

Tryphon T Georgiou

List of Publications by Citations

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196
papers

4,161
citations

35
h-index

58
g-index

232
ext. papers

5,287
ext. citations

3.9
avg, IF

5.93
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 196 | . <i>IEEE Transactions on Automatic Control</i> , 1990 , 35, 673-686 | 5.9 | 402 |
| 195 | . <i>IEEE Transactions on Automatic Control</i> , 1988 , 33, 820-832 | 5.9 | 288 |
| 194 | Robustness analysis of nonlinear feedback systems: an input-output approach. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1200-1221 | 5.9 | 128 |
| 193 | On the computation of the gap metric. <i>Systems and Control Letters</i> , 1988 , 11, 253-257 | 2.4 | 127 |
| 192 | A generalized entropy criterion for Nevanlinna-Pick interpolation with degree constraint. <i>IEEE Transactions on Automatic Control</i> , 2001 , 45, 822-839 | 5.9 | 126 |
| 191 | Kullback-Leibler approximation of spectral density functions. <i>IEEE Transactions on Information Theory</i> , 2003 , 49, 2910-2917 | 2.8 | 111 |
| 190 | A new approach to spectral estimation: a tunable high-resolution spectral estimator. <i>IEEE Transactions on Signal Processing</i> , 2000 , 48, 3189-3205 | 4.8 | 101 |
| 189 | Realization of power spectra from partial covariance sequences. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1987 , 35, 438-449 | | 94 |
| 188 | On the Relation Between Optimal Transport and Schrödinger Bridges: A Stochastic Control Viewpoint. <i>Journal of Optimization Theory and Applications</i> , 2016 , 169, 671-691 | 1.6 | 91 |
| 187 | Noninvasive estimation of tissue temperature via high-resolution spectral analysis techniques. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 221-8 | 5 | 82 |
| 186 | The interpolation problem with a degree constraint. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 631-635 | 5.9 | 78 |
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| 183 | Graph Curvature for Differentiating Cancer Networks. <i>Scientific Reports</i> , 2015 , 5, 12323 | 4.9 | 67 |
| 182 | Relative entropy and the multivariable multidimensional moment problem. <i>IEEE Transactions on Information Theory</i> , 2006 , 52, 1052-1066 | 2.8 | 67 |
| 181 | The structure of state covariances and its relation to the power spectrum of the input. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 1056-1066 | 5.9 | 66 |
| 180 | Optimal Steering of a Linear Stochastic System to a Final Probability Distribution, Part II. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1170-1180 | 5.9 | 57 |

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| 179 | Colour of turbulence. <i>Journal of Fluid Mechanics</i> , 2017 , 812, 636-680 | 3.7 | 56 |
| 178 | Spectral analysis based on the state covariance: the maximum entropy spectrum and linear fractional parametrization. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 1811-1823 | 5.9 | 56 |
| 177 | Spectral estimation via selective harmonic amplification. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 29-42 | 5.9 | 51 |
| 176 | Graphs, causality, and stabilizability: Linear, shift-invariant systems on $L_2[0, \infty]$ <i>Mathematics of Control, Signals, and Systems</i> , 1993 , 6, 195-223 | 1.3 | 51 |
| 175 | Ricci curvature: An economic indicator for market fragility and systemic risk. <i>Science Advances</i> , 2016 , 2, e1501495 | 14.3 | 51 |
| 174 | Distances and Riemannian Metrics for Spectral Density Functions. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 3995-4003 | 4.8 | 49 |
| 173 | . <i>IEEE Transactions on Automatic Control</i> , 1992 , 37, 1133-1143 | 5.9 | 46 |
| 172 | On the robust stability of linear time-invariant plants with unstructured uncertainty. <i>IEEE Transactions on Automatic Control</i> , 1987 , 32, 201-207 | 5.9 | 46 |
| 171 | Robust Stability of Feedback Systems: A Geometric Approach Using the Gap Metric. <i>SIAM Journal on Control and Optimization</i> , 1993 , 31, 1518-1537 | 1.9 | 45 |
| 170 | A Topological Approach to Nevanlinna-Pick Interpolation. <i>SIAM Journal on Mathematical Analysis</i> , 1987 , 18, 1248-1260 | 1.7 | 45 |
| 169 | . <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 2476-2481 | 5.9 | 43 |
| 168 | . <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2137-2152 | 5.9 | 41 |
| 167 | Generalized interpolation in H^∞ with a complexity constraint. <i>Transactions of the American Mathematical Society</i> , 2004 , 358, 965-987 | 1 | 40 |
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| 165 | Stochastic Observability Test for Discrete-Time Kalman Filters. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 1356-1370 | 2.1 | 36 |
| 164 | Solution of the general moment problem via a one-parameter imbedding. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 811-826 | 5.9 | 36 |
| 163 | The parallel projection operators of a nonlinear feedback system. <i>Systems and Control Letters</i> , 1993 , 20, 79-85 | 2.4 | 36 |
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| 161 | Entropic and Displacement Interpolation: A Computational Approach Using the Hilbert Metric. <i>SIAM Journal on Applied Mathematics</i> , 2016 , 76, 2375-2396 | 1.8 | 34 |
| 160 | Distances and Riemannian Metrics for Multivariate Spectral Densities. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1723-1735 | 5.9 | 34 |
| 159 | Microstructure Imaging of Crossing (MIX) White Matter Fibers from diffusion MRI. <i>Scientific Reports</i> , 2016 , 6, 38927 | 4.9 | 34 |
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| 157 | w-Stability of feedback systems. <i>Systems and Control Letters</i> , 1989 , 13, 271-277 | 2.4 | 30 |
| 156 | Metrics for Power Spectra: An Axiomatic Approach. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 859-867 | 4.87 | 29 |
| 155 | . <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 516-518 | 5.9 | 28 |
| 154 | Network curvature as a hallmark of brain structural connectivity. <i>Nature Communications</i> , 2019 , 10, 4937 | 7.4 | 27 |
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| 148 | Geometric Methods for Spectral Analysis. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 1064-1074 | 4.8 | 22 |
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| 146 | On the computation of switching surfaces in optimal control: a Grobner basis approach. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 534-540 | 5.9 | 22 |
| 145 | On Matrix-Valued Monge-Kantorovich Optimal Mass Transport. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 373-382 | 5.9 | 21 |
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| 126 | Stochastic Dynamical Modeling of Turbulent Flows. <i>Annual Review of Control, Robotics, and Autonomous Systems</i> , 2020 , 3, 195-219 | 11.8 | 13 |

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| 122 | On the Geometry of Covariance Matrices. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 787-790 | 3.2 | 12 |
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| 120 | On a large-gain theorem. <i>Systems and Control Letters</i> , 1997 , 32, 231-234 | 2.4 | 11 |
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| 116 | Measure-Valued Spline Curves: An Optimal Transport Viewpoint. <i>SIAM Journal on Mathematical Analysis</i> , 2018 , 50, 5947-5968 | 1.7 | 11 |
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| 111 | . <i>IEEE Transactions on Circuits and Systems</i> , 1989 , 36, 568-574 | | 10 |
| 110 | Linear Models Based on Noisy Data and the Frisch Scheme. <i>SIAM Review</i> , 2015 , 57, 167-197 | 7.4 | 9 |
| 109 | An Efficient Algorithm for Matrix-Valued and Vector-Valued Optimal Mass Transport. <i>Journal of Scientific Computing</i> , 2018 , 77, 79-100 | 2.3 | 9 |
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| 105 | Sparse factor analysis via likelihood and ℓ_1 -regularization 2011 , | | 8 |
| 104 | A new distribution metric for image segmentation 2008 , | | 8 |
| 103 | Metric uncertainty and nonlinear feedback stabilization 1995 , 88-98 | | 8 |
| 102 | Robust Control of Feedback Systems with Combined Plant and Controller Uncertainty 1990 , | | 8 |
| 101 | . <i>IEEE Transactions on Automatic Control</i> , 1988 , 33, 1161-1165 | 5.9 | 8 |
| 100 | Stability Theory of Stochastic Models in Opinion Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 522-533 | 5.9 | 8 |
| 99 | Likelihood Analysis of Power Spectra and Generalized Moment Problems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4580-4592 | 5.9 | 7 |
| 98 | Fractional SIR epidemiological models. <i>Scientific Reports</i> , 2020 , 10, 20882 | 4.9 | 7 |
| 97 | Efficient Robust Routing for Single Commodity Network Flows. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2287-2294 | 5.9 | 7 |
| 96 | Interpolation of matrices and matrix-valued densities: The unbalanced case. <i>European Journal of Applied Mathematics</i> , 2019 , 30, 458-480 | 1 | 7 |
| 95 | Gradient flows in uncertainty propagation and filtering of linear Gaussian systems 2017 , | | 7 |
| 94 | State covariances and the matrix completion problem 2013 , | | 7 |
| 93 | Avoiding ambiguity in beamspace processing. <i>IEEE Signal Processing Letters</i> , 2005 , 12, 372-375 | 3.2 | 7 |
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| 90 | Wasserstein Geometry of Quantum States and Optimal Transport of Matrix-Valued Measures. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2018 , 139-150 | 0.2 | 7 |

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| 89 | Stochastic control and non-equilibrium thermodynamics: fundamental limits. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1 | 5.9 | 7 |
| 88 | Stochastic Control Liaisons: Richard Sinkhorn Meets Gaspard Monge on a Schrödinger Bridge. <i>SIAM Review</i> , 2021 , 63, 249-313 | 7.4 | 7 |
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| 86 | Matricial Wasserstein-1 Distance 2017 , 1, 14-19 | | 6 |
| 85 | An ADMM algorithm for matrix completion of partially known state covariances 2013 , | | 6 |
| 84 | l_2 state-feedback control with a prescribed rate of exponential convergence. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1476-1481 | 5.9 | 6 |
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| 81 | On a Schur-algorithm based approach to spectral factorization: State-space formulae. <i>Systems and Control Letters</i> , 1988 , 10, 123-129 | 2.4 | 6 |
| 80 | On the matrix Monge-Kantorovich problem. <i>European Journal of Applied Mathematics</i> , 2020 , 31, 574-600 | 1 | 6 |
| 79 | Relaxed Schrödinger bridges and robust network routing. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 923-931 | 4 | 6 |
| 78 | Metrics for Matrix-valued Measures via Test Functions 2014 , | | 5 |
| 77 | Analytic Interpolation With a Degree Constraint for Matrix-Valued Functions. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1075-1088 | 5.9 | 5 |
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| 75 | Decomposition of Toeplitz Matrices via Convex Optimization. <i>IEEE Signal Processing Letters</i> , 2006 , 13, 537-540 | 3.2 | 5 |
| 74 | Network Curvature as a Hallmark of Brain Structural Connectivity | | 5 |
| 73 | Perturbation of system dynamics and the covariance completion problem 2016 , | | 5 |
| 72 | Alternating direction optimization algorithms for covariance completion problems 2015 , | | 4 |

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| 70 | Completion of partially known turbulent flow statistics 2014 , | | 4 |
| 69 | Signal analysis, moment problems & uncertainty measures | | 4 |
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| 67 | Linear systems and robustness: a graph point of view 1992 , 114-121 | | 4 |
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| 65 | Maximal power output of a stochastic thermodynamic engine. <i>Automatica</i> , 2021 , 123, 109366 | 5-7 | 4 |
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| 62 | Weight Selection in Interpolation with a Dimensionality Constraint 2006 , | | 3 |
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| 59 | Robustness of a relaxation oscillator | | 3 |
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| 55 | Geometric aspects of the Carathéodory extension problem. <i>Linear Algebra and Its Applications</i> , 1994 , 203-204, 209-251 | 0.9 | 3 |
| 54 | Toeplitz Covariance Matrices and the von Neumann Relative Entropy 2003 , 23-29 | | 3 |

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| 52 | Principles of Lossless Adjustable One-Ports. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 252-262 | 5.9 | 3 |
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| 42 | Robust Stabilization in the Gap Metric: Controller Design for Distributed Plants 1990 , | | 2 |
| 41 | Interpolation of binary series based on Discrete-Time Markov Chain Models. <i>Water Resources Research</i> , 1987 , 23, 515-518 | 5.4 | 2 |
| 40 | Metrics and Morphing of Power Spectra. <i>Lecture Notes in Control and Information Sciences</i> , 2008 , 125-135 | 5.5 | 2 |
| 39 | Multi-marginal Schrödinger Bridges. <i>Lecture Notes in Computer Science</i> , 2019 , 725-732 | 0.9 | 2 |
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| 37 | Optimal Mass Transport over Bridges. <i>Lecture Notes in Computer Science</i> , 2015 , 77-84 | 0.9 | 2 |
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| 35 | Geometry of correlation networks for studying the biology of cancer 2016 , | | 2 |
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| 29 | Rudolf E. Kalman's quest for algebraic characterizations of positivity. <i>Annual Reviews in Control</i> , 2018 , 45, 205-206 | 10.3 | 1 |
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| 27 | Stochastic Bridges of Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 1-1 | 5.9 | 1 |
| 26 | Matrix-valued Monge-Kantorovich optimal mass transport 2013 , | | 1 |
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- 17 Underdamped stochastic thermodynamic engines in contact with a heat bath with arbitrary temperature profile. *Physical Review E*, **2021**, 103, 062103 2.4 ○
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