

Kuntal Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

490
citations

1040056

9
h-index

940533

16
g-index

58
all docs

58
docs citations

58
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic detection and classification of diabetic retinopathy stages using CNN. , 2017, , .		86
2	ELM-based adaptive neuro swarm intelligence techniques for predicting the California bearing ratio of soils in soaked conditions. Applied Soft Computing Journal, 2021, 110, 107595.	7.2	59
3	A possible explanation of the low-level brightnessâ€contrast illusions in the light of an extended classical receptive field model of retinal ganglion cells. Biological Cybernetics, 2006, 94, 89-96.	1.3	36
4	Can #Twitter_Trends Predict Election Results? Evidence from 2014 Indian General Election. , 2015, , .		25
5	Understanding image structure from a new multi-scale representation of higher order derivative filters. Image and Vision Computing, 2007, 25, 1228-1238.	4.5	23
6	A possible mechanism of stochastic resonance in the light of an extra-classical receptive field model of retinal ganglion cells. Biological Cybernetics, 2009, 100, 351-359.	1.3	21
7	A perception based color image adaptive watermarking scheme in YCbCr space. , 2015, , .		17
8	An HVS Inspired Robust Non-blind Watermarking Scheme in YCbCr Color Space. International Journal of Image and Graphics, 2018, 18, 1850015.	1.5	17
9	Tweeting in Support of LGBT?. , 2019, , .		17
10	Towards effective discovery of natural communities in complex networks and implications in e-commerce. Electronic Commerce Research, 2020, , 1.	5.0	15
11	Some Insights Into Brightness Perception of Images in the Light of a New Computational Model of Figureâ€Ground Segregation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 758-766.	2.9	13
12	Proposing new methods in low-level vision from the Mach band illusion in retrospect. Pattern Recognition, 2006, 39, 726-730.	8.1	9
13	Neuro-visually inspired figure-ground segregation. , 2011, , .		9
14	Computational neuroscience and neuroinformatics: Recent progress and resources. Journal of Biosciences, 2018, 43, 1037-1054.	1.1	8
15	Finding patterns in the degree distribution of real-world complex networks: going beyond power law. Pattern Analysis and Applications, 2020, 23, 913-932.	4.6	8
16	Retinomorphic image processing. Progress in Brain Research, 2007, 168, 175-191.	1.4	7
17	Enhancing face matching in a suitable binary environment. , 2011, , .		7
18	A Neural Model of Attention and Feedback for Computing Perceived Brightness in Vision. , 2017, , 487-513.		7

#	ARTICLE	IF	CITATIONS
19	A Possible Role and Basis of Visual Pathway Selection in Brightness Induction. Seeing and Perceiving, 2012, 25, 179-212.	0.3	6
20	Applications of Deep Learning in Medical Imaging. Smart Innovation, Systems and Technologies, 2019, , 111-127.	0.6	6
21	Design of a low-pass filter by multi-scale even order Gaussian derivatives. Signal Processing, 2006, 86, 3923-3933.	3.7	5
22	A Bio-inspired Interpolation Kernel for Medical Image Processing Implemented on DSP Processor. , 2007, , .		5
23	A DOG filter model of the occurrence of Mach bands on spatial contrast discontinuities. Biological Cybernetics, 2016, 110, 229-236.	1.3	5
24	Limitations of the Oriented Difference of Gaussian Filter in Special Cases of Brightness Perception Illusions. Perception, 2016, 45, 328-336.	1.2	5
25	A similarity based generalized modularity measure towards effective community discovery in complex networks. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121338.	2.6	5
26	Deep neural networks for automatic grain-matrix segmentation in plane and cross-polarized sandstone photomicrographs. Applied Intelligence, 2022, 52, 2332-2345.	5.3	5
27	Some Insights into Why the Perception of Mach Bands is Strong for Luminance Ramps and Weak or Vanishing for Luminance Steps. Perception, 2012, 41, 1403-1408.	1.2	4
28	Analysing the patterns of spatial contrast discontinuities in natural images for robust edge detection. Pattern Analysis and Applications, 2021, 24, 1403-1425.	4.6	4
29	An ensemble machine learning model based on multiple filtering and supervised attribute clustering algorithm for classifying cancer samples. PeerJ Computer Science, 2021, 7, e671.	4.5	4
30	Early Vision and Image Processing: Evidences Favouring a Dynamic Receptive Field Model. Lecture Notes in Computer Science, 2006, , 216-227.	1.3	4
31	Estimation of facial expression intensity from a sequence of binary face images. , 2011, , .		3
32	A neural network based model of M and P LGN cells. , 2016, , .		3
33	A New Assistive Technology in Android Platform to Aid Vocabulary Knowledge Acquirement in Indian Sign Language for Better Reading Comprehension in L2 and Mathematical Ability. , 2019, , .		3
34	State-of-the-art fuzzy active contour models for image segmentation. Soft Computing, 2020, 24, 14411-14427.	3.6	3
35	Modified Lomax model: a heavy-tailed distribution for fitting large-scale real-world complex networks. Social Network Analysis and Mining, 2021, 11, 1.	2.8	3
36	A New Silicon Retina Model and Its Advantages. , 2005, 2005, 3632-5.		2

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37	An app based unified approach to enhance language comprehension and mathematical reasoning ability of the hearing impaired using contrast words. , 2019, , .		2
38	A microscopic study on scattering in tissue section of Alternanthera philoxeroides under polarized light. Journal of Biosciences, 2021, 46, 1.	1.1	2
39	A Generalized Design of the Mexican Hat and other Even-order Hermitian Wavelets in a Gaussian Scale Space. , 2008, , .		1
40	An Alternative Gaussian Window Approach for FIR Filter Design. , 2008, , .		1
41	Communication Converging towards Adaptive Intelligence: A Survey. , 2016, , .		1
42	A parsimonious model of brightness induction. Biological Cybernetics, 2018, 112, 237-251.	1.3	1
43	Impact of Convolutional Neural Network Input Parameters on Classification Performance. , 2018, , .		1
44	Automatic grain segmentation in cross-polarized photomicrographs of sedimentary rocks using psychophysics inspired models. Innovations in Systems and Software Engineering, 2021, 17, 167-183.	2.1	1
45	Addressing Grain-Matrix Differentiation in Sedimentary Rock Photomicrographs in the Light of Brightness Perception Modelling. Advances in Intelligent Systems and Computing, 2020, , 223-235.	0.6	1
46	A discrete magnocellular-parvo additive model in early vision for explaining brightness perception in varying contrastive contexts. Biological Cybernetics, 2022, 116, 5-21.	1.3	1
47	Lateral inhibition based holistic approach to adaptive image enhancement. , 2013, , .		0
48	Comparison Between an HVS Inspired Linear Filter and the Bilateral Filter in Performing "Vision at a Glance" through Smoothing with Edge Preservation. International Journal of Image and Graphics, 2015, 15, 1550015.	1.5	0
49	A Study on Crossmodal Correspondence in Sensory Pathways Through Forced Choice Task and Frequency Based Correlation in Sound-Symbolism. Lecture Notes in Computer Science, 2017, , 212-220.	1.3	0
50	Change detection of exposed sandbars around Kaziranga national park. , 2017, , .		0
51	Perceptual Filling-in of Blind-Spot for Surrounding Color Gradient Stimuli. Lecture Notes in Computer Science, 2018, , 194-204.	1.3	0
52	Tiny Squares at the Hermann Grid Corners Can Completely Remove the Illusion. Perception, 2020, 49, 232-239.	1.2	0
53	Attention in Early Vision: Some Psychophysical Insights. Lecture Notes in Computer Science, 2007, , 381-398.	1.3	0
54	Scaling Properties of Mach Bands and Perceptual Models. Lecture Notes in Computer Science, 2012, , 66-74.	1.3	0