

Satoshi Tomioka

List of Publications by Year in descending order

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papers

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all docs

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docs citations

36
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized compensator phase unwrapping algorithm based on flux conservable solver. Journal of Computational Science, 2022, 62, 101752.	2.9	1
2	Technical Note: Range verification of pulsed proton beams from fixed-field alternating gradient accelerator by means of time-of-flight measurement of ionoacoustic waves. Medical Physics, 2021, 48, 5490-5500.	3.0	3
3	On-line range verification for proton beam therapy using spherical ionoacoustic waves with resonant frequency. Scientific Reports, 2020, 10, 20385.	3.3	6
4	Desingularization of matrix equations employing hypersingular integrals in boundary element methods using double nodes. Engineering Analysis With Boundary Elements, 2019, 106, 493-504.	3.7	0
5	Phase Extraction from Single Interferogram Including Closed-Fringe Using Deep Learning. Applied Sciences (Switzerland), 2019, 9, 3529.	2.5	16
6	Weighted reconstruction of three-dimensional refractive index in interferometric tomography. Applied Optics, 2017, 56, 6755.	1.8	7
7	Three-dimensional gas temperature measurements by computed tomography with incident angle variable interferometer. Proceedings of SPIE, 2015, , .	0.8	3
8	Performance Evaluation of Phase Unwrapping Algorithms for Noisy Phase Measurements. International Journal of Optomechatronics, 2014, 8, 260-274.	6.6	12
9	Carrier peak isolation from single interferogram using spectrum shift technique. Applied Optics, 2014, 53, 5620.	1.8	4
10	Weighted denoising for phase unwrapping. Proceedings of SPIE, 2014, , .	0.8	0
11	Performance Evaluation of Phase Unwrapping Algorithms for Noisy Phase Measurements. , 2014, , 155-160.		0
12	Phase extraction and unwrapping using rotational and direct compensators for digital hologram. Optical Engineering, 2013, 52, 101910.	1.0	3
13	Phase unwrapping for noisy phase map using localized compensator. Applied Optics, 2012, 51, 4984.	1.8	24
14	Nondestructive three-dimensional measurement of gas temperature distribution by phase tomography. , 2012, , .		2
15	Phase unwrapping algorithm based on singularity compensation for three-dimensional shape measurement. Optical Review, 2012, 19, 444-450.	2.0	4
16	Reliable phase unwrapping algorithm based on rotational and direct compensators. Applied Optics, 2011, 50, 6225.	2.1	11
17	Analytical regularization of hypersingular integral for Helmholtz equation in boundary element method. Engineering Analysis With Boundary Elements, 2010, 34, 393-404.	3.7	20
18	Phase unwrapping for noisy phase maps using rotational compensator with virtual singular points. Applied Optics, 2010, 49, 4735.	2.1	21

#	ARTICLE	IF	CITATIONS
19	Analysis of microstructural images of dry and water-saturated compacted bentonite samples observed with X-ray micro CT. Applied Clay Science, 2010, 47, 65-71.	5.2	34
20	Imaging and texture observation of materials by using a pulsed neutron spectroscopic transmission method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 167-169.	1.6	16
21	Epithermal neutron tomography using compact electron linear accelerator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 91-94.	1.6	12
22	Three-Dimensional Wake Field Computations Based on Scattered-Field Time Domain Boundary Element Method. IEEE Transactions on Nuclear Science, 2009, 56, 2341-2350.	2.0	8
23	Time Domain Boundary Element Analysis of Wake Fields in Long Accelerator Structures. IEEE Transactions on Nuclear Science, 2008, 55, 2584-2591.	2.0	8
24	Nonlinear Least Square Regression by Adaptive Domain Method With Multiple Genetic Algorithms. IEEE Transactions on Evolutionary Computation, 2007, 11, 1-16.	10.0	33
25	Numerical reconstruction of an infrared wavefront utilizing an optical phase modulation device. Optics Communications, 2007, 272, 67-72.	2.1	1
26	Scattered-Field Time Domain Boundary Element Method and Its Application to Transient Electromagnetic Field Simulation in Particle Accelerator Physics. IEICE Transactions on Electronics, 2007, E90-C, 265-274.	0.6	8
27	Application of the nitroanisole as an infrared detector used in middle infrared interferometer. Optics Communications, 2006, 260, 25-29.	2.1	16
28	Simulation in applying genetic algorithm for non-destructive measurement of electron beam transverse profile. International Journal of Applied Electromagnetics and Mechanics, 2002, 14, 215-219.	0.6	0
29	Scattered field FD-TD analysis for wake-fields computation. International Journal of Applied Electromagnetics and Mechanics, 2002, 14, 243-247.	0.6	0
30	Analysis for improvement of simultaneity of shuttering in an ultra high-speed framing camera. IEEE Transactions on Magnetics, 2000, 36, 1774-1778.	2.1	3
31	FD-TD analysis of scattered fields excited by a high energy pulsed beam of charged particles using point charge responses. IEEE Transactions on Magnetics, 2000, 36, 888-891.	2.1	1
32	Internal field error reduction in boundary element analysis for Helmholtz equation. Engineering Analysis With Boundary Elements, 1999, 23, 211-222.	3.7	1
33	A Novel Boundary Element Method for Nonuniform Neutron Diffusion Problems. Journal of Nuclear Science and Technology, 1999, 36, 273-281.	1.3	2
34	Power iterative multiple reciprocity boundary element method for solving three-dimensional Helmholtz eigenvalue problems. Engineering Analysis With Boundary Elements, 1997, 20, 113-121.	3.7	7
35	Matrix-type higher order fundamental solutions to three-dimensional two-group neutron diffusion equations. Engineering Analysis With Boundary Elements, 1997, 20, 63-71.	3.7	4
36	Removal of Spurious Solutions in Boundary Element Method Analysis for Fabry-Perot Resonator Containing Another Medium. IEJ Transactions on Fundamentals and Materials, 1993, 113, 572-579.	0.2	1