Mireille Boutin

List of Publications by Year
in descending order

57 papers	538 citations	1039880 9 h-index	713332 21 g-index
57 all docs	57 docs citations	57 times ranked	465 citing authors

#	Article	IF	Citations
1	Analyzing Students' Computational Thinking Practices in a First-Year Engineering Course. IEEE Access, 2021, 9, 33041-33050.	2.6	11
2	A Drone Can Hear the Shape of a Room. SIAM Journal on Applied Algebra and Geometry, 2020, 4, 123-140.	0.9	3
3	Investigating Students' Habits of Mind in a Course on Digital Signal Processing. IEEE Transactions on Education, 2019, 62, 312-324.	2.0	7
4	The Role of Simulation-Enabled Design Learning Experiences on Middle School Students' Self-generated Inherence Heuristics. Journal of Science Education and Technology, 2019, 28, 382-398.	2.4	9
5	Using Computational Methods to Analyze Educational Data. , 2019, , .		1
6	Characterizing Engineering Learners' Preferences for Active and Passive Learning Methods. IEEE Transactions on Education, 2018, 61, 46-54.	2.0	34
7	Clusterability and Clustering of Images and Other "Real" High-Dimensional Data. IEEE Transactions on Image Processing, 2018, 27, 1927-1938.	6.0	18
8	Add-on Preferential Groups (APG): Analyzing student preferences of teaching methods. Computer Applications in Engineering Education, 2018, 26, 1020-1032.	2.2	2
9	A Principled Approach to Using Machine Learning in Qualitative Education Research. , 2018, , .		2
10	A 3-Step Process to Estimate Phenylalanine in Commercial Foods for PKU Management. IEEE Access, 2018, 6, 30758-30765.	2.6	0
11	Using pattern recognition techniques to analyze educational data. , 2017, , .		3
12	Automatic gang graffiti recognition and interpretation. Journal of Electronic Imaging, 2017, 26, 1.	0.5	5
13	Engaging graduate students through online lecture creation. , 2015, , .		7
14	The hidden structure of image datasets. , 2015, , .		4
15	Quantized Distributed Reception for MIMO Wireless Systems Using Spatial Multiplexing. IEEE Transactions on Signal Processing, 2015, 63, 3537-3548.	3.2	63
16	New multipliers for estimating the phenylalanine content of foods from the protein content. Journal of Food Composition and Analysis, 2015, 42, 117-119.	1.9	2
17	Deriving Nutrition Information Using Mathematical Estimation: The Example of Phenylalanine in Sweets with Gelatin. Journal of the Academy of Nutrition and Dietetics, 2015, 115, 1384-1386.	0.4	2
18	Estimating the Nutrient Content of Commercial Foods from their Label Using Numerical Optimization. Lecture Notes in Computer Science, 2015, , 309-316.	1.0	2

#	ARTICLE	IF	CITATIONS
19	An approximate inverse recipe method with application to automatic food analysis. , 2014, , .		3
20	Hazardous material sign detection and recognition. , 2013, , .		4
21	The Pascal Triangle of a Discrete Image: Definition, Properties and Application to Shape Analysis. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2013, , .	0.5	4
22	Detection of symmetric shapes on a mobile device with applications to automatic sign interpretation. , 2012, , .		3
23	Location-aware gang graffiti acquisition and browsing on a mobile device. , 2012, , .		5
24	A method for translating printed documents using a hand-held device. , 2011, , .		2
25	Pose-Free Structure From Motion Using Depth From Motion Constraints. IEEE Transactions on Image Processing, 2011, 20, 2937-2953.	6.0	5
26	A Low Complexity Sign Detection and Text Localization Method for Mobile Applications. IEEE Transactions on Multimedia, 2011, 13, 922-934.	5.2	33
27	Arabic word recognizer for mobile applications. Proceedings of SPIE, 2011, , .	0.8	0
28	A hand-held multimedia translation and interpretation system for diet management. , 2011, , .		0
29	A method for recognizing the shape of a Gaussian mixture from a sparse sample set. Proceedings of SPIE, 2010, , .	0.8	0
30	A joint color trapping strategy for raster images. Proceedings of SPIE, 2010, , .	0.8	0
31	An empirical method for comparing the shape of two Gaussian mixtures. , 2010, , .		0
32	A low complexity method for detection of text area in natural images. , 2010, , .		0
33	Enhancing engineering student communication via a publically available wiki. , 2010, , .		1
34	Automatic eye enhancement by sclera whitening. Proceedings of SPIE, 2010, , .	0.8	0
35	Hardware-Friendly Descreening. IEEE Transactions on Image Processing, 2010, 19, 746-757.	6.0	27
36	A framework for modeling 3D scenes using pose-free equations. ACM Transactions on Graphics, 2009, 29, 1-15.	4.9	4

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37	An algorithm for automatic skin smoothing in digital portraits. , 2009, , .		19
38	The Rosetta phone: a hand-held device for automatic translation of signs in natural images. Proceedings of SPIE, 2008, , .	0.8	2
39	Automatic text area segmentation in natural images. , 2008, , .		4
40	Hardware-friendly descreening. , 2008, , .		5
41	An efficient low-complexity approach to color trapping. Proceedings of SPIE, 2008, , .	0.8	0
42	WHICH POINT CONFIGURATIONS ARE DETERMINED BY THE DISTRIBUTION OF THEIR PAIRWISE DISTANCES?. International Journal of Computational Geometry and Applications, 2007, 17, 31-43.	0.3	15
43	Simplifying the Reconstruction of 3D Models using Parameter Elimination. , 2007, , .		3
44	Faithful Shape Representation for 2D Gaussian Mixtures. , 2007, , .		6
45	3D scene modeling using pose-free reconstruction. , 2007, , .		1
46	Robust Bundle Adjustment for Structure from Motion. , 2006, , .		20
47	Angle Independent Bundle Adjustment Refinement. , 2006, , .		4
48	<title>Improving the numerical stability of structure from motion by algebraic elimination</title>. , 2006, , .		2
49	Lossless Shape Representation using Invariant Statistics: the Case of Point-sets. , 2006, , .		2
50	On Reconstructing Configurations of Points in ?2 from a Joint Distribution of Invariants. Applicable Algebra in Engineering, Communications and Computing, 2005, 15, 361-391.	0.3	3
51	Fingerprint Matching Using the Distribution of the Pairwise Distances Between Minutiae. Lecture Notes in Computer Science, 2005, , 693-701.	1.0	4
52	On reconstructing n-point configurations from the distribution of distances or areas. Advances in Applied Mathematics, 2004, 32, 709-735.	0.4	64
53	Structure from Motion: A New Look from the Point of View of Invariant Theory. SIAM Journal on Applied Mathematics, 2004, 64, 1156-1174.	0.8	22
54	Polygon Recognition and Symmetry Detection. Foundations of Computational Mathematics, 2003, 3, 227-271.	1.5	9

#	Article	IF	Citations
55	Numerically Invariant Signature Curves. International Journal of Computer Vision, 2000, 40, 235-248.	10.9	84
56	Characterizing MOOC Learners from Survey Data Using Modeling and n-TARP Clustering. , 0, , .		2
57	Board # 11 : Investigating Engineering Students Habits of Mind: A Case Study Approach. , 0, , .		1