

Marc Lambert

List of Publications by Year in descending order

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524
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#	ARTICLE	IF	CITATIONS
1	Group Sparsity Penalized Contrast Source Solution Method for 2-D Non-Linear Inverse Scattering. IEEE Open Journal of Antennas and Propagation, 2022, 3, 48-58.	3.7	2
2	Joint Inversion of Electromagnetic and Acoustic Data With Edge-Preserving Regularization for Breast Imaging. IEEE Transactions on Computational Imaging, 2021, 7, 349-360.	4.4	14
3	Structure analysis of direct sampling method in 3D electromagnetic inverse problem: near- and far-field configuration. Inverse Problems, 2021, 37, 075002.	2.0	8
4	A wavelet-based contrast source inversion method. , 2021, , .		1
5	Use of sparsity in nonlinear electromagnetic imaging: wavelet-based contrast source method. , 2021, , .		1
6	Single- and Multi-Frequency Direct Sampling Methods in a Limited-Aperture Inverse Scattering Problem. IEEE Access, 2020, 8, 121637-121649.	4.2	16
7	Microwave Breast Imaging With Prior Ultrasound Information. IEEE Open Journal of Antennas and Propagation, 2020, 1, 472-482.	3.7	20
8	Analysis and Improvement of Direct Sampling Method in the Monostatic Configuration. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1721-1725.	3.1	10
9	Detectability of junctions of underground electrical cables with a ground penetrating radar: Electromagnetic simulation and experimental measurements. Construction and Building Materials, 2018, 158, 1099-1110.	7.2	18
10	Analysis of Kirchhoff Migration and Direct Sampling Method within Far-Field Approximation: From the Multi-Static to the Mono-Static Configuration. , 2018, , .		0
11	Direct sampling method for imaging small dielectric inhomogeneities: analysis and improvement. Inverse Problems, 2018, 34, 095005.	2.0	19
12	Metamodel-based Markov-Chain-Monte-Carlo parameter inversion applied in eddy current flaw characterization. NDT and E International, 2018, 99, 13-22.	3.7	9
13	Metamodel-Based Nested Sampling for Model Selection in Eddy-Current Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	3
14	Sparse reconstruction algorithms for nonlinear microwave imaging. , 2017, , .		3
15	Multi-frequency direct sampling method in inverse scattering problem. Journal of Physics: Conference Series, 2017, 904, 012018.	0.4	4
16	Soft Shrinkage Thresholding Algorithm for Nonlinear Microwave Imaging. Journal of Physics: Conference Series, 2016, 756, 012011.	0.4	1
17	A modified gradient descent reconstruction algorithm for breast cancer detection using Microwave Radar and Digital Breast Tomosynthesis. , 2016, , .		2
18	Sparsity-enforced microwave inverse scattering using soft shrinkage thresholding. , 2016, , .		2

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19	Sparsity reconstruction algorithm for nonlinear microwave problems. , 2016, , .		0
20	A New Integral Equation Method to Solve Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2016, 64, 1788-1799.	5.1	81
21	A new optimization method for solving electromagnetic inverse scattering problems. , 2016, , .		0
22	On inverse scattering and imaging solutions for objects buried within uniaxially anisotropic media. , 2015, , .		4
23	MUSIC imaging method for electromagnetic inspection of composite multi-layers. , 2015, , .		0
24	Fast Calculation of Scattering by 3-D Inhomogeneities in Uniaxial Anisotropic Multilayers. IEEE Transactions on Antennas and Propagation, 2014, 62, 6365-6374.	5.1	12
25	Cognitive kriging metamodels for forest characterization and target detection. , 2014, , .		0
26	Electromagnetic Response of Anisotropic Laminates to Distributed Sources. IEEE Transactions on Antennas and Propagation, 2014, 62, 247-256.	5.1	18
27	Influence of partially known parameter on flaw characterization in Eddy Current Testing by using a random walk MCMC method based on metamodeling. Journal of Physics: Conference Series, 2014, 542, 012009.	0.4	5
28	Modelling eddy current testing of ferromagnetic medium. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 245-250.	0.6	2
29	Solution of Inverse Problems in Nondestructive Testing by a Kriging-Based Surrogate Model. IEEE Transactions on Magnetics, 2012, 48, 495-498.	2.1	26
30	On a new stable modeling of dyadic Green's functions of electrically uniaxial planar-layered media. , 2011, , .		0
31	Reconstruction of faulty wiring networks using reflectometry response and genetic algorithms. International Journal of Applied Electromagnetics and Mechanics, 2011, 35, 39-55.	0.6	9
32	Adaptive Metamodels for Crack Characterization in Eddy-Current Testing. IEEE Transactions on Magnetics, 2011, 47, 746-755.	2.1	41
33	Eddy-Current Modeling of a Continuous Conductivity Profile Resulting From a Diffusion Process. IEEE Transactions on Magnetics, 2011, 47, 2093-2099.	2.1	3
34	Recent progress in wiring networks diagnosis for automotive applications. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1148-1161.	0.9	1
35	Combination of Maximin and Kriging Prediction Methods for Eddy-Current Testing Database Generation. Journal of Physics: Conference Series, 2010, 255, 012003.	0.4	1
36	Multiple-Shape Reconstruction by Means of Multiregion Level Sets. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2330-2342.	6.3	39

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37	Kriging for Eddy-Current Testing Problems. IEEE Transactions on Magnetics, 2010, 46, 3165-3168.	2.1	11
38	Detection of Defects in Wiring Networks Using Time Domain Reflectometry. IEEE Transactions on Magnetics, 2010, 46, 2998-3001.	2.1	65
39	WIDEBAND VALIDATION OF A PHASE RETRIEVAL PROCESS APPLIED TO INFRARED PLANAR NEAR-FIELD MEASUREMENTS. Progress in Electromagnetics Research B, 2010, 23, 39-54.	1.0	7
40	Kriging-based generation of optimal databases as forward and inverse surrogate models. Inverse Problems, 2010, 26, 074012.	2.0	26
41	Particle optimization with metamodel for crack characterization. , 2010, , .		1
42	IMAGING OF DEFECTS IN SEVERAL COMPLEX CONFIGURATIONS BY SIMULATION-HELPED PROCESSING OF ULTRASONIC ARRAY DATA. AIP Conference Proceedings, 2010, , .	0.4	6
43	Inverse problem characterization using an adaptive database. , 2010, , .		0
44	Characterization of a 3D defect using the expected improvement algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 851-864.	0.9	11
45	A multi-resolution technique based on shape optimization for the reconstruction of homogeneous dielectric objects. Inverse Problems, 2009, 25, 015009.	2.0	21
46	Eddy-current testing with the Expected Improvement optimization algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1750-1755.	0.4	0
47	Ultrasonic array reconstruction methods for the localization and the characterization of defects in complex NDT configurations. Springer Proceedings in Physics, 2009, , 377-385.	0.2	0
48	3-D Eddy-Current Imaging of Metal Tubes by Gradient-Based, Controlled Evolution of Level Sets. IEEE Transactions on Magnetics, 2008, 44, 4721-4729.	2.1	9
49	Electromagnetic Modeling of a Damaged Ferromagnetic Metal Tube by a Volume Integral Equation Formulation. IEEE Transactions on Magnetics, 2008, 44, 623-632.	2.1	23
50	MODELLING OF FLAWED RIVETED STRUCTURES FOR EC INSPECTION IN AERONAUTICS. AIP Conference Proceedings, 2008, , .	0.4	3
51	Stochastic Matrices and Lp Norms : New Algorithms for Solving Ill-conditioned Linear Systems of Equations. ESAIM: Proceedings and Surveys, 2007, 18, 70-86.	0.4	0
52	A 3D Model for Eddy Current Inspection in Aeronautics: Application to Riveted Structures. AIP Conference Proceedings, 2007, , .	0.4	2
53	Eddy-Current Modeling of Ferrite-Cored Probes. AIP Conference Proceedings, 2005, , .	0.4	7
54	Shared issues of wavefield inversion and illustrations in 3-D diffusive electromagnetics. Comptes Rendus Physique, 2005, 6, 618-625.	0.9	1

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55	Nonlinear inversions of immersed objects using laboratory-controlled data. <i>Inverse Problems</i> , 2004, 20, S81-S98.	2.0	9
56	Dyad-Based Model of the Electric Field in a Conductive Cylinder at Eddy-Current Frequencies. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 400-409.	2.1	13
57	Extended Born domain integral models of diffusive fields. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 577-580.	2.1	3
58	Eddy-current evaluation of three-dimensional defects in a metal plate. <i>Inverse Problems</i> , 2002, 18, 1857-1871.	2.0	29
59	Shape inversion from TM and TE real data by controlled evolution of level sets. <i>Inverse Problems</i> , 2002, 18, 279-282.	2.0	4
60	On novel developments of controlled evolution of level sets in the field of inverse shape problems. <i>Radio Science</i> , 2002, 37, VIC 11-1-VIC 11-9.	1.6	7
61	Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation. <i>Inverse Problems</i> , 2001, 17, 2017-2022.	2.0	1
62	Shape reconstruction of buried obstacles by controlled evolution of a level set: from a min-max formulation to numerical experimentation. <i>Inverse Problems</i> , 2001, 17, 1087-1111.	2.0	47
63	Shape inversion from TM and TE real data by controlled evolution of level sets. <i>Inverse Problems</i> , 2001, 17, 1585-1595.	2.0	34
64	On the Characterization of Objects in Shallow Water Using Rigorous Inversion Methods. , 2001, , 127-147.		0
65	Binary-constrained inversion of a buried cylindrical obstacle from complete and phaseless magnetic fields. <i>Inverse Problems</i> , 2000, 16, 563-576.	2.0	27
66	Electromagnetic scattering by a triaxial homogeneous penetrable ellipsoid: Low-frequency derivation and testing of the localized nonlinear approximation. <i>Radio Science</i> , 2000, 35, 463-481.	1.6	12
67	Conductive masses in a half-space Earth in the diffusive regime: fast hybrid modeling of a low-contrast ellipsoid. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000, 38, 1585-1599.	6.3	14
68	Nonlinear inversion of a buried object in transverse electric scattering. <i>Radio Science</i> , 1999, 34, 1361-1371.	1.6	16
69	41. ARLETT: A Prototype Three-Component Borehole Electromagnetic System. , 1999, , 625-657.		2
70	The retrieval of a buried cylindrical obstacle by a constrained modified gradient method in the H-polarization case and for Maxwellian materials. <i>Inverse Problems</i> , 1998, 14, 1265-1283.	2.0	30
71	Te Scattering By a Cylindrical Dielectric Obstacle Buried in a Half-Space: a H-Field-Based Solution Method. <i>Journal of Electromagnetic Waves and Applications</i> , 1998, 12, 1217-1239.	1.6	8
72	<title>Multifrequency version of the modified gradient algorithm for reconstruction of complex refractive indices</title>. , 1997, 3171, 76.		2

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73	Born-type schemes for the acoustic probing of 1D fluid media from time-harmonic planar reflection coefficients at two incidences. Journal of the Acoustical Society of America, 1996, 99, 243-253.	1.1	1
74	Introduction to Inverse Scattering in Acoustics and Elasticity. , 0, , 413-430.		0