Takayuki Hamamoto

List of Publications by Year
in descending order

128	381	1163117	1058476
128 papers	381 citations	8 h-index	14 g-index

128 all docs	128 docs citations	128 times ranked	300 citing authors

#	Article	IF	Citations
1	Enhancing Color Images of Extremely Low Light Scenes Based on RGB/NIR Images Acquisition With Different Exposure Times. IEEE Transactions on Image Processing, 2015, 24, 3586-3597.	9.8	53
2	Underwater Image Color Correction using Exposure-Bracketing Imaging. IEEE Signal Processing Letters, 2018, 25, 893-897.	3.6	22
3	A study on efficient compression of multi-focus images for dense Light-Field reconstruction. , 2012, , .		21
4	A novel scheme for 4-D Light-Field compression based on 3-D representation by multi-focus images. , 2012, , .		15
5	Enhancing low-light color images using an RGB-NIR single sensor. , 2015, , .		12
6	Hierarchical Group-Level Emotion Recognition. IEEE Transactions on Multimedia, 2021, 23, 3892-3906.	7.2	12
7	Adaptive Fusion of RGB/NIR Signals Based on Face/Background Cross-Spectral Analysis for Heart Rate Estimation. , 2019, , .		10
8	Multi-Frame RGB/NIR Imaging for Low-Light Color Image Super-Resolution. IEEE Transactions on Computational Imaging, 2020, 6, 248-262.	4.4	10
9	Non-Contact Heart Rate Estimation via Adaptive RGB/NIR Signal Fusion. IEEE Transactions on Image Processing, 2021, 30, 6528-6543.	9.8	10
10	Enhanced Cascading Classifier Using Multi-Scale HOG for Pedestrian Detection from Aerial Images. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1655009.	1.2	9
11	Three-Dimensional Point Cloud Object Detection Using Scene Appearance Consistency Among Multi-View Projection Directions. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3345-3357.	8.3	9
12	Local and Global Graph Approaches to Image Colorization. IEEE Signal Processing Letters, 2020, 27, 765-769.	3.6	8
13	Low-light color image enhancement via iterative noise reduction using RGB/NIR sensor. Journal of Electronic Imaging, 2017, 26, 1.	0.9	8
14	Capturing color and near-infrared images with different exposure times for image enhancement under extremely low-light scene. , 2014, , .		7
15	Hierarchical Group-level Emotion Recognition in the Wild. , 2019, , .		7
16	Image Segmentation Based Graph-Cut Approach to Fast Color Image Coding via Graph Fourier Transform. , 2019, , .		7
17	Image Quality Improvements Based on Motion-Based Deblurring for Single-Photon Imaging. IEEE Access, 2021, 9, 30080-30094.	4.2	7
18	Improvement of On-line Signature Verification System Robust to Intersession Variability. Lecture Notes in Computer Science, 2002, , 168-175.	1.3	7

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19	Lip Recognition Using Morphological Pattern Spectrum. Lecture Notes in Computer Science, 2001, , 108-114.	1.3	7
20	Scene flow estimation through 3D analysis of multi-focus images. , 2016, , .		6
21	RGB-NIR imaging with exposure bracketing for joint denoising and deblurring of low-light color images. , 2017, , .		6
22	Concept of dual-resolution light field imaging using an organic photoelectric conversion film for high-resolution light field photography. Applied Optics, 2017, 56, 8687.	1.8	6
23	Fast multiple-view denoising based on image reconstruction by plane sweeping. , 2014, , .		5
24	Low-Light Color Image Super-Resolution Using RGB/NIR Sensor. , 2018, , .		5
25	Online background subtraction with freely moving cameras using different motion boundaries. Image and Vision Computing, 2018, 76, 76-92.	4.5	5
26	Multi-View Imaging System Using Paraboloidal Mirror Arrays for Efficient Acquisition of Dynamic Light Fields. , 2019, , .		5
27	Depth Estimation Using Smart Image Sensor with Multiple-Focus Image Function. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2008, 62, 384-391.	0.1	5
28	Reranking-based Crash Report Deduplication. , 2017, , .		5
29	Electoronic hologram generation using high quality color and depth information of natural scene. , 2010, , .		4
30	A study on high-quality free viewpoint image reconstruction systems using multi-focus images by FPGA-based signal processing. , 2010, , .		4
31	Discovering Correspondence Among Image Sets with Projection View Preservation For 3D Object Detection in Point Clouds. , 2018, , .		4
32	The Collaborative Evaluation Method of Coded Picture Quality Using the Internet.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2000, 54, 743-746.	0.1	4
33	Real-Time Depth Estimation with Wide Detectable Range Using Horizontal Planes of Sharp Focus Proceedings. Lecture Notes in Computer Science, 2011, , 669-680.	1.3	4
34	Efficient reconstruction of light fields for consistently augmented reality using dense multi-view systems. , 2019, , .		4
35	Arbitrary view generation for eye-contact communication using projective transformations. , 2009, , .		3
36	Free viewpoint image reconstruction from 3-D multi-focus imaging sequences and its implementation by FPGA-based processing. , 2009, , .		3

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37	Depth estimation based on defocus blur using a single image taken by a tilted lens optics camera. , 2013, , .		3
38	Depth estimation from tilted optics blur by using neural network. , 2018, , .		3
39	æ–°æ©Ÿèƒ½ãƒ»æ–°åŽŸç†ã®æ’®å½±ãƒ‡ãƒã‚¹ã•ã®æ¿ç”¨ (1) ãƒ‡ãƒã‚¹¹. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image, 2005, 59, 362-367.	0.1	3
40	Spatiotemporally Varying Imaging Method for Dynamic Range, Temporal Resolution and SNR Improvement. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2015, 69, J106-J112.	0.1	3
41	Accuracy improvement of depth estimation with tilted optics by optimizing neural network. , 2019, , .		3
42	<title>Motion-adaptive image sensor for enhancement and wide dynamic range</title>. , 1996, , .		2
43	Efficient free viewpoint image acquisition from multiple differently focused images. , 2008, , .		2
44	From a review of HDR sensing and tone compression to a novel imaging approach. , 2011, , .		2
45	Document Recommendation Using Data Compression. Procedia, Social and Behavioral Sciences, 2011, 27, 150-159.	0.5	2
46	Color hologram generation using depth map of real objects with viewing-zone-angle expansion. Proceedings of SPIE, 2012, , .	0.8	2
47	Distance estimation using two different-aperture images obtained by tilted lens optics camera. , 2012, , .		2
48	Sensor-Pattern-Noise Map Reconstruction in Source Camera Identification for Size-Reduced Images. IEICE Transactions on Information and Systems, 2013, E96.D, 1882-1885.	0.7	2
49	Disparity estimation in stereo videos using spatio-temporal disparity hyperplane models. , 2017, , .		2
50	Color correction of underwater images based on multi-illuminant estimation with exposure bracketing imaging. , 2017, , .		2
51	A Study On Light Field Denoising For 3d Consistent Visualization. , 2020, , .		2
52	Multi-Sensor Array Imaging System for Synthesizing Arbitrary Viewpoint Images and Its Depth Estimation Method. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2007, 61, 1633-1641.	0.1	2
53	Objective Evaluation of Components of Colour Distortions due to Image Compression. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 3307-3312.	0.3	2
54	[Paper] An Extended Dynamic Range Imaging by Selective Exposure Time Control for a Macro-Pixel Based CMOS Image Sensor in Machine Vision Application. ITE Transactions on Media Technology and Applications, 2014, 2, 145-153.	0.5	2

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55	Biometrics Verification Using Dynamic and Static Eye Shapes. , 2006, , .		1
56	High Speed Depth Estimation Using Tilted Focal Planes. , 2008, , .		1
57	Current-mode frame subtraction circuit for onsensor object tracking. , 2009, , .		1
58	High-speed-computational image sensor for detection of 2D motion vector by using single pixel matching. , 2010, , .		1
59	Image emphasis based on integration of high frame-rate images by new gradient-based motion estimation method. , 2012, , .		1
60	An 8-segmented 256×512 CMOS image sensor for processing element-coupled unified system in machine vision application. , 2012, , .		1
61	Depth estimation for automotive with tilted optics imaging. , 2014, , .		1
62	Compressive multi-spectral imaging using self-correlations of images based on hierarchical joint sparsity models. Machine Vision and Applications, 2016, 27, 499-510.	2.7	1
63	Detecting flaws in golf swing using common movements of professional players. Machine Vision and Applications, 2016, 27, 13-22.	2.7	1
64	Robust removal of fixed pattern noise on multi-focus images. , 2017, , .		1
65	Depth upsampling by depth prediction. , 2017, , .		1
66	CMOS Image Sensor with Pixel-Parallel ADC and HDR Reconstruction from Intermediate Exposure Images. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2022, E105.A, 82-86.	0.3	1
67	[Paper] Adaptive Exposure-time Control Based on Image Entropy for Multiple-exposure-time Image Sensor. ITE Transactions on Media Technology and Applications, 2021, 9, 128-135.	0.5	1
68	Wide View Surveillance System with Multiple Smart Image Sensors and Mirrors. Lecture Notes in Computer Science, 2004, , 53-60.	1.3	1
69	Image Compression Sensor Using Inter-frame and Intra-frame Correlation. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2006, 60, 390-396.	0.1	1
70	High-Accuracy Motion Estimation by Variable Gradient Method Using High Frame-Rate Images. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1302-1305.	0.3	1
71	A Macro-Pixel Based CMOS Image Sensor for Scene Understanding. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2013, 67, J82-J88.	0.1	1
72	Visual Information Sensing Technology. Design and Implementation of Image Compression Sensor Based on Column Parallel Architecture.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1997, 51, 2141-2148.	0.1	1

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73	Solid State Imaging Techniques. New Design and Implementation of On-sensor-compression circuit Based on Column Parallel Architecture.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1999, 53, 315-318.	0.1	1
74	Improvement of Reconstructed Image Quality based on PSF correction in Wavefront Coding by Using Cubic-Phase-Modulation of Coma Aberration. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2015, 69, J91-J97.	0.1	1
75	HDR Imaging Based on Image Interpolation and Motion Blur Suppression in Multiple-Exposure-Time Image Sensor. IEICE Transactions on Information and Systems, 2020, E103.D, 2067-2071.	0.7	1
76	<title>Focal plane compression sensors</title>. , 1996, 2950, 160.		0
77	Focal plane compression 128x128 image sensor based on column parallel architecture. , 1998, , .		0
78	3D Objects Tracking Using Smart Image Sensor. , 2006, , .		0
79	Synthesis of Arbitrary View Images Using Depth Estimation Based on Iterative Comparison. , 2006, , .		0
80	Object Tracking by Wide View Imaging System Using Eight Smart Sensors. , 2006, , .		0
81	Efficient free viewpoint image reconstruction from multi-focus imaging sequences based on dimension reduction. , 2007, , .		0
82	Adaptive nonlinear imaging characteristic for wide-dynamic-range image sensor using variable integration time. , 2007, , .		0
83	Arbitrary viewpoint image synthesis on multi-layered scene using reconstruction filters. , 2009, , .		0
84	Arbitrary viewpoint image synthesis for real-time processing system using multiple image sensors. , 2009, , .		0
85	Virtual view image synthesis for eye-contact in TV conversation system. , 2010, , .		0
86	Distance and relative speed estimation of binocular camera images based on defocus and disparity information. , 2010, , .		0
87	Improvement of spatial resolution by integration of high-speed sub-frame images. , 2010, , .		0
88	3-1. High Dynamic Range Imaging. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2011, 65, 1369-1372.	0.1	0
89	Effective global prediction for dense light-field compression by using synthesized multi-focus images. , 2012, , .		0
90	An 84-dB extended dynamic range, 152fps, 512 × 384 segmented-base CMOS image sensor with a 10bit, 2.5-MS/s, 6.5-mW pipelined ADC. , 2012, , .		0

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91	Wide range depth estimation from two blurred images with tilted lens optics. , 2014, , .		0
92	Image Electronics Information Sensing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2016, 70, 609-622.	0.1	0
93	Two-layer light field imaging using an organic photoelectric conversion film. , 2016, , .		0
94	Scene Adaptive Exposure Time Control for Imaging and Apparent Motion Sensor. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2021, E104.A, 907-911.	0.3	0
95	Title is missing!. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2000, 54, 297-300.	0.1	0
96	Human Information. Proposal of Objective Measure AWSNR Considering Human Visual Characteristics.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2001, 55, 1443-1449.	0.1	0
97	High Speed Tracking of Moving Objects and Depth Estimation by using Smart Image Sensor and FPGA. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2003, 57, 1142-1148.	0.1	0
98	æƒ…å±ã‚»ãƒ³ã‚·ãƒ³ã‚°. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2004, 58, 1057-1063.	0.1	0
99	A Selective Visual Attention Module Based on Motion Stimuli. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2005, 59, 1862-1868.	0.1	0
100	1-1 Information Sensing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2006, 60, 1160-1168.	0.1	0
101	Wide-Dynamic-Range Image Sensor Using Pixel-Parallel Reset Judgment. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2007, 61, 378-382.	0.1	0
102	Image Sensor to Suppress Influence of Ambient Light in Object Detection. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2007, 61, 1810-1817.	0.1	0
103	Free viewpoint image reconstruction from multiple differently focused images and its implementation by CELL-based computing. , 2008, , .		0
104	Image Electronics; Information Sesing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2008, 62, 1189-1197.	0.1	0
105	Free viewpoint image reconstruction from 3-D multi-focus imaging sequences and its implementation by GPU-based computing. , 2009, , .		0
106	Computational Image Sensors with Motion Detection Function. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2009, 63, 270-273.	0.1	0
107	Depth Estimation Using Variant of Depth of Field by Horizontal Planes of Sharp Focus. Lecture Notes in Computer Science, 2009, , 282-291.	1.3	0
108	1-1. Information Sensing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2010, 64, 1125-1135.	0.1	0

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109	Real-Time Depth Estimation with Wide Detectable Range Using Variance of Depth of Field by Horizontal Planes of Sharp Focus. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2010, 64, 405-412.	0.1	0
110	Image Quality Enhancement for Single-Image Super Resolution Based on Local Similarities and Support Vector Regression. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 552-554.	0.3	0
111	Proposal of New Quad-HD Multi-camera System and High Resolution Image Synthesis Algorithm. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2012, 66, J354-J364.	0.1	0
112	Color Hologram Generation Using High Spatial Resolution Camera. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2013, 67, J108-J115.	0.1	0
113	Image Electronics Information Sensing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2013, 67, 972-982.	0.1	0
114	Enhancing Estimation of Night-Time Leading Vehicles Based on White Line Detection on Traffic Lanes. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2014, 68, J302-J305.	0.1	0
115	Fundamentals of Image Input Device Technologies (The Last Chapter); Introduction of Three Dimensional Image Capturing Devices. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2014, 68, 472-477.	0.1	0
116	Solid State Imaging Techniques. A Novel Image Sensor for On-Sensor-Compression.. Terebijon Gakkaishi (Journal of the Institute of Television Engineers of Japan), 1996, 50, 257-265.	0.0	0
117	Solid State Imaging Techniques. Video Compression Sensor Based on Column Parallel Architecture.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1997, 51, 274-276.	0.1	0
118	Solid State Imaging Techniques. New Design and Implementation of On Sensor Compression Chip Based on Pixel Parallel Architecture.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1997, 51, 270-273.	0.1	0
119	Solid State Imaging Techniques. Motion Adaptive Image Sensor.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1997, 51, 277-279.	0.1	0
120	Visual Information Sensing Technology. Motion Adaptive Image Sensor.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1997, 51, 2149-2157.	0.1	0
121	Solid State Imaging Techniques. Evaluation of The Function of Pixel-Parallel Image Sensor.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1998, 52, 217-219.	0.1	0
122	Solid State Imaging Techniques. A Novel Image Sensor with Spatially Variant Flexible Sampling Control Integrated on a Focal Plane.. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 1999, 53, 261-268.	0.1	0
123	[Foreword] Welcome to the Special Section on Advanced Image Sensor Technology. ITE Transactions on Media Technology and Applications, 2018, 6, 162-162.	0.5	0
124	1-1 Review on 2017 IISW; Outline and Topics (1); Noise, optics and high dynamic range. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2018, 72, 183-189.	0.1	0
125	Depth estimation with tilted optics by multi-aperture using color filter. , 2020, , .		0
126	Operator overloading for cv::UMat converted to equivalent function calls at compile time. , 2020, , .		0

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127	Image Electronics Information Sensing. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2018, 72, 537-550.	0.1	0
128	A Study on 4D Light Field Compression Using Multi-focus Images and Reference Views. , 2021, , .		0