

Jong Beom Ra

List of Publications by Year in descending order

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90
papers

1,131
citations

567281

15
h-index

454955

30
g-index

90
all docs

90
docs citations

90
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	A deblocking filter with two separate modes in block-based video coding. IEEE Transactions on Circuits and Systems for Video Technology, 1999, 9, 156-160.	8.3	143
2	Multi-sensor image registration based on intensity and edge orientation information. Pattern Recognition, 2008, 41, 3356-3365.	8.1	94
3	Contrast-Enhanced Fusion of Multisensor Images Using Subband-Decomposed Multiscale Retinex. IEEE Transactions on Image Processing, 2012, 21, 3479-3490.	9.8	60
4	Automatic registration between 3D intra-operative ultrasound and pre-operative CT images of the liver based on robust edge matching. Physics in Medicine and Biology, 2012, 57, 69-91.	3.0	55
5	A locally adaptive region growing algorithm for vascular segmentation. International Journal of Imaging Systems and Technology, 2003, 13, 208-214.	4.1	54
6	Enhancement of Optical Remote Sensing Images by Subband-Decomposed Multiscale Retinex With Hybrid Intensity Transfer Function. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 983-987.	3.1	53
7	Post-Processing for Blocking Artifact Reduction Based on Inter-Block Correlation. IEEE Transactions on Multimedia, 2014, 16, 1536-1548.	7.2	40
8	A fast search algorithm for vector quantization using L_2 -norm pyramid of codewords. IEEE Transactions on Image Processing, 2002, 11, 10-15.	9.8	37
9	Cardiac motion correction based on partial angle reconstructed images in x-ray CT. Medical Physics, 2015, 42, 2560-2571.	3.0	37
10	Robust CCD and IR Image Registration Using Gradient-Based Statistical Information. IEEE Signal Processing Letters, 2010, 17, 347-350.	3.6	36
11	An efficient motion vector coding scheme based on minimum bitrate prediction. IEEE Transactions on Image Processing, 1999, 8, 1117-1120.	9.8	33
12	Example-Based Super-Resolution via Structure Analysis of Patches. IEEE Signal Processing Letters, 2013, 20, 407-410.	3.6	30
13	A fast multiresolution feature matching algorithm for exhaustive search in large image databases. IEEE Transactions on Circuits and Systems for Video Technology, 2001, 11, 673-678.	8.3	25
14	Automatic Road Extraction From Remote Sensing Images Based on a Normalized Second Derivative Map. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1858-1862.	3.1	20
15	Digital subtraction CT angiography based on efficient 3D registration and refinement. Computerized Medical Imaging and Graphics, 2004, 28, 391-400.	5.8	17
16	A new path planning algorithm for maximizing visibility in computed tomography colonography. IEEE Transactions on Medical Imaging, 2005, 24, 957-968.	8.9	16
17	Improved hierarchical search block matching algorithm by using multiple motion vector candidates. Electronics Letters, 1997, 33, 1771.	1.0	15
18	Automatic Shot Change Detection Algorithm Using Multi-stage Clustering for MPEG-Compressed Videos. Journal of Visual Communication and Image Representation, 2001, 12, 364-385.	2.8	15

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19	Position tracking of moving liver lesion based on real-time registration between 2D ultrasound and 3D preoperative images. <i>Medical Physics</i> , 2015, 42, 335-347.	3.0	15
20	A real-time terrain visualization algorithm using wavelet-based compression. <i>Visual Computer</i> , 2004, 20, 67-85.	3.5	14
21	Cardiac Image Reconstruction via Nonlinear Motion Correction Based on Partial Angle Reconstructed Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1151-1161.	8.9	14
22	Generation of sinc wave by a one-dimensional array for applications in ultrasonic imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996, 43, 285-295.	3.0	13
23	Fast algorithm for optimal bit allocation in a rate-distortion sense. <i>Electronics Letters</i> , 1996, 32, 1871.	1.0	13
24	Resolution Improvement of Infrared Images Using Visible Image Information. <i>IEEE Signal Processing Letters</i> , 2011, 18, 611-614.	3.6	13
25	An Effective Post-Filtering Framework for 3-D PET Image Denoising Based on Noise and Sensitivity Characteristics. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 137-147.	2.0	12
26	Denoising of polychromatic CT images based on their own noise properties. <i>Medical Physics</i> , 2016, 43, 2251-2260.	3.0	12
27	Cardiac Motion Correction for Helical CT Scan With an Ordinary Pitch. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1587-1596.	8.9	12
28	Head motion correction based on filtered backprojection for x-ray CT imaging. <i>Medical Physics</i> , 2018, 45, 589-604.	3.0	12
29	A fast multi-resolution block matching algorithm for motion estimation. <i>Signal Processing: Image Communication</i> , 2000, 15, 799-810.	3.2	11
30	Block motion estimation based on selective integral projections. , 0, , .		10
31	Super-Resolution Reconstruction of 3D PET Images Using Two Respiratory-Phase Low-Dose CT Images. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 46-55.	3.7	10
32	Fast Surface and Volume Rendering Based on Shear-Warp Factorization for a Surgical Simulator. <i>Computer Aided Surgery</i> , 2002, 7, 268-278.	1.8	9
33	Improvement on image transform coding by reducing interblock correlation. <i>IEEE Transactions on Image Processing</i> , 1995, 4, 1146-1150.	9.8	8
34	Efficient block-based coding of noise images by combining pre-filtering and DCT. , 0, , .		6
35	Efficient block-based coding of noisy images by combining pre-filtering and DCT. <i>Electronics Letters</i> , 1999, 35, 1717.	1.0	6
36	Fast triangular mesh approximation of surface data using wavelet coefficients. <i>Visual Computer</i> , 1999, 15, 9-20.	3.5	6

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37	Fast motion estimation for shape coding in MPEG-4. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 358-363.	8.3	6
38	A 36 fps SXGA 3-D Display Processor Embedding a Programmable 3-D Graphics Rendering Engine. IEEE Journal of Solid-State Circuits, 2008, 43, 1247-1259.	5.4	6
39	Gamut-adaptive correction in color image processing. , 2010, , .		6
40	Post processing for blocking artifact reduction. , 2011, , .		6
41	Sinogram Super-Resolution Using a Space-Variant Blur Matrix in PET. IEEE Transactions on Nuclear Science, 2013, 60, 158-165.	2.0	6
42	Texture enhancement for improving single-image super-resolution performance. Signal Processing: Image Communication, 2016, 46, 29-39.	3.2	6
43	Dynamic focal plane estimation for dental panoramic radiography. Medical Physics, 2019, 46, 4907-4917.	3.0	6
44	Development of Positron Emission Tomography With Wobbling and Zooming for High Sensitivity and High-Resolution Molecular Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 2875-2882.	8.9	6
45	Head Motion Correction Based on Filtered Backprojection in Helical CT Scanning. IEEE Transactions on Medical Imaging, 2020, 39, 1636-1645.	8.9	6
46	A rearrangement algorithm of wavelet packet coefficients for zerotree coding. , 0, , .		5
47	Efficient block-based video encoder embedding a Wiener filter for noisy video sequences. Journal of Visual Communication and Image Representation, 2003, 14, 21-38.	2.8	5
48	A rate-constrained fast full-search algorithm based on block sum pyramid. IEEE Transactions on Image Processing, 2005, 14, 308-311.	9.8	5
49	Sub-band decomposed multiscale retinex with space varying gain. , 2008, , .		5
50	Robust registration of 3-D ultrasound and CT images of the liver for image-guided intervention. , 2010, , .		5
51	Infrared image enhancement based on an aligned high resolution visible image. , 2010, , .		5
52	Blind Post-Processing for Ringing and Mosquito Artifact Reduction in Coded Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 721-732.	8.3	5
53	LOR-Based Reconstruction for Super-Resolved 3D PET Image on GPU. IEEE Transactions on Nuclear Science, 2015, 62, 859-868.	2.0	5
54	A block-based volume rendering scheme for the spine biopsy simulator. , 1999, , .		4

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55	A semantic video object tracking algorithm using three-step boundary refinement. , 1999, , .		4
56	An improved video object tracking algorithm based on motion re-estimation. , 0, , .		4
57	Region-Based Super-Resolution Using Multiple Blurred and Noisy Undersampled Images. , 0, , .		4
58	Robust learning-based super-resolution. , 2010, , .		4
59	Real-time respiratory phase matching between 2D fluoroscopic images and 3D <sc>CT</sc> images for precise percutaneous lung biopsy. Medical Physics, 2017, 44, 5824-5834.	3.0	4
60	Force feedback for a spine biopsy simulator with volume graphic model. , 0, , .		3
61	Improvement on learning-based super-resolution by adopting residual information and patch reliability. , 2009, , .		3
62	Metal artifact reduction based on sinogram correction in CT. , 2009, , .		3
63	GPU-based fast projection-backprojection algorithm for 3-D PET image reconstruction. , 2011, , .		3
64	Block Poisson Method and its application to large scale image editing. , 2012, , .		3
65	Efficient marker extraction algorithm for fine image segmentation. Electronics Letters, 1998, 34, 2107.	1.0	2
66	Efficient motion estimation using edge-based binary block-matching and refinement based on motion vector correlation. , 0, , .		2
67	Multi-sensor image fusion using subband decomposed multiscale retinex. , 2009, , .		2
68	Frame rate up conversion via image fusion based on variational approach. , 2010, , .		2
69	Subject-specific brain tumor growth modelling via an efficient Bayesian inference framework. , 2018, 10574, .		2
70	Fast surface and volume rendering based on shear-warp factorization for a surgical simulator. Computer Aided Surgery, 2002, 7, 268-278.	1.8	2
71	Interslice coding for medical three-dimensional images using an adaptive mode selection technique in wavelet transform domain. Journal of Digital Imaging, 1999, 12, 173-184.	2.9	1
72	A fast motion estimation algorithm based on multi-resolution frame structure. , 1999, , .		1

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73	An efficient video down conversion algorithm using modified IDCT basis functions. , 1999, , .		1
74	A fast motion estimation algorithm for MPEG-4 shape coding. , 0, , .		1
75	Efficient error localization and temporal concealment based on motion estimation of enlarged block. Journal of Visual Communication and Image Representation, 2003, 14, 526-542.	2.8	1
76	Fine spatial scalability in wavelet based image coding. , 2005, , .		1
77	Sensorless and real-time registration between 2D ultrasound and preoperative images of the liver. , 2010, , .		1
78	Phased attenuation correction and respiratory motion compensation of pet image by using a ct images and multiple respiratory-phase mr images. , 2011, , .		1
79	Error detection in digital elevation model using a camera image. , 2013, , .		1
80	Post-filtering of PET image based on noise characteristic and spatial sensitivity distribution. , 2013, , .		1
81	A feedback channel based error compensation method for mobile video communications using H.253 standard. , 1999, , .		0
82	Modified IDCT kernel for down-conversion of MPEG-2 compressed video. IEEE Transactions on Consumer Electronics, 1999, 45, 340-344.	3.6	0
83	Fast exhaustive multi-resolution search algorithm based on clustering for efficient image retrieval. Journal of Visual Communication and Image Representation, 2006, 17, 98-106.	2.8	0
84	Non-rigid registration between 3D MR and CT images of the liver based on intensity and edge orientation information. , 2010, , .		0
85	Fast cone-beam-based LOR reconstruction for 3-D PET. , 2012, , .		0
86	Position estimation of moving liver lesion based on registration between 2D ultrasound and 4D MR images. , 2012, , .		0
87	PET image reconstruction based on several respiratory-phase low-dose CT images. , 2012, , .		0
88	Motion compensated 4D PET-CT-MR image generation for respiratory synchronized multi-modal image display. , 2013, , .		0
89	An integrated framework for both compression noise reduction and super-resolution. , 2014, , .		0
90	Gamma curve determination for each individual pixel on high-resolution flat panel display. , 2015, , .		0