

# Qi-Chun Zhang

## List of Publications by Year in descending order

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35  
papers

499  
citations

840776  
11  
h-index

752698  
20  
g-index

35  
all docs

35  
docs citations

35  
times ranked

192  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | An introductory survey of probability density function control. Systems Science and Control Engineering, 2019, 7, 158-170.   | 3.1 | 75        |
| 2  | RBFNN-Based Minimum Entropy Filtering for a Class of Stochastic Nonlinear Systems. IEEE Transactions on Automatic Control, 2020, 65, 376-381.  | 5.7 | 61        |
| 3  | EKF-Based Enhanced Performance Controller Design for Nonlinear Stochastic Systems. IEEE Transactions on Automatic Control, 2018, 63, 1155-1162.  | 5.7 | 56        |
| 4  | Output Feedback Stabilization for a Class of Multi-Variable Bilinear Stochastic Systems With Stochastic Coupling Attenuation. IEEE Transactions on Automatic Control, 2017, 62, 2936-2942. | 5.7 | 40        |
| 5  | Decoupling control in statistical sense: minimised mutual information algorithm. International Journal of Advanced Mechatronic Systems, 2016, 7, 61.                                       | 0.2 | 24        |
| 6  | Performance enhanced Kalman filter design for non-Gaussian stochastic systems with data-based minimum entropy optimisation. AIMS Electronics and Electrical Engineering, 2019, 3, 382-396. | 1.5 | 21        |
| 7  | A Novel Data-based Stochastic Distribution Control for Non-Gaussian Stochastic Systems. IEEE Transactions on Automatic Control, 2021, , 1-1.   | 5.7 | 20        |
| 8  | Defect Recognition in Concrete Ultrasonic Detection Based on Wavelet Packet Transform and Stochastic Configuration Networks. IEEE Access, 2021, 9, 9284-9295.                              | 4.2 | 19        |
| 9  | Minimized coupling in probability sense for a class of multivariate dynamic stochastic control systems. , 2015, , .  |     | 18        |
| 10 | An EKF-Based Performance Enhancement Scheme for Stochastic Nonlinear Systems by Dynamic Set-Point Adjustment. IEEE Access, 2020, 8, 62261-62272.   | 4.2 | 16        |
| 11 | Output Feedback Stabilization for MIMO Semi-linear Stochastic Systems with Transient Optimisation. International Journal of Automation and Computing, 2020, 17, 83-95.                     | 4.5 | 14        |
| 12 | Enhanced performance controller design for stochastic systems by adding extra state estimation onto the existing closed loop control. , 2016, , .  |     | 13        |
| 13 | Neural Membrane Mutual Coupling Characterisation Using Entropy-Based Iterative Learning Identification. IEEE Access, 2020, 8, 205231-205243.   | 4.2 | 13        |
| 14 | Observer-based parametric decoupling controller design for a class of multi-variable non-linear uncertain systems. Systems Science and Control Engineering, 2018, 6, 258-267.              | 3.1 | 13        |
| 15 | A statistical description of pairwise interaction between nerve fibres?. , 2017, , .   |     | 12        |
| 16 | Ultrasonic based concrete defects identification <i>via</i> wavelet packet transform and GA-BP neural network. PeerJ Computer Science, 2021, 7, e635.                                      | 4.5 | 12        |
| 17 | Parametric covariance assignment using a reduced-order closed-form covariance model. Systems Science and Control Engineering, 2016, 4, 78-86.  | 3.1 | 10        |
| 18 | A model study of the neural interaction via mutual coupling factor identification. , 2017, 2017, 3329-3332.  |     | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Probabilistic Decoupling Control for Stochastic Non-Linear Systems Using EKF-Based Dynamic Set-Point Adjustment. , 2018, , .  |     | 10        |
| 20 | Stochastic distribution tracking control for stochastic non-linear systems via probability density function vectorisation. Transactions of the Institute of Measurement and Control, 2021, 43, 3149-3157.     | 1.7 | 7         |
| 21 | Fuzzy Command Filtered Backstepping Control for Nonlinear System With Nonlinear Faults. IEEE Access, 2021, 9, 60409-60418.  | 4.2 | 6         |
| 22 | A Wavelet Packet Transform and Convolutional Neural Network Method Based Ultrasonic Detection Signals Recognition of Concrete. Sensors, 2022, 22, 3863.   | 3.8 | 6         |
| 23 | Entropy-based Iterative Learning Estimation for Stochastic Non-linear Systems and Its Application to Neural Membrane Potential Interaction. , 2019, , .   |     | 4         |
| 24 | Variance and Entropy Assignment for Continuous-Time Stochastic Nonlinear Systems. Entropy, 2022, 24, 25.  | 2.2 | 4         |
| 25 | Minimum mutual information control for multi-variable non-Gaussian stochastic systems. , 2015, , .  |     | 3         |
| 26 | Design and Performance Analysis of an Ultrasonic System for Health Monitoring of Concrete Structure. Sensors, 2021, 21, 6606.   | 3.8 | 3         |
| 27 | Probability Density Function Control for Stochastic Nonlinear Systems using Monte Carlo Simulation. IFAC-PapersOnLine, 2020, 53, 1288-1293.   | 0.9 | 3         |
| 28 | Unsupervised Learning for Oil Drilling Data Classification. , 2021, , .   |     | 3         |
| 29 | A Survey of the Probability Density Function Control for Stochastic Dynamic Systems. , 2018, , .  |     | 1         |
| 30 | Output Feedback Stabilization for Dynamic MIMO Semi-linear Stochastic Systems with Output Randomness Attenuation. , 2018, , .   |     | 1         |
| 31 | Parametric Co-variance Assignment for a Class of Multivariable Stochastic Uncertain Systems: Output Feedback Stabilization Approach. Advances in Science, Technology and Engineering Systems, 2018, 3, 45-51. | 0.5 | 1         |
| 32 | Parametric decoupling control strategy for a class of nonlinear uncertain systems via observer-based output feedback. , 2017, , .   |     | 0         |
| 33 | Entropy-based Extended Kalman Filtering for Stochastic Non-linear Systems with Polynomial Compensation. , 2019, , .   |     | 0         |
| 34 | Data-driven Distribution Tracking for Stochastic Non-linear Systems via PID Design. , 2019, , .   |     | 0         |
| 35 | Variance Assignment for a Class of Stochastic Non-linear Systems. , 2021, , .   |     | 0         |