Gregery T Buzzard

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2287697/publications.pdf

Version: 2024-02-01

| | | 394421 | 345221 |
|----------|----------------|--------------|----------------|
| 85 | 1,522 | 19 | 36 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 0.5 | 0.5 | 0.5 | 1200 |
| 85 | 85 | 85 | 1398 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|--------------|-----------|
| 1 | Plug-and-Play Priors for Bright Field Electron Tomography and Sparse Interpolation. IEEE Transactions on Computational Imaging, 2016, , 1-1. | 4.4 | 158 |
| 2 | Plug-and-Play Methods for Magnetic Resonance Imaging: Using Denoisers for Image Recovery. IEEE Signal Processing Magazine, 2020, 37, 105-116. | 5 . 6 | 144 |
| 3 | Plug-and-Play Unplugged: Optimization-Free Reconstruction Using Consensus Equilibrium. SIAM Journal on Imaging Sciences, 2018, 11, 2001-2020. | 2.2 | 112 |
| 4 | State and Unknown Input Observers for Nonlinear Systems With Bounded Exogenous Inputs. IEEE Transactions on Automatic Control, 2017, 62, 5497-5510. | 5.7 | 72 |
| 5 | Global sensitivity analysis using sparse grid interpolation and polynomial chaos. Reliability Engineering and System Safety, 2012, 107, 82-89. | 8.9 | 67 |
| 6 | Modeling Mitochondrial Bioenergetics with Integrated Volume Dynamics. PLoS Computational Biology, 2010, 6, e1000632. | 3.2 | 62 |
| 7 | Support Vector Machine Informed Explicit Nonlinear Model Predictive Control Using Low-Discrepancy Sequences. IEEE Transactions on Automatic Control, 2017, 62, 135-148. | 5.7 | 53 |
| 8 | Variance-Based Global Sensitivity Analysis via Sparse-Grid Interpolation and Cubature. Communications in Computational Physics, 2011, 9, 542-567. | 1.7 | 45 |
| 9 | Photon level chemical classification using digital compressive detection. Analytica Chimica Acta, 2012, 755, 17-27. | 5 . 4 | 43 |
| 10 | Modelâ€based design of experiments for cellular processes. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 181-203. | 6.6 | 39 |
| 11 | State and unknown input observers for nonlinear systems with delayed measurements. Automatica, 2018, 95, 246-253. | 5.0 | 34 |
| 12 | Algebraic surfaces holomorphically dominable by â,,, 2. Inventiones Mathematicae, 2000, 139, 617-659. | 2. 5 | 33 |
| 13 | Digital compressive chemical quantitation and hyperspectral imaging. Analyst, The, 2013, 138, 4982. | 3.5 | 33 |
| 14 | Infinitely Many Periodic Attractors for Holomorphic Maps of 2 Variables. Annals of Mathematics, 1997, 145, 389. | 4.2 | 25 |
| 15 | Model-Based Analysis for Qualitative Data: An Application in Drosophila Germline Stem Cell Regulation. PLoS Computational Biology, 2014, 10, e1003498. | 3.2 | 25 |
| 16 | Dynamic Sparse Sampling for Confocal Raman Microscopy. Analytical Chemistry, 2018, 90, 4461-4469. | 6.5 | 25 |
| 17 | A Framework for Dynamic Image Sampling Based on Supervised Learning. IEEE Transactions on Computational Imaging, 2018, 4, 1-16. | 4.4 | 25 |
| 18 | An embedding of ? in ?2 with hyperbolic complement. Mathematische Annalen, 1996, 306, 539-546. | 1.4 | 22 |

| # | Article | IF | CITATIONS |
|----|--|------------|-----------|
| 19 | Binary Complementary Filters for Compressive Raman Spectroscopy. Applied Spectroscopy, 2018, 72, 69-78. | 2.2 | 21 |
| 20 | A Supervised Learning Approach for Dynamic Sampling. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-8. | 0.4 | 19 |
| 21 | Dynamic X-ray diffraction sampling for protein crystal positioning. Journal of Synchrotron Radiation, 2017, 24, 188-195. | 2.4 | 19 |
| 22 | Identification of I Kr Kinetics and Drug Binding in Native Myocytes. Annals of Biomedical Engineering, 2009, 37, 1294-1309. | 2.5 | 17 |
| 23 | A bioenergetic model of the mitochondrial population undergoing permeability transition. Journal of Theoretical Biology, 2010, 265, 672-690. | 1.7 | 17 |
| 24 | Maximally informative next experiments for nonlinear models. Mathematical Biosciences, 2018, 302, 1-8. | 1.9 | 17 |
| 25 | Secreted, receptor-associated bone morphogenetic protein regulators reduce stochastic noise intrinsic to many extracellular morphogen distributions. Journal of the Royal Society Interface, 2012, 9, 1073-1083. | 3.4 | 16 |
| 26 | Embedding Approximate Nonlinear Model Predictive Control at Ultrahigh Speed and Extremely Low Power. IEEE Transactions on Control Systems Technology, 2020, 28, 1092-1099. | 5.2 | 16 |
| 27 | A global tolerance approach to sensitivity analysis in linear programming. European Journal of Operational Research, 2018, 267, 321-337. | 5.7 | 15 |
| 28 | DEEP BACK PROJECTION FOR SPARSE-VIEW CT RECONSTRUCTION., 2018,,. | | 15 |
| 29 | Kupka-Smale theorem for automorphisms of â",n. Duke Mathematical Journal, 1998, 93, 487. | 1.5 | 14 |
| 30 | Kupka-Smale theorem for polynomial automorphisms of â,,,2 and persistence of heteroclinic intersections. Inventiones Mathematicae, 2005, 161, 45-89. | 2.5 | 14 |
| 31 | 4D X-Ray CT Reconstruction using Multi-Slice Fusion. , 2019, , . | | 14 |
| 32 | Distributed Iterative CT Reconstruction Using Multi-Agent Consensus Equilibrium. IEEE Transactions on Computational Imaging, 2020, 6, 1153-1166. | 4.4 | 14 |
| 33 | A Carleman type theorem for proper holomorphic embeddings. Arkiv for Matematik, 1997, 35, 157-169. | 0.5 | 13 |
| 34 | An interpolation theorem for holomorphic automorphisms of Cn. Journal of Geometric Analysis, 2000, 10, 101-108. | 1.0 | 13 |
| 35 | Robust explicit nonlinear model predictive control with integral sliding mode., 2014,,. | | 13 |
| 36 | Fluorescence modeling for optimized-binary compressive detection Raman spectroscopy. Optics Express, 2015, 23, 23935. | 3.4 | 13 |

| # | Article | IF | Citations |
|----|---|------|-----------|
| 37 | A Fatou-Bieberbach domain avoiding a neighborhood of a variety of codimension 2. Mathematische Annalen, 2000, 316, 699-702. | 1.4 | 12 |
| 38 | Safe Approximate Dynamic Programming via Kernelized Lipschitz Estimation. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 405-419. | 11.3 | 12 |
| 39 | Sharp Interface and Voltage Conservation in the Phase Field Method: Application to Cardiac Electrophysiology. SIAM Journal of Scientific Computing, 2008, 30, 837-854. | 2.8 | 11 |
| 40 | Unknown Input Estimation for Nonlinear Systems Using Sliding Mode Observers and Smooth Window Functions. SIAM Journal on Control and Optimization, 2018, 56, 3619-3641. | 2.1 | 11 |
| 41 | Multi-Resolution Data Fusion for Super Resolution Imaging. IEEE Transactions on Computational Imaging, 2022, 8, 81-95. | 4.4 | 11 |
| 42 | Optimal filters for high-speed compressive detection in spectroscopy. Proceedings of SPIE, 2013, , . | 0.8 | 10 |
| 43 | Resolving Early Signaling Events in T-Cell Activation Leading to IL-2 and FOXP3 Transcription. Processes, 2014, 2, 867-900. | 2.8 | 10 |
| 44 | Multi-Slice Fusion for Sparse-View and Limited-Angle 4D CT Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 448-462. | 4.4 | 10 |
| 45 | Hyperbolic automorphisms and holomorphic motions in C2. Michigan Mathematical Journal, 2001, 49, . | 0.4 | 9 |
| 46 | Tame sets, dominating maps, and complex tori. Transactions of the American Mathematical Society, 2002, 355, 2557-2568. | 0.9 | 8 |
| 47 | Efficient Basis Change for Sparse-Grid Interpolating Polynomials with Application to T-Cell Sensitivity Analysis. Computational Biology Journal, 2013, 2013, 1-10. | 0.6 | 8 |
| 48 | Efficient Optimization of Stimuli for Model-Based Design of Experiments to Resolve Dynamical Uncertainty. PLoS Computational Biology, 2015, 11, e1004488. | 3.2 | 8 |
| 49 | Multiple Model-Informed Open-Loop Control of Uncertain Intracellular Signaling Dynamics. PLoS Computational Biology, 2014, 10, e1003546. | 3.2 | 7 |
| 50 | Distributed unknown input observers for interconnected nonlinear systems., 2016,,. | | 7 |
| 51 | Separable Models for cone-beam MBIR Reconstruction. IS&T International Symposium on Electronic Imaging, 2018, 30, 181-1-1817. | 0.4 | 7 |
| 52 | Experimental Design for Dynamics Identification of Cellular Processes. Bulletin of Mathematical Biology, 2014, 76, 597-626. | 1.9 | 6 |
| 53 | Computationally Efficient Strategy for Modeling the Effect of Ion Current Modifiers. IEEE Transactions on Biomedical Engineering, 2008, 55, 3-13. | 4.2 | 5 |
| 54 | Robust parameter identification with adaptive sparse grid-based optimization for nonlinear systems biology models. , 2009, , . | | 5 |

| # | Article | IF | Citations |
|----|---|-----|-----------|
| 55 | Consensus equilibrium framework for super-resolution and extreme-scale CT reconstruction. , 2019, , . | | 5 |
| 56 | Efficient calculation of steady state probability distribution for stochastic biochemical reaction network. BMC Genomics, 2012, 13, S10. | 2.8 | 4 |
| 57 | Sparse-Grid-Based Adaptive Model Predictive Control of HL60 Cellular Differentiation. IEEE Transactions on Biomedical Engineering, 2012, 59, 456-463. | 4.2 | 4 |
| 58 | Correcting hypothalamic-pituitary-adrenal axis dysfunction using observer-based explicit nonlinear model predictive control., 2014, 2014, 3426-9. | | 4 |
| 59 | Sampling-based explicit nonlinear model predictive control for output tracking., 2016,,. | | 4 |
| 60 | Unknown input estimation via observers for nonlinear systems with measurement delays. , 2016, , . | | 4 |
| 61 | Convergence of Griddy Gibbs sampling and other perturbed Markov chains. Journal of Statistical Computation and Simulation, 2017, 87, 1379-1400. | 1.2 | 4 |
| 62 | A Model Based Neuron Detection Approach using Sparse Location Priors. IS&T International Symposium on Electronic Imaging, 2017, 29, 10-17. | 0.4 | 4 |
| 63 | Distributed Framework for Fast Iterative CT Reconstruction from View-subsets. IS&T International Symposium on Electronic Imaging, 2018, 2018, 102-1-1027. | 0.4 | 4 |
| 64 | Nondensity of stability for polynomial automorphisms of C^2. Indiana University Mathematics Journal, 1999, 48, 0-0. | 0.9 | 3 |
| 65 | Double sections, dominating maps, and the Jacobian fibration. American Journal of Mathematics, 2000, 122, 1061-1084. | 1.1 | 3 |
| 66 | Maps conjugating holomorphic maps in C^n. Indiana University Mathematics Journal, 2003, 52, 1135-1146. | 0.9 | 3 |
| 67 | EFFECTIVE SAMPLING SCHEMES FOR BEHAVIOR DISCRIMINATION IN NONLINEAR SYSTEMS. , 2014, 4, 535-554. | | 3 |
| 68 | Pointwise Besov Space Smoothing of Images. Journal of Mathematical Imaging and Vision, 2019, 61, 1-20. | 1.3 | 3 |
| 69 | Specifying informative experiment stimulation conditions for resolving dynamical uncertainty in biological systems., 2014, 2014, 298-301. | | 2 |
| 70 | A model-based framework for fast dynamic image sampling. , 2014, , . | | 2 |
| 71 | A Computational Study of the Effects of Syk Activity on B Cell Receptor Signaling Dynamics. Processes, 2015, 3, 75-97. | 2.8 | 2 |
| 72 | Robust state and unknown input estimation for nonlinear systems characterized by incremental multiplier matrices. , $2017, \ldots$ | | 2 |

| # | Article | IF | Citations |
|----|--|-----|-----------|
| 73 | Ultrafast embedded explicit model predictive control for nonlinear systems. , 2017, , . | | 2 |
| 74 | Synchrotron X-Ray Diffraction Dynamic Sampling for Protein Crystal Centering. IS&T International Symposium on Electronic Imaging, 2017, 29, 6-9. | 0.4 | 2 |
| 75 | Extensions of Hénon maps to the closed 4-ball. Ergodic Theory and Dynamical Systems, 2000, 20, 1319-1334. | 0.6 | 1 |
| 76 | Steady state probability approximation applied to stochastic model of biological network. , 2011, , . | | 1 |
| 77 | Feasible parameter space characterization with adaptive sparse grids for nonlinear systems biology models., 2011,,. | | 1 |
| 78 | Projected Multi-Agent Consensus Equilibrium for Ptychographic Image Reconstruction., 2021,,. | | 1 |
| 79 | Applications of sparse grid interpolation: sensitivity analysis and experiment design. Procedia, Social and Behavioral Sciences, 2010, 2, 7623-7624. | 0.5 | 0 |
| 80 | Systematically manipulating T-cell signaling dynamics via multiple model informed open-loop controller design. , 2012, , . | | 0 |
| 81 | Optimal Parameter Estimation for Long-Term Prediction in the Presence of Model Mismatch. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, . | 1.6 | O |
| 82 | Model-based Experiment Design, Initiation. , 2013, , 1407-1413. | | 0 |
| 83 | A Supervised Learning Approach for Dynamic Sampling (SLADS) in Raman Hyperspectral Imaging. IS&T International Symposium on Electronic Imaging, 2018, 30, 132-1-1323. | 0.4 | 0 |
| 84 | Multiagent Consensus Equilibrium in Molecular Structure Determination. Journal of Physical Chemistry A, 2020, 124, 9105-9112. | 2.5 | 0 |
| 85 | Sparse-View CT Reconstruction using Recurrent Stacked Back Projection. , 2021, , . | | O |