

Barbara Caputo

List of Publications by Year in descending order

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117
papers

7,990
citations

201674

27
h-index

155660

55
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122
all docs

122
docs citations

122
times ranked

5379
citing authors

#	ARTICLE	IF	CITATIONS
1	Pixel-by-Pixel Cross-Domain Alignment for Few-Shot Semantic Segmentation. , 2022, , .		11
2	Domain Generalization through Audio-Visual Relative Norm Alignment in First Person Action Recognition. , 2022, , .		15
3	Test-Time Adaptation for Egocentric Action Recognition. Lecture Notes in Computer Science, 2022, , 206-218.	1.3	3
4	A Contrastive Distillation Approach for Incremental Semantic Segmentation in Aerial Images. Lecture Notes in Computer Science, 2022, , 742-754.	1.3	4
5	Learning Semantics for Visual Place Recognition Through Multi-scale Attention. Lecture Notes in Computer Science, 2022, , 454-466.	1.3	5
6	MultiDIAL: Domain Alignment Layers for (Multisource) Unsupervised Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4441-4452.	13.9	10
7	Inferring Latent Domains for Unsupervised Deep Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 485-498.	13.9	17
8	Self-Supervised Learning Across Domains. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	18
9	Self-Supervised Joint Encoding of Motion and Appearance for First Person Action Recognition. , 2021, , .		5
10	On the Challenges of Open World Recognition Under Shifting Visual Domains. IEEE Robotics and Automation Letters, 2021, 6, 604-611.	5.1	2
11	N-ROD: a Neuromorphic Dataset for Synthetic-to-Real Domain Adaptation. , 2021, , .		4
12	DA4Event: Towards Bridging the Sim-to-Real Gap for Event Cameras Using Domain Adaptation. IEEE Robotics and Automation Letters, 2021, 6, 6616-6623.	5.1	8
13	A Survey on Deep Visual Place Recognition. IEEE Access, 2021, 9, 19516-19547.	4.2	76
14	Unsupervised Domain Adaptation Through Inter-Modal Rotation for RGB-D Object Recognition. IEEE Robotics and Automation Letters, 2020, 5, 6631-6638.	5.1	17
15	Boosting Deep Open World Recognition by Clustering. IEEE Robotics and Automation Letters, 2020, 5, 5985-5992.	5.1	14
16	IDDA: A Large-Scale Multi-Domain Dataset for Autonomous Driving. IEEE Robotics and Automation Letters, 2020, 5, 5526-5533.	5.1	30
17	Modeling the Background for Incremental Learning in Semantic Segmentation. , 2020, , .		128
18	Boosting binary masks for multi-domain learning through affine transformations. Machine Vision and Applications, 2020, 31, 1.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Gaze, visual, myoelectric, and inertial data of grasps for intelligent prosthetics. Scientific Data, 2020, 7, 43.	5.3	15
20	Towards Recognizing Unseen Categories in Unseen Domains. Lecture Notes in Computer Science, 2020, , 466-483.	1.3	32
21	Recurrent Convolutional Fusion for RGB-D Object Recognition. IEEE Robotics and Automation Letters, 2019, 4, 2878-2885.	5.1	24
22	Knowledge is Never Enough: Towards Web Aided Deep Open World Recognition. , 2019, , .		17
23	Hallucinating Agnostic Images to Generalize Across Domains. , 2019, , .		18
24	Domain Generalization by Solving Jigsaw Puzzles. , 2019, , .		389
25	AdaGraph: Unifying Predictive and Continuous Domain Adaptation Through Graphs. , 2019, , .		38
26	Adding New Tasks to a Single Network with Weight Transformations Using Binary Masks. Lecture Notes in Computer Science, 2019, , 180-189.	1.3	15
27	Towards Multi-source Adaptive Semantic Segmentation. Lecture Notes in Computer Science, 2019, , 292-301.	1.3	10
28	Domain Generalization with Domain-Specific Aggregation Modules. Lecture Notes in Computer Science, 2019, , 187-198.	1.3	34
29	Looking beyond appearances: Synthetic training data for deep CNNs in re-identification. Computer Vision and Image Understanding, 2018, 167, 50-62.	4.7	116
30	Robust Place Categorization With Deep Domain Generalization. IEEE Robotics and Automation Letters, 2018, 3, 2093-2100.	5.1	36
31	(DE) ² CO: Deep Depth Colorization. IEEE Robotics and Automation Letters, 2018, 3, 2386-2393.	5.1	21
32	From Source to Target and Back: Symmetric Bi-Directional Adaptive GAN. , 2018, , .		146
33	Boosting Domain Adaptation by Discovering Latent Domains. , 2018, , .		102
34	Kitting in the Wild through Online Domain Adaptation. , 2018, , .		37
35	Adaptive Deep Learning Through Visual Domain Localization. , 2018, , .		16
36	Best Sources Forward: Domain Generalization through Source-Specific Nets. , 2018, , .		59

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37	The Difficulty of Recognizing Grasps from sEMG during Activities of Daily Living. , 2018, , .		0
38	Learning Deep NBNN Representations for Robust Place Categorization. IEEE Robotics and Automation Letters, 2017, 2, 1794-1801.	5.1	26
39	On the Importance of Domain Adaptation in Texture Classification. Lecture Notes in Computer Science, 2017, , 380-390.	1.3	0
40	Scalable greedy algorithms for transfer learning. Computer Vision and Image Understanding, 2017, 156, 174-185.	4.7	8
41	Adaptive learning to speed-up control of prosthetic hands: A few things everybody should know. , 2017, 2017, 1130-1135.		9
42	Just DIAL: Domain Alignment Layers for Unsupervised Domain Adaptation. Lecture Notes in Computer Science, 2017, , 357-369.	1.3	27
43	Semi-automatic Training of an Object Recognition System in Scene Camera Data Using Gaze Tracking and Accelerometers. Lecture Notes in Computer Science, 2017, , 175-184.	1.3	5
44	Effect of clinical parameters on the control of myoelectric robotic prosthetic hands. Journal of Rehabilitation Research and Development, 2016, 53, 345-358.	1.6	49
45	When Naïve Bayes Nearest Neighbors Meet Convolutional Neural Networks. , 2016, , .		15
46	Learning the Roots of Visual Domain Shift. Lecture Notes in Computer Science, 2016, , 475-482.	1.3	17
47	Where Are We After Five Editions?: Robot Vision Challenge, a Competition that Evaluates Solutions for the Visual Place Classification Problem. IEEE Robotics and Automation Magazine, 2015, 22, 147-156.	2.0	10
48	Characterization of a Benchmark Database for Myoelectric Movement Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 73-83.	4.9	193
49	Transfer Learning Through Greedy Subset Selection. Lecture Notes in Computer Science, 2015, , 3-14.	1.3	9
50	Towards Learning Free Naive Bayes Nearest Neighbor-Based Domain Adaptation. Lecture Notes in Computer Science, 2015, , 320-331.	1.3	0
51	Stable myoelectric control of a hand prosthesis using non-linear incremental learning. Frontiers in Neurorobotics, 2014, 8, 8.	2.8	104
52	Multi-source Adaptive Learning for Fast Control of Prosthetics Hand. , 2014, , .		25
53	Scene Recognition with Naive Bayes Non-linear Learning. , 2014, , .		6
54	Classification of hand movements in amputated subjects by sEMG and accelerometers. , 2014, 2014, 3545-9.		31

#	ARTICLE	IF	CITATIONS
55	Natural control capabilities of robotic hands by hand amputated subjects. , 2014, 2014, 4362-5.		5
56	Learning to Learn, from Transfer Learning to Domain Adaptation: A Unifying Perspective. , 2014, , .		77
57	Learning Categories From Few Examples With Multi Model Knowledge Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 928-941.	13.9	142
58	ImageCLEF 2014: Overview and Analysis of the Results. Lecture Notes in Computer Science, 2014, , 192-211.	1.3	44
59	Movement Error Rate for Evaluation of Machine Learning Methods for sEMG-Based Hand Movement Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 735-744.	4.9	149
60	Electromyography data for non-invasive naturally-controlled robotic hand prostheses. Scientific Data, 2014, 1, 140053.	5.3	482
61	Improving Control of Dexterous Hand Prostheses Using Adaptive Learning. IEEE Transactions on Robotics, 2013, 29, 207-219.	10.3	70
62	From N to N+1: Multiclass Transfer Incremental Learning. , 2013, , .		75
63	Exploiting accelerometers to improve movement classification for prosthetics. , 2013, 2013, 6650476.		23
64	ImageCLEF 2013: The Vision, the Data and the Open Challenges. Lecture Notes in Computer Science, 2013, , 250-268.	1.3	18
65	Frustratingly Easy NBNN Domain Adaptation. , 2013, , .		55
66	Beyond Dataset Bias: Multi-task Unaligned Shared Knowledge Transfer. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	11
67	On the challenge of classifying 52 hand movements from surface electromyography. , 2012, 2012, 4931-7.		84
68	Building the Ninapro database: A resource for the biorobotics community. , 2012, , .		161
69	Leveraging over prior knowledge for online learning of visual categories. , 2012, , .		11
70	Indoor Scene Recognition using Task and Saliency-driven Feature Pooling. , 2012, , .		8
71	DIRAC: Detection and Identification of Rare Audio-Visual Events. Studies in Computational Intelligence, 2012, , 3-35.	0.9	0
72	Towards a Quantitative Measure of Rareness. Studies in Computational Intelligence, 2012, , 129-136.	0.9	0

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73	Towards semi-supervised learning of semantic spatial concepts. , 2011, , .		6
74	Using Object Affordances to Improve Object Recognition. IEEE Transactions on Autonomous Mental Development, 2011, 3, 207-215.	1.6	60
75	Transferring activities: Updating human behavior analysis. , 2011, , .		14
76	Multiclass transfer learning from unconstrained priors. , 2011, , .		77
77	A Large-Scale Database of Images and Captions for Automatic Face Naming. , 2011, , .		5
78	The more you learn, the less you store: Memory-controlled incremental SVM for visual place recognition. Image and Vision Computing, 2010, 28, 1080-1097.	4.5	35
79	On-line independent support vector machines. Pattern Recognition, 2010, 43, 1402-1412.	8.1	57
80	Guest Editorial Representations and Architectures for Cognitive Systems. IEEE Transactions on Autonomous Mental Development, 2010, 2, 265-266.	1.6	1
81	Learning methods for melanoma recognition. International Journal of Imaging Systems and Technology, 2010, 20, 316-322.	4.1	11
82	A realistic benchmark for visual indoor place recognition. Robotics and Autonomous Systems, 2010, 58, 81-96.	5.1	44
83	Classifying materials in the real world. Image and Vision Computing, 2010, 28, 150-163.	4.5	90
84	Multi-modal Semantic Place Classification. International Journal of Robotics Research, 2010, 29, 298-320.	8.5	121
85	Object recognition using visuo-affordance maps. , 2010, , .		4
86	Safety in numbers: Learning categories from few examples with multi model knowledge transfer. , 2010, , .		147
87	Overview of the First Workshop on Medical Content-Based Retrieval for Clinical Decision Support at MICCAI 2009. Lecture Notes in Computer Science, 2010, , 1-17.	1.3	9
88	Online-batch strongly convex Multi Kernel Learning. , 2010, , .		35
89	OM-2: An online multi-class Multi-Kernel Learning algorithm Luo Jie. , 2010, , .		7
90	An Online Framework for Learning Novel Concepts over Multiple Cues. Lecture Notes in Computer Science, 2010, , 269-280.	1.3	8

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91	The Robot Vision Task. The Kluwer International Series on Information Retrieval, 2010, , 185-198.	1.0	5
92	Overview of the CLEF 2009 Robot Vision Track. Lecture Notes in Computer Science, 2010, , 110-119.	1.3	12
93	Overview of the ImageCLEF@ICPR 2010 Robot Vision Track. Lecture Notes in Computer Science, 2010, , 171-179.	1.3	5
94	COLD: The CoSy Localization Database. International Journal of Robotics Research, 2009, 28, 588-594.	8.5	109
95	You live, you learn, you forget: Continuous learning of visual places with a forgetting mechanism. , 2009, , .		4
96	Model adaptation with least-squares SVM for adaptive hand prosthetics. , 2009, , .		54
97	A theoretical framework for transfer of knowledge across modalities in artificial and biological systems. , 2009, , .		3
98	An SVM Confidence-Based Approach to Medical Image Annotation. Lecture Notes in Computer Science, 2009, , 696-703.	1.3	8
99	The more you know, the less you learn: from knowledge transfer to one-shot learning of object categories. , 2009, , .		49
100	Towards a Theoretical Framework for Learning Multi-modal Patterns for Embodied Agents. Lecture Notes in Computer Science, 2009, , 239-248.	1.3	3
101	Discriminative cue integration for medical image annotation. Pattern Recognition Letters, 2008, 29, 1996-2002.	4.2	68
102	Towards robust place recognition for robot localization. , 2008, , .		63
103	The projectron. , 2008, , .		71
104	SVM-based discriminative accumulation scheme for place recognition. , 2008, , .		37
105	The DIRAC AWEAR audio-visual platform for detection of unexpected and incongruent events. , 2008, , .		2
106	Object Category Detection Using Audio-Visual Cues. , 2008, , 539-548.		2
107	Cue Integration for Medical Image Annotation. Lecture Notes in Computer Science, 2008, , 577-584.	1.3	1
108	Confidence-based cue integration for visual place recognition. , 2007, , .		42

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109	Incremental learning for place recognition in dynamic environments. , 2007, , .		67
110	Local velocity-adapted motion events for spatio-temporal recognition. Computer Vision and Image Understanding, 2007, 108, 207-229.	4.7	118
111	A spin glass model of a Markov random field. International Journal of Imaging Systems and Technology, 2006, 16, 181-188.	4.1	2
112	A Discriminative Approach to Robust Visual Place Recognition. , 2006, , .		67
113	Integrating representative and discriminant models for object category detection. , 2005, , .		86
114	Class-specific material categorisation. , 2005, , .		186
115	On the Significance of Real-World Conditions for Material Classification. Lecture Notes in Computer Science, 2004, , 253-266.	1.3	182
116	Recognizing human actions: a local SVM approach. , 2004, , .		2,346
117	<title>Digital mammography: a weak continuity texture representation for detection of microcalcifications</title>. , 2001, , .		0