

Hiroyuki Kudo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

1,741
citations

20
h-index

40
g-index

163
ext. papers

2,119
ext. citations

3.2
avg, IF

4.61
L-index

#	Paper	IF	Citations
115	Fundamental and Trend of Tomographic Image Reconstruction: from Analytical Reconstruction Method, through Compressed Sensing, to Deep Learning. <i>Materia Japan</i> , 2022 , 61, 7-14	0.1	
114	Single-shot fringe-pattern analysis algorithm robust against abrupt phase jumps. <i>Optics and Lasers in Engineering</i> , 2021 , 139, 106462	4.6	
113	Exploring Frontiers of 4D X-ray Tomography. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8868	2.6	2
112	Nonlocal Total Variation Using the First and Second Order Derivatives and Its Application to CT Image Reconstruction. <i>Sensors</i> , 2020 , 20,	3.8	5
111	Multibeam x-ray optical system for high-speed tomography. <i>Optica</i> , 2020 , 7, 514	8.6	11
110	Segmentation of cervical intervertebral disks in videofluorography by CNN, multi-channelization and feature selection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 901-908	3.9	0
109	Phase shifting method for non-sinusoidal interference fringes with phase shift error. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 112005	1.4	0
108	A fast regularized iterative algorithm for fan-beam CT reconstruction. <i>Physics in Medicine and Biology</i> , 2019 , 64, 145006	3.8	13
107	Observation of Protein Thermodynamics in Ice by Passive Millimeter-Wave Microscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019 , 40, 585-594	2.2	1
106	Redefined Block-Lifting-Based Filter Banks With Efficient Reversible Nonexpansive Convolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1438-1447	6.4	3
105	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019 , 29, 1-11	6.4	4
104	Segmentation of intervertebral disks from videofluorographic images using convolutional neural network 2019 ,		1
103	Image reconstruction in sparse-view CT using improved nonlocal total variation regularization 2019 ,		1
102	Metal artifact reduction in CT using fault-tolerant image reconstruction 2019 ,		2
101	Discrimination of Cervical Spine Disorders Based on Cervical Lordosises in Videofluorography During Swallowing. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2019 , 21, 12-17	0.1	
100	Placticals and Trends of Electron Tomography for Materials Research. <i>Materia Japan</i> , 2018 , 57, 589-594	0.1	
99	Template-Matching-Based Tracking of Cervical Spines in Videofluorography During Swallowing. <i>Smart Innovation, Systems and Technologies</i> , 2018 , 185-191	0.5	1

98	FBP embedded iterative method to efficiently solve the low-dose CT 2017 ,			1
97	Phase unwrapping with differential phase image 2017 ,			1
96	Millisecond-order X-ray phase tomography with compressed sensing. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 112503	1.4		17
95	Interactive Segmentation of Pancreases in Abdominal Computed Tomography Images and Its Evaluation Based on Segmentation Accuracy and Interaction Costs. <i>BioMed Research International</i> , 2017 , 2017, 5094592	3		3
94	In-situ straining and time-resolved electron tomography data acquisition in a transmission electron microscope. <i>Microscopy (Oxford, England)</i> , 2017 , 66, 143-153	1.3		9
93	Applications of compressed sensing image reconstruction to sparse view phase tomography 2017 ,			3
92	Structure-by-structure Recognition of Spinal Columns, Ribs, Intervertebral Disks and Vertebrae from Abdominal X-ray CT Images. <i>Journal of Japan Society of Computer Aided Surgery</i> , 2017 , 19, 131-138	0.1		1
91	Computerized breast cancer analysis system using three stage semi-supervised learning method. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 135, 77-88	6.9		20
90	Probabilistic atlas prior for CT image reconstruction. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 128, 119-36	6.9		3
89	Proposal of fault-tolerant tomographic image reconstruction 2016 ,			1
88	Interactive Segmentation of Pancreases from Abdominal CT Images by Use of the Graph Cut Technique with Probabilistic Atlases. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 575-584	0.5		2
87	Low-dose multiphase abdominal CT reconstruction with phase-induced swap prior 2016 ,			0
86	A very fast iterative algorithm for TV-regularized image reconstruction with applications to low-dose and few-view CT 2016 ,			6
85	An improved phase shift reconstruction algorithm of fringe scanning technique for X-ray microscopy. <i>Review of Scientific Instruments</i> , 2015 , 86, 023707	1.7		1
84	Extended Block-Lifting-Based Lapped Transforms. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 1657-1660	3.2		2
83	Sparsity-constrained three-dimensional image reconstruction for C-arm angiography. <i>Computers in Biology and Medicine</i> , 2015 , 62, 141-53	7		5
82	2D Non-Separable Block-Lifting Structure and Its Application to M-Channel Perfect Reconstruction Filter Banks for Lossy-to-Lossless Image Coding. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 4943-51	8.7		8
81	B11-P-14 ISER, a new, compressed sensing based reconstruction algorithm for reducing image acquisition time. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i84.2-i84	1.3		

80	Three-Dimensional Observation of Lattice Defects Using Electron Tomography. <i>Nihon Kessho Gakkaishi</i> , 2015 , 57, 276-284	0	
79	Restoration of lost frequency in OpenPET imaging: comparison between the method of convex projections and the maximum likelihood expectation maximization method. <i>Radiological Physics and Technology</i> , 2014 , 7, 329-39	1.7	2
78	Introduction to advanced image reconstruction methods and compressed sensing in medical computed tomography. <i>Microscopy (Oxford, England)</i> , 2014 , 63 Suppl 1, i15	1.3	1
77	Implications of Web of Science journal impact factor for scientific output evaluation in 16 institutions and investigators' opinion. <i>Quantitative Imaging in Medicine and Surgery</i> , 2014 , 4, 453-61	3.6	14
76	Integer fast lapped biorthogonal transform via applications of DCT matrices and dyadic-valued factors for lifting coefficient blocks 2013 ,		2
75	Towards high-resolution synchrotron radiation imaging with statistical iterative reconstruction. <i>Journal of Synchrotron Radiation</i> , 2013 , 20, 116-24	2.4	4
74	Note: Near-field imaging of thermal radiation at low temperatures by passive millimeter-wave microscopy. <i>Review of Scientific Instruments</i> , 2013 , 84, 036103	1.7	3
73	Image reconstruction for sparse-view CT and interior CT-introduction to compressed sensing and differentiated backprojection. <i>Quantitative Imaging in Medicine and Surgery</i> , 2013 , 3, 147-61	3.6	35
72	Statistical image reconstruction from limited projection data with intensity priors. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2039-61	3.8	22
71	GPU-Based PET Image Reconstruction Using an Accurate Geometrical System Model. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 1977-1983	1.7	7
70	Row-action image reconstruction algorithm using β -norm distance to a reference image 2011 ,		2
69	High resolution brain imaging with combined parallel-hole and pinhole collimation 2010 ,		1
68	2010 ,		5
67	Optimal relaxation parameters of DRAMA (dynamic RAMLA) aiming at one-pass image reconstruction for 3D-PET. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2917-39	3.8	29
66	Conceptual design of high resolution and quantitative SPECT system for imaging a selected small ROI of human brain 2009 ,		1
65	Enabling photon counting clinical X-ray CT 2009 ,		21
64	Motion compensated fan-beam reconstruction for nonrigid transformation. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 907-17	11.7	17
63	Clinical usability of a compact high resolution detector for high resolution and quantitative SPECT imaging in a selected small ROI 2008 ,		1

62	SOLVING THE INTERIOR PROBLEM OF COMPUTED TOMOGRAPHY USING A PRIORI KNOWLEDGE. <i>Inverse Problems</i> , 2008 , 24, 65001	2.3	83
61	Tiny a priori knowledge solves the interior problem in computed tomography. <i>Physics in Medicine and Biology</i> , 2008 , 53, 2207-31	3.8	156
60	MAP-EM reconstruction using uniform background template for limited-angle PEM 2008 ,		2
59	Region-of-Interest reconstruction from truncated projection data under blind Object Support 2008 ,		1
58	New anatomical-prior-based image reconstruction method for PET/SPECT 2007 ,		9
57	Tiny a priori knowledge solves the interior problem 2007 ,		2
56	Statistical PET image reconstruction using duality of nonlinear programming. <i>Electronics and Communications in Japan</i> , 2007 , 90, 122-131		
55	Practical statistical models for region-of-interest tomographic reconstruction and long object problem 2007 ,		2
54	Truncated Hilbert transform and image reconstruction from limited tomographic data. <i>Inverse Problems</i> , 2006 , 22, 1037-1053	2.3	140
53	Exact cone beam reconstruction for a saddle trajectory. <i>Physics in Medicine and Biology</i> , 2006 , 51, 1157-72	3.8	21
52	View-independent reconstruction algorithms for cone beam CT with general saddle trajectory. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3865-84	3.8	10
51	Closed Sinusoid Trajectory for C-Arm CT Imaging 2006 ,		2
50	Effect of Truncation in Quantitative Cardiac Imaging with Small Field-of-View Pinhole SPECT 2006 ,		1
49	Toward Time Resolved Cardiac CT Images with Patient Dose Reduction: Image-based Motion Estimation 2006 ,		5
48	Millimeter-wave scanning near-field anisotropy microscopy. <i>Review of Scientific Instruments</i> , 2005 , 76, 033702	1.7	6
47	Investigation of saddle trajectories for cardiac CT imaging in cone-beam geometry. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2317-36	3.8	57
46	Exact and approximate algorithms for helical cone-beam CT. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2913-31	3.8	31
45	A new reconstruction strategy for image improvement in pinhole SPECT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004 , 31, 1166-72	8.8	20

44	General reconstruction theory for multislice X-ray computed tomography with a gantry tilt. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 1109-16	11.7	22
43	Improved iterative algorithm for sparse object reconstruction and its performance evaluation with micro-CT data. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 659-666	1.7	18
42	Image improvement in pinhole SPECT using complete data acquisition combined with statistical image reconstruction. <i>International Congress Series</i> , 2004 , 1265, 101-105		
41	Improved two-dimensional rebinning of helical cone-beam computerized tomography data using John's equation. <i>Inverse Problems</i> , 2003 , 19, S41-S54	2.3	15
40	Shape representation using extended hyperquadrics. <i>Electronics and Communications in Japan</i> , 2003 , 86, 42-51		
39	Attenuation map reconstruction using topology constrained labeling. <i>Electronics and Communications in Japan</i> , 2003 , 86, 31-41		
38	Newton-SOR method for fast statistical tomographic image reconstruction. <i>Systems and Computers in Japan</i> , 2003 , 34, 1-11		
37	Subset-dependent relaxation in block-iterative algorithms for image reconstruction in emission tomography. <i>Physics in Medicine and Biology</i> , 2003 , 48, 1405-22	3.8	79
36	Image reconstruction from fan-beam projections on less than a short scan. <i>Physics in Medicine and Biology</i> , 2002 , 47, 2525-46	3.8	147
35	An accurate iterative reconstruction algorithm for sparse objects: application to 3D blood vessel reconstruction from a limited number of projections. <i>Physics in Medicine and Biology</i> , 2002 , 47, 2599-609	3.8	78
34	Rebinning-based algorithms for helical cone-beam CT. <i>Physics in Medicine and Biology</i> , 2001 , 46, 2911-37	3.8	15
33	Improvement in Image Reconstruction of Scanning Near-Field Millimeter-Wave Microscopy Using a Metal Slit-Type Probe. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 4252-4253	1.4	2
32	Cryogenic Mode II Interlaminar Fracture Toughness of Glass-cloth/Epoxy Laminates by End Notched Flexure Testing and Finite Element Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2000 , 64, 423-428	0.4	2
31	A solution to the long-object problem in helical cone-beam tomography. <i>Physics in Medicine and Biology</i> , 2000 , 45, 623-43	3.8	107
30	Quasi-exact filtered backprojection algorithm for long-object problem in helical cone-beam tomography. <i>IEEE Transactions on Medical Imaging</i> , 2000 , 19, 902-21	11.7	37
29	Cryogenic Mode I Interlaminar Fracture Toughness of Glass-cloth/Epoxy Laminates by DCB Testing and the Finite Element Method.. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 2000 , 35, 72-78	0.1	1
28	Damage and Fracture Mechanics Analysis of G-11 Woven Glass-Epoxy Laminates at Cryogenic Temperatures. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999 , 63, 221-229	0.4	6
27	Performance of quasi-exact cone-beam filtered backprojection algorithm for axially truncated helical data. <i>IEEE Transactions on Nuclear Science</i> , 1999 , 46, 608-617	1.7	12

26	Cryogenic Compressive Properties of Woven Glass-epoxy Laminates.. <i>TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan)</i> , 1999 , 34, 15-22	0.1	
25	Three-dimensional monochromatic x-ray computed tomography using synchrotron radiation. <i>Optical Engineering</i> , 1998 , 37, 2258	1.1	6
24	Fast and stable cone-beam filtered backprojection method for non-planar orbits. <i>Physics in Medicine and Biology</i> , 1998 , 43, 747-60	3.8	15
23	Cone-beam filtered-backprojection algorithm for truncated helical data. <i>Physics in Medicine and Biology</i> , 1998 , 43, 2885-909	3.8	102
22	Signal source localization from spatio-temporal biomagnetic data by signal subspace method. <i>Systems and Computers in Japan</i> , 1996 , 27, 12-25		
21	Edge detection using markov random field models optimization and parameter estimation by mean field annealing. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1995 , 78, 21-33		1
20	Three-dimensional monochromatic x-ray CT 1995 , 2564, 548		0
19	Derivation and implementation of a cone-beam reconstruction algorithm for nonplanar orbits. <i>IEEE Transactions on Medical Imaging</i> , 1994 , 13, 196-211	11.7	84
18	Reconstruction of emission tomographic images using the compound gauss-markov random field. <i>Systems and Computers in Japan</i> , 1993 , 24, 78-87		0
17	Estimation of static field inhomogeneity and patient motion in magnetic resonance imaging. <i>Systems and Computers in Japan</i> , 1992 , 23, 38-48		
16	Reconstruction of magnetic resonance images by iterative methods. <i>Systems and Computers in Japan</i> , 1992 , 23, 62-74		
15	Three-dimensional helical-scan computed tomography using cone-beam projections. <i>Systems and Computers in Japan</i> , 1992 , 23, 75-82		9
14	A Unified Approach to Tomographic Image Reconstruction from Incomplete Projections 1992 , 1421-1424		
13	Tomographic image reconstruction from incomplete cone beam projections by the method of convex projections. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1991 , 74, 54-63		2
12	Tomographic image reconstruction from incomplete projection data by the method of convex projections. <i>Systems and Computers in Japan</i> , 1991 , 22, 66-75		
11	Sinogram recovery with the method of convex projections for limited-data reconstruction in computed tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1991 , 8, 1148	1.8	42
10	Three-dimensional tomographic image reconstruction from cone beam projections by single scanning method. <i>Systems and Computers in Japan</i> , 1990 , 21, 86-95		1
9	Feasible cone beam scanning methods for exact reconstruction in three-dimensional tomography. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990 , 7, 2169-83	1.8	40

8	Effects of sera from patients with obstructive jaundice on the generation of oxygen intermediates by normal polymorphonuclear leukocytes. <i>Liver</i> , 1988 , 8, 366-71		8
7	A Tomographic Image Reconstruction from Limited View Angle Projection Data. <i>Systems and Computers in Japan</i> , 1988 , 19, 56-64		1
6	Immunohistochemical Localization of Vitamin B12 R-Binder in Human Skin Tissues. <i>Journal of Clinical Biochemistry and Nutrition</i> , 1988 , 4, 249-254	3.1	
5	High levels of IgA-containing circulating immune complex and secretory IgA in Kawasaki disease. <i>Microbiology and Immunology</i> , 1987 , 31, 891-8	2.7	17
4	Effects of Oral Administration of Vitamin D3 Metabolites on Histological Changes of Intestinal Mucosa. <i>Journal of Clinical Biochemistry and Nutrition</i> , 1987 , 3, 201-207	3.1	
3	Derivation and implementation of ordered-subsets algorithms for list-mode PET data		8
2			12
1	New approximate filtered backprojection algorithm for helical cone-beam CT with redundant data		2