Marc C Robini

List of Publications by Year in descending order

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58 615 13 24 g-index

58 58 58 58 556

times ranked

citing authors

docs citations

all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Improved Image Reconstruction Using Multi-Energy Information in Spectral Photon-Counting CT. IEEE Access, 2021, 9, 97981-97989. | 4.2 | O |
| 2 | A stochastic approach to full inverse treatment planning for charged-particle therapy. Journal of Global Optimization, 2020, 77, 853-893. | 1.8 | 3 |
| 3 | Material Decomposition in X-ray Spectral CT Using Multiple Constraints in Image Domain. Journal of Nondestructive Evaluation, 2019, 38, 1. | 2.4 | 16 |
| 4 | Inexact Half-Quadratic Optimization for Linear Inverse Problems. SIAM Journal on Imaging Sciences, 2018, 11, 1078-1133. | 2.2 | 6 |
| 5 | A singular K-space model for fast reconstruction of magnetic resonance images from undersampled data. Medical and Biological Engineering and Computing, 2018, 56, 1211-1225. | 2.8 | 2 |
| 6 | Probabilistic Atlas Construction of Human Cardiac Fiber Structure in DT-MRI., 2018, , . | | 0 |
| 7 | Simultaneous Reconstruction and Denoising of Spectral CT Images. , 2018, , . | | O |
| 8 | Nasal Mesh Unfolding – An Approach to Obtaining 2-D Skin Templates from 3-D Nose Models. Lecture Notes in Computer Science, 2018, , 163-170. | 1.3 | 0 |
| 9 | Fast single image super-resolution using estimated low-frequency k-space data in MRI. Magnetic Resonance Imaging, 2017, 40, 1-11. | 1.8 | 10 |
| 10 | Robustness of spatioâ€ŧemporal regularization in perfusion MRI deconvolution: An application to acute ischemic stroke. Magnetic Resonance in Medicine, 2017, 78, 1981-1990. | 3.0 | 8 |
| 11 | Wideband 2-D Array Design Optimization With Fabrication Constraints for 3-D US Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 108-125. | 3.0 | 39 |
| 12 | Validation of optimal 2D sparse arrays in focused mode: Phantom experiments., 2017,,. | | 3 |
| 13 | Image reconstruction by nonconvex inexact half-quadratic optimization., 2017,,. | | 0 |
| 14 | A stochastic framework for spot-scanning particle therapy. , 2016, 2016, 2578-2581. | | 1 |
| 15 | Interest of non-negativity constraint in perfusion DSC-MRI deconvolution for acute stroke. , 2016, , . | | 1 |
| 16 | Inexact half-quadratic optimization for image reconstruction. , 2016, , . | | 2 |
| 17 | Towards a simplified cardiac fiber architecture â€" Multiscale fiber merging. , 2016, , . | | 0 |
| 18 | Global diffusion tractography by simulated annealing. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1. | 4.2 | 1 |

| # | Article | IF | Citations |
|----|--|------|-----------|
| 19 | 2-D Ultrasound Sparse Arrays Multidepth Radiation Optimization Using Simulated Annealing and Spiral-Array Inspired Energy Functions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 2138-2149. | 3.0 | 62 |
| 20 | Comparison of different optimized irregular sparse 2D ultrasound arrays. , 2016, , . | | 2 |
| 21 | Spiral array inspired multi-depth cost function for 2D sparse array optimization. , 2015, , . | | 3 |
| 22 | Mitotic spindle asymmetry in rodents and primates: 2D vs. 3D measurement methodologies. Frontiers in Cellular Neuroscience, 2015, 9, 33. | 3.7 | 6 |
| 23 | Speed-up of acoustic simulation techniques for 2D sparse array optimization by simulated annealing. , $2015, , .$ | | 6 |
| 24 | Generic Half-Quadratic Optimization for Image Reconstruction. SIAM Journal on Imaging Sciences, 2015, 8, 1752-1797. | 2.2 | 12 |
| 25 | Cardiac Fiber Unfolding by Semidefinite Programming. IEEE Transactions on Biomedical Engineering, 2015, 62, 582-592. | 4.2 | 2 |
| 26 | Optimization of free-moving elements in 2D ultrasound sparse arrays. , 2014, , . | | 1 |
| 27 | Realistic acoustic simulation of 2-D probe elements in simulated annealing sparse array optimization. , 2014, , . | | 4 |
| 28 | A Comparative Study of Different Level Interpolations for Improving Spatial Resolution in Diffusion Tensor Imaging. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1317-1327. | 6.3 | 10 |
| 29 | A 3-D spatio-temporal deconvolution approach for MR perfusion in the brain. Medical Image Analysis, 2014, 18, 144-160. | 11.6 | 14 |
| 30 | From simulated annealing to stochastic continuation: a new trend in combinatorial optimization. Journal of Global Optimization, 2013, 56, 185-215. | 1.8 | 25 |
| 31 | Design of Optimal 2-D Nongrid Sparse Arrays for Medical Ultrasound. IEEE Transactions on Biomedical Engineering, 2013, 60, 3093-3102. | 4.2 | 92 |
| 32 | Structure-adaptive sparse denoising for diffusion-tensor MRI. Medical Image Analysis, 2013, 17, 442-457. | 11.6 | 31 |
| 33 | Variable-size elements in 2D sparse arrays for 3D medical ultrasound. , 2013, , . | | 5 |
| 34 | Theoretically Grounded Acceleration Techniques for Simulated Annealing. Intelligent Systems Reference Library, 2013, , 311-335. | 1.2 | 9 |
| 35 | Edge-preserving reconstruction with contour-line smoothing and non-quadratic data-fidelity. Inverse Problems and Imaging, 2013, 7, 1331-1366. | 1.1 | 7 |
| 36 | DT-MRI interpolation: At what level?., 2012,,. | | 1 |

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| 37 | A neighborhood-based probabilistic approach for fiber tracking in human cardiac DTI., 2012, , . | | 3 |
| 38 | On simulated annealing with temperature-dependent energy and temperature-dependent communication. Statistics and Probability Letters, 2011, 81, 915-920. | 0.7 | 2 |
| 39 | A graphâ€based approach for automatic cardiac tractography. Magnetic Resonance in Medicine, 2010, 64, 1215-1229. | 3.0 | 22 |
| 40 | Optimization by Stochastic Continuation. SIAM Journal on Imaging Sciences, 2010, 3, 1096-1121. | 2.2 | 18 |
| 41 | Improved global cardiac tractography with simulated annealing. , 2009, , . | | 1 |
| 42 | Comparison of regularization methods for human cardiac diffusion tensor MRI. Medical Image Analysis, 2009, 13, 405-418. | 11.6 | 32 |
| 43 | Edge-Preserving Image Reconstruction with Wavelet-Domain Edge Continuation. Lecture Notes in Computer Science, 2009, , 13-22. | 1.3 | 0 |
| 44 | Cardiac Fibre Trace Clustering for the Interpretation of the Human Heart Architecture. Lecture Notes in Computer Science, 2009, , 39-48. | 1.3 | 1 |
| 45 | A global approach to cardiac tractography. , 2008, , . | | 5 |
| 46 | Towards In Vivo Diffusion Tensor MRI on Human Heart using Edge-Preserving Regularization. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6008-11. | 0.5 | 8 |
| 47 | Analysis of Cardiac Diffusion Tensor Magnetic Resonance Images Using Sparse Representation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4516-9. | 0.5 | 1 |
| 48 | A Stochastic Continuation Approach to Piecewise Constant Reconstruction. IEEE Transactions on Image Processing, 2007, 16, 2576-2589. | 9.8 | 30 |
| 49 | Stochastic Continuation - Opening New Horizons to Solving Difficult Optimization Problems. , 2007, , . | | 0 |
| 50 | Radiographic Testing of Anomalies in Thick Metal Components: Fitting the Standard Line-Integral Model. IEEE Transactions on Nuclear Science, 2007, 54, 1285-1297. | 2.0 | 3 |
| 51 | Magnetic resonance image reconstruction using analytic image representation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 73-76. | 1.6 | 6 |
| 52 | Radiographic Inspection of Thick Metal Components, Part I: Fitting the Standard Linear Image Formation Model., 2006,,. | | 3 |
| 53 | Radiographic Inspection of Thick Metal Components, Part II: a New Stochastic Approach to 3-D Reconstruction. , 2006, , . | | 1 |
| 54 | Stochastic nonlinear image restoration using the wavelet transform. IEEE Transactions on Image Processing, 2003, 12, 890-905. | 9.8 | 12 |

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| 55 | ON THE CONVERGENCE OF METROPOLIS-TYPE RELAXATION AND ANNEALING WITH CONSTRAINTS. Probability in the Engineering and Informational Sciences, 2002, 16, 427-452. | 0.8 | 3 |
| 56 | Enhancement of contrast regions in suboptimal ultrasound images with application to echocardiography. Ultrasound in Medicine and Biology, 2001, 27, 1583-1594. | 1.5 | 28 |
| 57 | Simulated annealing, acceleration techniques, and image restoration. IEEE Transactions on Image Processing, 1999, 8, 1374-1387. | 9.8 | 31 |
| 58 | A multi-sensor system for the non-invasive measurement of the activity of the autonomic nervous system. Sensors and Actuators B: Chemical, 1995, 27, 461-464. | 7.8 | 21 |