase cells classification methods on a very large dataset. Artificial Intelligence in Medicine, 2015, 65, 239-250.	6.5	60
12	Improved Foreground Detection via Block-Based Classifier Cascade With Probabilistic Decision Integration. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 83-93.	8.3	59
13	Faster ILOD: Incremental learning for object detectors based on faster RCNN. Pattern Recognition Letters, 2020, 140, 109-115.	4.2	56
14	A Low-Complexity Algorithm for Static Background Estimation from Cluttered Image Sequences in Surveillance Contexts. Eurasip Journal on Image and Video Processing, 2011, 2011, 1-14.	2.6	55
15	Classification of Human Epithelial type 2 cell indirect immunofluorescence images via codebook based descriptors. , 2013, , .		54
16	Robust image corner detection based on scale evolution difference of planar curves. Pattern Recognition Letters, 2009, 30, 449-455.	4.2	51
17	Kernel analysis on Grassmann manifolds for action recognition. Pattern Recognition Letters, 2013, 34, 1906-1915.	4.2	48
18	Investigating the relationships among the South Atlantic Magnetic Anomaly, southern nighttime midlatitude trough, and nighttime Weddell Sea Anomaly during southern summer. Journal of Geophysical Research, 2009, 114, .	3.3	37

#	ARTICLE	IF	CITATIONS
19	Discriminative Non-Linear Stationary Subspace Analysis for Video Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2353-2366.	13.9	37
20	Computer Aided Diagnosis for Anti-Nuclear Antibodies HEp-2 images: Progress and challenges. Pattern Recognition Letters, 2016, 82, 3-11.	4.2	36
21	Multi-Modal Joint Clustering With Application for Unsupervised Attribute Discovery. IEEE Transactions on Image Processing, 2018, 27, 4345-4356.	9.8	31
22	Clustering on Grassmann manifolds via kernel embedding with application to action analysis. , 2012, , .		30
23	HEp-2 staining pattern recognition at cell and specimen levels: Datasets, algorithms and results. Pattern Recognition Letters, 2016, 82, 12-22.	4.2	29
24	An investigation of the northern hemisphere midlatitude nighttime plasma density enhancements and their relations to the midlatitude nighttime trough during summer. Journal of Geophysical Research, 2009, 114, .	3.3	26
25	Distinctive plasma density features of the topside ionosphere and their electrodynamics investigated during southern winter. Journal of Geophysical Research, 2009, 114, .	3.3	20
26	Adaptive Patch-Based Background Modelling for Improved Foreground Object Segmentation and Tracking. , 2010, , .		19
27	Efficient clustering on Riemannian manifolds: A kernelised random projection approach. Pattern Recognition, 2016, 51, 333-345.	8.1	19
28	What is the best way for extracting meaningful attributes from pictures?. Pattern Recognition, 2017, 64, 314-326.	8.1	18
29	Formation and evolution of the ionospheric plasma density shoulder and its relationship to the superfountain effects investigated during the 6 November 2001 great storm. Journal of Geophysical Research, 2008, 113, .	3.3	17
30	Large-scale traveling ionospheric disturbances impacting equatorial ionization anomaly development in the local morning hours of the Halloween Superstorms on 29â€“30 October 2003. Journal of Geophysical Research, 2010, 115, .	3.3	17
31	Role of Spatiotemporal Oriented Energy Features for Robust Visual Tracking in Video Surveillance. , 2012, , .		17
32	Classifying Anti-nuclear Antibodies HEp-2 Images: A Benchmarking Platform. , 2014, , .		17
33	Visual learning and classification of human epithelial type 2 cell images through spontaneous activity patterns. Pattern Recognition, 2014, 47, 2325-2337.	8.1	17
34	Discovering discriminative cell attributes for HEp-2 specimen image classification. , 2014, , .		15
35	On robust biometric identity verification via sparse encoding of faces: Holistic vs local approaches. , 2012, , .		14
36	Positive and negative ionospheric storms occurring during the 15 May 2005 geomagnetic superstorm. Journal of Geophysical Research: Space Physics, 2015, 120, 7822-7837.	2.4	14

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37	Dynamic Amelioration of Resolution Mismatches for Local Feature Based Identity Inference. , 2010, , .		13
38	Investigating the Coupled Magnetosphereâ€¦Ionosphereâ€¦Thermosphere (Mâ€¦Iâ€¦T) System's Responses to the 20 November 2003 Superstorm. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029215.	2.4	13
39	EBIT: Weakly-supervised image translation with edge and boundary enhancement. Pattern Recognition Letters, 2020, 138, 534-539.	4.2	12
40	Object tracking via non-Euclidean geometry: A Grassmann approach. , 2014, , .		11
41	Investigating the development of doubleâ€¦peak subauroral ion drift (DSAID). Journal of Geophysical Research: Space Physics, 2017, 122, 4526-4542.	2.4	11
42	SID: Incremental learning for anchor-free object detection via Selective and Inter-related Distillation. Computer Vision and Image Understanding, 2021, 210, 103229.	4.7	11
43	Stormâ€¦enhanced plasma density and polar tongue of ionization development during the 15 May 2005 superstorm. Journal of Geophysical Research: Space Physics, 2015, 120, 5101-5116.	2.4	10
44	Stormâ€¦enhanced plasma density features, daytime polar cap plasma enhancements, and their underlying plasma flows investigated during superstorms. Journal of Geophysical Research, 2009, 114, .	3.3	9
45	A Benchmarking Platform for Mitotic Cell Classification of ANA IIF HEp-2 Images. , 2015, , .		9
46	A multiple covariance approach for cell detection of Gram-stained smears images. , 2015, , .		9
47	Investigating the southern daytime midlatitude trough's relation with the daytime Weddell Sea Anomaly during equinoxes. Journal of Geophysical Research, 2010, 115, .	3.3	8
48	Structured subauroral polarization streams and related auroral undulations occurring on the storm day of 21 January 2005. Journal of Geophysical Research: Space Physics, 2016, 121, 1680-1695.	2.4	8
49	Investigating the Development of Abnormal Subauroral Ion Drift (ASAIID) and Abnormal Subauroral Polarization Stream (ASAPS) During the Magnetically Active Times of September 2003. Journal of Geophysical Research: Space Physics, 2018, 123, 1566-1582.	2.4	8
50	Stormâ€¦enhanced plasma density features investigated during the Bastille Day Superstorm. Journal of Geophysical Research, 2010, 115, .	3.3	7
51	Random projections on manifolds of Symmetric Positive Definite matrices for image classification. , 2014, , .		7
52	A bag of cells approach for antinuclear antibodies HEpâ€¦2 image classification. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 549-557.	1.5	7
53	Investigating the Development of Abnormal Subauroral Ion Drifts (ASAIID) During the Magnetically Quiet Times of October 2003. Journal of Geophysical Research: Space Physics, 2019, 124, 715-733.	2.4	7
54	Novelty detection in human tracking based on spatiotemporal oriented energies. Pattern Recognition, 2015, 48, 812-826.	8.1	6

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55	International Contest on Pattern Recognition techniques for indirect immunofluorescence images analysis. , 2016, , .		6
56	Abnormal Subauroral Ion Drifts (ASAIID) and Pi2s During Cross-tail Current Disruptions Observed by Polar on the Magnetically Quiet Days of October 2003. Journal of Geophysical Research: Space Physics, 2019, 124, 6097-6116.	2.4	6
57	Investigating storm-enhanced density and polar tongue of ionization development during the 22 October 1999 great storm. Journal of Geophysical Research: Space Physics, 2015, 120, 1428-1444.	2.4	5
58	To face or not to face: Towards reducing false positive of face detection. , 2016, , .		5
59	Polar tongue of ionization (TOI) and associated Joule heating intensification investigated during the magnetically disturbed period of 1-2 October 2001. Journal of Geophysical Research: Space Physics, 2016, 121, 5897-5913.	2.4	4
60	Determining the best attributes for surveillance video keywords generation. , 2016, , .		4
61	DGDI: A Dataset for Detecting Glomeruli on Renal Direct Immunofluorescence. , 2018, , .		4
62	Complex Subauroral Flow Channel Structure Formed by Double-Peak Subauroral Ion Drifts (DSAIID) and Abnormal Subauroral Ion Drifts (ASAIID). Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	4
63	Magnetosphere-Ionosphere-Thermosphere (MIT) Coupling Leading to Equatorial Upward and Westward Drifting Supersonic Plasma Bubble Development and Amplified Subauroral Polarization Streams (SAPS) During the January 21, 2005 Moderate Storm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028548.	2.4	4
64	An Automatic Image Based Single Dilution Method for End Point Titre Quantitation of Antinuclear Antibodies Tests Using HEP-2 Cells. , 2011, , .		3
65	Storm-enhanced plasma density (SED) features, auroral and polar plasma enhancements, and rising topside bubbles of the 31 March 2001 superstorm. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
66	Equatorial westward electrojet impacting equatorial ionization anomaly development during the 6 April 2000 superstorm. Journal of Geophysical Research: Space Physics, 2013, 118, 7398-7409.	2.4	3
67	An Optimization Approach to Scanning Skin Direct Immunofluorescence Specimens. , 2015, , .		3
68	Investigating the polar ionosphere during the development of neutral density enhancements on 24-25 September 2000. Journal of Geophysical Research: Space Physics, 2017, 122, 4600-4616.	2.4	3
69	Subauroral Flow Channel Structures and Auroral Undulations Triggered by Kelvin-Helmholtz Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029144.	2.4	3
70	Traveling ionospheric disturbances and their relations to storm-enhanced density features and plasma density irregularities in the local evening and nighttime hours of the Halloween superstorms of 29-31 October 2003. Journal of Geophysical Research, 2010, 115, .	3.3	2
71	Perturbation electric fields and disturbance currents investigated during the 25 September 1998 great storm. Journal of Geophysical Research: Space Physics, 2014, 119, 8483-8498.	2.4	2
72	Large plasma density enhancements occurring in the northern polar region during the 6 April 2000 superstorm. Journal of Geophysical Research: Space Physics, 2014, 119, 4805-4818.	2.4	2

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73	Explicit discriminative representation for improved classification of manifold features. Pattern Recognition Letters, 2016, 80, 121-128.	4.2	2
74	High-Latitude Neutral Density Structures Investigated by Utilizing Multi-Instrument Satellite Data and NRLMSISE-00 Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 1663-1677.	2.4	2
75	Exploring Inter-Instance Relationships within the Query Set for Robust Image Set Matching. Sensors, 2019, 19, 5051.	3.8	2
76	Investigating Magnetosphere-Ionosphere-Thermosphere (MIT) Coupling Occurring During the 7 th November 2004 Superstorm. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027484.	2.4	2
77	Manifold convex hull (MACH): Satisfying a need for SPD. , 2016, , .		1
78	Landmark manifold: Revisiting the Riemannian manifold approach for facial emotion recognition. , 2016, , .		1
79	Polar Cap Energy Deposition Events During the 5 th -6 August 2011 Magnetic Storm. Journal of Geophysical Research: Space Physics, 2018, 123, 2351-2369.	2.4	1
80	Polar Ion Temperature Variations During the 22 January 2012 Magnetic Storm. Journal of Geophysical Research: Space Physics, 2018, 123, 7806-7824.	2.4	1
81	Investigating High-Latitude Energy Deposition Events Occurring During the 17 January 2005 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2018, 123, 6760-6775.	2.4	1
82	Investigating the Development of Distinctive Subauroral Flow Channels During the November 7 th , 2004 Superstorm. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA027821.	2.4	1
83	HIDDEN MARKOV MODELS FOR SPATIO-TEMPORAL PATTERN RECOGNITION. , 2005, , 25-40.		1
84	Ion temperature intensification in southern convection flow channels during the 1 October 2001 geomagnetic storm recovery phase. Journal of Geophysical Research: Space Physics, 2016, 121, 8871-8886.	2.4	0
85	Solving Classification Problems on Human Epithelial Type 2 Cells for Anti-Nuclear Antibodies Test: Traditional versus Contemporary Approaches. , 2017, , 605-632.		0
86	Investigating the Development of Localized Neutral Density Increases During the 24 August 2005 Geomagnetic Storm. Journal of Geophysical Research: Space Physics, 2017, 122, 11,765.	2.4	0
87	Early Experience of Depth Estimation on Intricate Objects using Generative Adversarial Networks. , 2018, , .		0