

Sandip Sarkar

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

147
citations

1307594

7
h-index

1199594

12
g-index

18
all docs

18
docs citations

18
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	A possible explanation of the low-level brightnessâ€contrast illusions in the light of an extended classical receptive field model of retinal ganglion cells. <i>Biological Cybernetics</i> , 2006, 94, 89-96.	1.3	36
2	Understanding image structure from a new multi-scale representation of higher order derivative filters. <i>Image and Vision Computing</i> , 2007, 25, 1228-1238.	4.5	23
3	A possible mechanism of stochastic resonance in the light of an extra-classical receptive field model of retinal ganglion cells. <i>Biological Cybernetics</i> , 2009, 100, 351-359.	1.3	21
4	Proposing new methods in low-level vision from the Mach band illusion in retrospect. <i>Pattern Recognition</i> , 2006, 39, 726-730.	8.1	9
5	Predictive Coding: A Possible Explanation of Filling-In at the Blind Spot. <i>PLoS ONE</i> , 2016, 11, e0151194.	2.5	8
6	Retinomorph image processing. <i>Progress in Brain Research</i> , 2007, 168, 175-191.	1.4	7
7	Design of a low-pass filter by multi-scale even order Gaussian derivatives. <i>Signal Processing</i> , 2006, 86, 3923-3933.	3.7	5
8	A Bio-inspired Interpolation Kernel for Medical Image Processing Implemented on DSP Processor. , 2007, , .		5
9	A Weighted Sum of Multi-scale Gaussians Generates New Near-ideal Interpolation Functions. , 2005, 2005, 6387-90.		4
10	Stochastic resonance in visual sensitivity. <i>Biological Cybernetics</i> , 2015, 109, 241-254.	1.3	4
11	Early Vision and Image Processing: Evidences Favouring a Dynamic Receptive Field Model. <i>Lecture Notes in Computer Science</i> , 2006, , 216-227.	1.3	4
12	Systemic study of a natural feedback loop in Huntingtonâ€™s disease at the onset of neurodegeneration. <i>BioSystems</i> , 2016, 150, 46-51.	2.0	3
13	Significance of Natural Scene Statistics in Understanding the Anisotropies of Perceptual Filling-in at the Blind Spot. <i>Scientific Reports</i> , 2017, 7, 3586.	3.3	3
14	A Generalized Design of the Mexican Hat and other Even-order Hermitian Wavelets in a Gaussian Scale Space. , 2008, , .		1
15	An Alternative Gaussian Window Approach for FIR Filter Design. , 2008, , .		1
16	Orientation enhancement in early visual processing can explain time course of brightness contrast and Whiteâ€™s illusion. <i>Biological Cybernetics</i> , 2013, 107, 337-354.	1.3	1
17	Acquiring photoacoustic signature of hematocrit variation from plexus layer of in-silico human skin phantom. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 035007.	1.2	1