Bahadir K Gunturk

List of Publications by Year
in descending order

60 papers	3,011 citations	471509 17 h-index	377865 34 g-index
60 all docs	60 docs citations	60 times ranked	2338 citing authors

#	Article	IF	Citations
1	HM-Net: A Regression Network for Object Center Detection and Tracking on Wide Area Motion Imagery. IEEE Access, 2022, 10, 1346-1359.	4.2	6
2	Improved YOLOv4 for Aerial Object Detection. , 2021, , .		21
3	Analysis of deep learning based path loss prediction from satellite images. , 2021, , .		3
4	Predicting Path Loss Distribution of an Area From Satellite Images Using Deep Learning. IEEE Access, 2020, 8, 64982-64991.	4.2	46
5	Path Loss Exponent and Shadowing Factor Prediction From Satellite Images Using Deep Learning. IEEE Access, 2019, 7, 101366-101375.	4.2	38
6	Space-variant blur kernel estimation and image deblurring through kernel clustering. Signal Processing: Image Communication, 2019, 76, 41-55.	3.2	5
7	Spatial and Angular Resolution Enhancement of Light Fields Using Convolutional Neural Networks. IEEE Transactions on Image Processing, 2018, 27, 2146-2159.	9.8	73
8	Hybrid light field imaging for improved spatial resolution and depth range. Machine Vision and Applications, 2018, 29, 11-22.	2.7	14
9	Extracting sub-exposure images from a single capture through Fourier-based optical modulation. Signal Processing: Image Communication, 2018, 60, 107-115.	3.2	8
10	Deconvolution Based Light Field Extraction from a Single Image Capture. , 2018, , .		1
11	Light field super resolution through controlled micro-shifts of light field sensor. Signal Processing: Image Communication, 2018, 67, 71-78.	3.2	7
12	Hybrid-sensor high-resolution light field imaging. , 2017, , .		1
13	High dynamic range imaging using a plenoptic camera. , 2017, , .		4
14	Light field registration: A multi-view geometry approach. , 2016, , .		1
15	Hybrid stereo imaging including a light field and a regular camera. , 2016, , .		6
16	Blind super-resolution restoration with frame-by-frame nonparametric blur estimation. Multidimensional Systems and Signal Processing, 2016, 27, 255-273.	2.6	7
17	Extending depth of field and dynamic range from differently focused and exposed images. Multidimensional Systems and Signal Processing, 2016, 27, 493-509.	2.6	2
18	Super-resolution restoration of motion blurred images. Proceedings of SPIE, 2014, , .	0.8	1

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19	Frequency division multiplexed imaging: a Texas Instruments DMD implementation. , 2014, , .		0
20	Measuring food intake with digital photography. Journal of Human Nutrition and Dietetics, 2014, 27, 72-81.	2.5	190
21	Space-varying blur kernel estimation and image deblurring. , 2014, , .		1
22	Improving the performance of interest point detectors with contrast stretching functions. Proceedings of SPIE, 2013, , .	0.8	0
23	Frequency division multiplexed imaging. Proceedings of SPIE, 2013, , .	0.8	5
24	Joint focus stacking and high dynamic range imaging. , 2013, , .		3
25	Food image analysis for measuring food intake in free living conditions. Proceedings of SPIE, 2013, , .	0.8	2
26	Glottis segmentation using dynamic programming. Proceedings of SPIE, 2013, , .	0.8	2
27	Camera phasing in multi-aperture coherent imaging. Optics Express, 2012, 20, 11796.	3.4	11
28	Multi-transmitter aperture synthesis with Zernike based aberration correction. Optics Express, 2012, 20, 26448.	3.4	5
29	Validity of the Remote Food Photography Method (RFPM) for Estimating Energy and Nutrient Intake in Near Real–Time. Obesity, 2012, 20, 891-899.	3.0	215
30	A New Biomechanical Model of Vocal Fold Vibrations: Preliminary Experimental Validation. , 2011, , .		1
31	High dynamic range imaging of non-static scenes. Proceedings of SPIE, 2011, , .	0.8	11
32	Fast Bilateral Filter With Arbitrary Range and Domain Kernels. IEEE Transactions on Image Processing, 2011, 20, 2690-2696.	9.8	51
33	Fast bilateral filter with arbitrary range and domain kernels. , 2010, , .		1
34	Joint photometric registration and optical flowestimation. , 2010, , .		0
35	Illumination robust interest point detection. Computer Vision and Image Understanding, 2009, 113, 565-571.	4.7	35
36	Quantification of food intake using food image analysis. , 2009, 2009, 6869-72.		54

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37	Compression artifact reduction with adaptive bilateral filtering. Proceedings of SPIE, 2009, , .	0.8	27
38	Multiresolution Bilateral Filtering for Image Denoising. IEEE Transactions on Image Processing, 2008, 17, 2324-2333.	9.8	392
39	A new image denoising method based on the bilateral filter. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	18
40	Restoration of Bayer-sampled Image Sequences. Computer Journal, 2008, 52, 1-14.	2.4	3
41	A new image denoising framework based on bilateral filter. , 2008, 6822, 68221B.		13
42	Image demosaicing: a systematic survey. Proceedings of SPIE, 2008, , .	0.8	232
43	Reliable interest point detection under large illumination variations. , 2008, , .		4
44	POCS-Based Restoration of Bayer-Sampled Image Sequences. , 2007, , .		9
45	Superresolution under Photometric Diversity of Images. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	16
46	On Geometric and Photometric Registration of Images. , 2007, , .		14
47	Super Resolution Approaches for Photometrically Diverse Image Sequences. , 2007, , .		0
48	High-resolution image reconstruction from multiple differently exposed images. IEEE Signal Processing Letters, 2006, 13, 197-200.	3.6	33
49	Reconfigurable Implementation of Wavelet Integer Lifting Transforms for Image Compression. , 2006, , .		10
50	Image Retrieval using Canonical Cyclic String Representation of Polygons. , 2006, , .		1
51	Image acquisition modeling for super-resolution reconstruction. , 2005, , .		4
52	Demosaicking: color filter array interpolation. IEEE Signal Processing Magazine, 2005, 22, 44-54.	5.6	489
53	Super-Resolution Reconstruction of Compressed Video Using Transform-Domain Statistics. IEEE Transactions on Image Processing, 2004, 13, 33-43.	9.8	74
54	Eigenface-domain super-resolution for face recognition. IEEE Transactions on Image Processing, 2003, 12, 597-606.	9.8	249

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55	Multiframe blocking-artifact reduction for transform-coded video. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 276-282.	8.3	14
56	Color plane interpolation using alternating projections. IEEE Transactions on Image Processing, 2002, 11, 997-1013.	9.8	532
57	Multiframe resolution-enhancement methods for compressed video. IEEE Signal Processing Letters, 2002, 9, 170-174.	3.6	40
58	Feature-Based Image Registration in Log-Polar Domain. , 0, , .		4
59	Handling Exposure Time in Multi-Frame Image Restoration. , 0, , .		2
60	HMRN: heat map regression network to detect and track small objects in wide-area motion imagery. Signal, Image and Video Processing, 0, , 1.	2.7	0