# Nallappan Gunasekaran

List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 67 papers | 1,242 citations | 430442<br>18 h-index | 454577<br>30 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 682 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | State estimation of T–S fuzzy delayed neural networks with Markovian jumping parameters using sampled-data control. Fuzzy Sets and Systems, 2017, 306, 87-104. | 1.6 | 126 |
| 2 | Sampled-data filtering of Takagi–Sugeno fuzzy neural networks with interval time-varying delays. Fuzzy Sets and Systems, 2017, 316, 69-81. | 1.6 | 70 |
| 3 | Robust Sampled-data Fuzzy Control for Nonlinear Systems and Its Applications: Free-Weight Matrix Method. IEEE Transactions on Fuzzy Systems, 2019, 27, 2130-2139. | 6.5 | 55 |
| 4 | Robust stability of hopfield delayed neural networks via an augmented L-K functional. Neurocomputing, 2017, 234, 198-204. | 3.5 | 53 |
| 5 | Sampled-Data Stabilization for Fuzzy Genetic Regulatory Networks with Leakage Delays. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 271-285. | 1.9 | 52 |
| 6 | Strict dissipativity synchronization for delayed static neural networks: An event-triggered scheme. Chaos, Solitons and Fractals, 2021, 150, 111212. | 2.5 | 52 |
| 7 | Sampled-data synchronization of delayed multi-agent networks and its application to coupled circuit. Neurocomputing, 2020, 413, 499-511. | 3.5 | 45 |
| 8 | Finite-time synchronization of sampled-data T–S fuzzy complex dynamical networks subject to average dwell-time approach. Fuzzy Sets and Systems, 2019, 374, 40-59. | 1.6 | 38 |
| 9 | Stability analysis for uncertain switched delayed complex-valued neural networks. Neurocomputing, 2019, 367, 198-206. | 3.5 | 32 |
| 10 | Finite-time and sampled-data synchronization of complex dynamical networks subject to average dwell-time switching signal. Neural Networks, 2022, 149, 137-145. | 3.3 | 28 |
| 11 | Extended Dissipativity and Non-Fragile Synchronization for Recurrent Neural Networks With Multiple Time-Varying Delays via Sampled-Data Control. IEEE Access, 2021, 9, 31454-31466. | 2.6 | 25 |
| 12 | Stochastic sampled-data controller for T–S fuzzy chaotic systems and its applications. IET Control Theory and Applications, 2019, 13, 1834-1843. | 1.2 | 24 |
| 13 | Novel results on global stability analysis for multiple time-delayed BAM neural networks under parameter uncertainties. Chaos, Solitons and Fractals, 2021, 152, 111441. | 2.5 | 24 |
| 14 | Machine learning-based human-robot interaction in ITS. Information Processing and Management, 2022, 59, 102750. | 5.4 | 23 |
| 15 | Entropy analysis for ethylene glycol hybrid nanofluid flow with elastic deformation, radiation, non-uniform heat generation/absorption, and inclined Lorentz force effects. Case Studies in Thermal Engineering, 2022, 30, 101639. | 2.8 | 22 |
| 16 | EFFECT OF FAT CONTENT AND TEMPERATURE ON DIELECTRIC PROPERTIES OF GROUND BEEF. Transactions of the American Society of Agricultural Engineers, 2005, 48, 673-680. | 0.9 | 21 |
| 17 | Sampled-data state-estimation of delayed complex-valued neural networks. International Journal of Systems Science, 2020, 51, 303-312. | 3.7 | 21 |
| 18 | Event-Triggered $L_2$–$L_\infty$ Filtering for Network-Based Neutral Systems With Time-Varying Delays via T-S Fuzzy Approach. IEEE Access, 2021, 9, 145133-145147. | 2.6 | 20 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Exponential sampled-data control for T–S fuzzy systems: application to Chua's circuit. International Journal of Systems Science, 2019, 50, 2979-2992. | 3.7 | 19 |
| 20 | Existence results for coupled system of nonlinear differential equations and inclusions involving sequential derivatives of fractional order. AIMS Mathematics, 2021, 7, 723-755. | 0.7 | 19 |
| 21 | Dynamical analysis of a delayed food chain model with additive Allee effect. Advances in Difference Equations, 2021, 2021, . | 3.5 | 18 |
| 22 | New Global Asymptotic Robust Stability of Dynamical Delayed Neural Networks via Intervalized Interconnection Matrices. IEEE Transactions on Cybernetics, 2022, 52, 11794-11804. | 6.2 | 18 |
| 23 | Nie–Tan fuzzy method of fault–tolerant wind energy conversion systems via sampled–data control. IET Control Theory and Applications, 2020, 14, 1516-1523. | 1.2 | 18 |
| 24 | Novel Results on Global Robust Stability Analysis for Dynamical Delayed Neural Networks Under Parameter Uncertainties. IEEE Access, 2020, 8, 178108-178116. | 2.6 | 17 |
| 25 | Finite difference scheme for singularly perturbed reaction diffusion problem of partial delay differential equation with nonlocal boundary condition. Advances in Difference Equations, 2021, 2021, . | 3.5 | 17 |
| 26 | Dynamical Analysis of T–S Fuzzy Financial Systems: A Sampled-Data Control Approach. International Journal of Fuzzy Systems, 2022, 24, 1944-1957. | 2.3 | 16 |
| 27 | Finite Time $H_\infty$ Boundedness of Discrete-time Markovian Jump Neural Networks with Time-varying Delays. International Journal of Control, Automation and Systems, 2018, 16, 181-188. | 1.6 | 14 |
| 28 | Delay-dependent $${\mathcal {H}}_\infty$$ $H_\infty$ performance state estimation of static delayed neural networks using sampled-data control. Neural Computing and Applications, 2018, 30, 539-550. | 3.2 | 14 |
| 29 | Sampled-Data State Estimation for Neural Networks with Additive Time–Varying Delays. Acta Mathematica Scientia, 2019, 39, 195-213. | 0.5 | 14 |
| 30 | Generalized linear differential equation using Hyers-Ulam stability approach. AIMS Mathematics, 2021, 6, 1607-1623. | 0.7 | 14 |
| 31 | The dynamics of a Leslie type predator–prey model with fear and Allee effect. Advances in Difference Equations, 2021, 2021, . | 3.5 | 14 |
| 32 | Identifying Partial Topological Structures of Stochastic Multi-Group Models with Multiple Dispersals via Graph-Theoretic Method. Fractal and Fractional, 2022, 6, 371. | 1.6 | 14 |
| 33 | State estimation of static neural networks with interval time-varying delays and sampled-data control. Computational and Applied Mathematics, 2018, 37, 183-201. | 1.3 | 13 |
| 34 | Finite-time $H_\infty$ boundedness of discrete-time neural networks normbounded disturbances with time-varying delay. International Journal of Control, Automation and Systems, 2017, 15, 2681-2689. | 1.6 | 12 |
| 35 | Design of sampled-data control for multiple-time delayed generalised neural networks based on delay-partitioning approach. International Journal of Systems Science, 2017, 48, 2794-2810. | 3.7 | 12 |
| 36 | Non-fragile synchronisation of mixed delayed neural networks with randomly occurring controller gain fluctuations. International Journal of Systems Science, 2018, 49, 3354-3364. | 3.7 | 12 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Dynamical Analysis and Sampled-Data Stabilization of Memristor-Based Chua's Circuits. IEEE Access, 2021, 9, 25648-25658. | 2.6 | 12 |
| 38 | Almost Sure Consensus of Multi-Agent Systems: An Intermittent Noise. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2897-2901. | 2.2 | 12 |
| 39 | A study on **$Y(Q,S,R)$-$\gamma Y$**-dissipative synchronisation of coupled reaction–diffusion neural networks with time-varying delays. International Journal of Systems Science, 2018, 49, 755-765. | 3.7 | 11 |
| 40 | Design of passivity and passification for delayed neural networks with Markovian jump parameters via non-uniform sampled-data control. Neural Computing and Applications, 2018, 30, 595-605. | 3.2 | 11 |
| 41 | Sampled-data state estimation of Markovian jump static neural networks with interval time-varying delays. Journal of Computational and Applied Mathematics, 2018, 343, 217-229. | 1.1 | 11 |
| 42 | Sampled-Data State Estimation of Neutral Type Neural Networks with Mixed Time-Varying Delays. Neural Processing Letters, 2019, 50, 357-378. | 2.0 | 11 |
| 43 | Finite-Time $L_\infty$ Performance State Estimation of Recurrent Neural Networks with Sampled-Data Signals. Neural Processing Letters, 2020, 51, 1379-1392. | 2.0 | 11 |
| 44 | Design of Stochastic Passivity and Passification for Delayed BAM Neural Networks with Markov Jump Parameters via Non-uniform Sampled-Data Control. Neural Processing Letters, 2021, 53, 391-404. | 2.0 | 11 |
| 45 | Exponential sampled-data fuzzy stabilization of nonlinear systems and its application to basic buck converters. IET Control Theory and Applications, 2021, 15, 1157-1168. | 1.2 | 11 |
| 46 | $L_\infty$/passive non-fragile synchronisation of Markovian jump stochastic complex dynamical networks with time-varying delays. International Journal of Systems Science, 2021, 52, 1270-1283. | 3.7 | 11 |
| 47 | A Novel Discrete-Time Leslie–Gower Model with the Impact of Allee Effect in Predator Population. Complexity, 2022, 2022, 1-21. | 0.9 | 11 |
| 48 | Finite-time exponential synchronization of reaction-diffusion delayed complex-dynamical networks. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 1465-1477. | 0.6 | 10 |
| 49 | Comparative Study on Numerical Methods for Singularly Perturbed Advanced-Delay Differential Equations. Journal of Mathematics, 2021, 2021, 1-15. | 0.5 | 10 |
| 50 | A study on fractional differential equations using the fractional Fourier transform. Advances in Difference Equations, 2020, 2020, . | 3.5 | 10 |
| 51 | Analytical Study on Sodium Alginate Based Hybrid Nanofluid Flow through a Shrinking/Stretching Sheet with Radiation, Heat Source and Inclined Lorentz Force Effects. Fractal and Fractional, 2022, 6, 68. | 1.6 | 10 |
| 52 | Global Exponential Stability of Fractional Order Complex-Valued Neural Networks with Leakage Delay and Mixed Time Varying Delays. Fractal and Fractional, 2022, 6, 140. | 1.6 | 9 |
| 53 | Fractional Fourier transform and stability of fractional differential equation on Lizorkin space. Advances in Difference Equations, 2020, 2020, . | 3.5 | 8 |
| 54 | Anesthesia for caesarean section and immediate neonatal outcome. Indian Journal of Pediatrics, 1995, 62, 219-223. | 0.3 | 7 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | The Fourier transform approach to Hyers-Ulam stability of differential equation of second order. Journal of Physics: Conference Series, 2020, 1597, 012027. | 0.3 | 7 |
| 56 | Neonatal effects of anesthesia for caesarean section. Indian Journal of Pediatrics, 1995, 62, 109-113. | 0.3 | 6 |
| 57 | Study on bifurcation analysis and Takagi–Sugeno fuzzy sampled–data stabilization of permanent magnet synchronous motor systems. Mathematical Methods in the Applied Sciences, 0, , . | 1.2 | 6 |
| 58 | Non-Invasive Estimation of Hemoglobin in Blood Using Color Analysis. , 2006, , . | | 5 |
| 59 | Global Stability Analysis of Neural Networks with Constant Time Delay via Frobenius Norm. Mathematical Problems in Engineering, 2020, 2020, 1-14. | 0.6 | 5 |
| 60 | A New Approach to Hyers-Ulam Stability of r -Variable Quadratic Functional Equations. Journal of Function Spaces, 2021, 2021, 1-10. | 0.4 | 5 |
| 61 | Representing a Heterogeneous Pharmaceutical Knowledge-Graph with Textual Information. Frontiers in Research Metrics and Analytics, 2021, 6, 670206. | 0.9 | 5 |
| 62 | Dissipativity analysis of discrete-time Markovian jumping neural networks with time-varying delays. Journal of Difference Equations and Applications, 2018, 24, 859-871. | 0.7 | 3 |
| 63 | Unsteady mixed convection nonlinear radiative Casson nanofluid flow with convective boundary condition, heat source and inclined magnetic field effects. Journal of Applied Mathematics and Computational Mechanics, 2021, 20, 65-76. | 0.3 | 3 |
| 64 | Global Robust Stability Analysis for Hybrid BAM Neural Networks. , 2021, , . | | 3 |
| 65 | Sampled-data state estimation for delayed Markovian jump neural networks based on passive theory. , 2016, , . | | 1 |
| 66 | Stability of an non-additive functional equation. Journal of Physics: Conference Series, 2020, 1597, 012042. | 0.3 | 0 |
| 67 | A new upper bound for global asymptotic robust stability of BAM neural networks under multiple time-delays*. , 2022, , . | | 0 |