# Jin-Ya Su

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 60 papers | 2,297 citations | 257450 24 h-index | 243625 44 g-index |
| 61 all docs | 61 docs citations | 61 times ranked | 1975 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Extended state observer-based nonsingular terminal sliding mode controller for a DC-DC buck converter with disturbances: theoretical analysis and experimental verification. International Journal of Control, 2023, 96, 1661-1671. | 1.9 | 8 |
| 2 | Improving Synthetic to Realistic Semantic Segmentation With Parallel Generative Ensembles for Autonomous Urban Driving. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1496-1506. | 3.8 | 3 |
| 3 | Spectral analysis and mapping of blackgrass weed by leveraging machine learning and UAV multispectral imagery. Computers and Electronics in Agriculture, 2022, 192, 106621. | 7.7 | 27 |
| 4 | Snow Coverage Mapping by Learning from Sentinel-2 Satellite Multispectral Images via Machine Learning Algorithms. Remote Sensing, 2022, 14, 782. | 4.0 | 8 |
| 5 | A multi-sensory stimulating attention model for cities' taxi service demand prediction. Scientific Reports, 2022, 12, 3065. | 3.3 | 2 |
| 6 | Editorial: Smart Hospital Innovation: Technology, Service, and Policy. Frontiers in Public Health, 2022, 10, 845577. | 2.7 | 2 |
| 7 | Nonlinear ESO-based vibration control for an all-clamped piezoelectric plate with disturbances and time delay: Design and hardware implementation. Journal of Intelligent Material Systems and Structures, 2022, 33, 2321-2335. | 2.5 | 7 |
| 8 | UAV spraying on citrus crop: impact of tank-mix adjuvant on the contact angle and droplet distribution. PeerJ, 2022, 10, e13064. | 2.0 | 7 |
| 9 | UAV Multispectral Remote Sensing for Yellow Rust Mapping: Opportunities and Challenges. Smart Agriculture, 2022, , 107-122. | 0.4 | 3 |
| 10 | Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4706-4715. | 9.3 | 36 |
| 11 | Aerial Visual Perception in Smart Farming: Field Study of Wheat Yellow Rust Monitoring. IEEE Transactions on Industrial Informatics, 2021, 17, 2242-2249. | 11.3 | 96 |
| 12 | Dynamic clustering analysis for driving styles identification. Engineering Applications of Artificial Intelligence, 2021, 97, 104096. | 8.1 | 23 |
| 13 | State and parameter estimation of the AquaCrop model for winter wheat using sensitivity informed particle filter. Computers and Electronics in Agriculture, 2021, 180, 105909. | 7.7 | 19 |
| 14 | Active disturbance rejection vibration control for an all-clamped piezoelectric plate with delay. Control Engineering Practice, 2021, 108, 104719. | 5.5 | 34 |
| 15 | A fast simulation method for analysis of SEE in VLSI. Microelectronics Reliability, 2021, 120, 114110. | 1.7 | 3 |
| 16 | The short-term associations of chronic obstructive pulmonary disease hospitalizations with meteorological factors and air pollutants in Southwest China: a time-series study. Scientific Reports, 2021, 11, 12914. | 3.3 | 5 |
| 17 | Ir-UNet: Irregular Segmentation U-Shape Network for Wheat Yellow Rust Detection by UAV Multispectral Imagery. Remote Sensing, 2021, 13, 3892. | 4.0 | 17 |
| 18 | Probabilistic faster R-CNN with stochastic region proposing: Towards object detection and recognition in remote sensing imagery. Neurocomputing, 2021, 459, 290-301. | 5.9 | 25 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Sentinel-2 Satellite Imagery for Urban Land Cover Classification by Optimized Random Forest Classifier. Applied Sciences (Switzerland), 2021, 11, 543. | 2.5 | 50 |
| 20 | Implicit Personalization in Driving Assistance: State-of-the-Art and Open Issues. IEEE Transactions on Intelligent Vehicles, 2020, 5, 397-413. | 12.7 | 31 |
| 21 | Wheat Stripe Rust Grading by Deep Learning With Attention Mechanism and Images From Mobile Devices. Frontiers in Plant Science, 2020, 11, 558126. | 3.6 | 62 |
| 22 | Machine Learning-Based Crop Drought Mapping System by UAV Remote Sensing RGB Imagery. Unmanned Systems, 2020, 08, 71-83. | 3.6 | 36 |
| 23 | Experimental evaluation of UAV spraying for peach trees of different shapes: Effects of operational parameters on droplet distribution. Computers and Electronics in Agriculture, 2020, 170, 105282. | 7.7 | 63 |
| 24 | Output feedback control for mobile robot systems with significant external disturbances. Science China Information Sciences, 2020, 63, 1. | 4.3 | 7 |
| 25 | Bayesian calibration of AquaCrop model for winter wheat by assimilating UAV multi-spectral images. Computers and Electronics in Agriculture, 2019, 167, 105052. | 7.7 | 25 |
| 26 | Spatio-temporal monitoring of wheat yellow rust using UAV multispectral imagery. Computers and Electronics in Agriculture, 2019, 167, 105035. | 7.7 | 60 |
| 27 | A machine learning based personalized system for driving state recognition. Transportation Research Part C: Emerging Technologies, 2019, 105, 241-261. | 7.6 | 64 |
| 28 | Trajectory Clustering Aided Personalized Driver Intention Prediction for Intelligent Vehicles. IEEE Transactions on Industrial Informatics, 2019, 15, 3693-3702. | 11.3 | 38 |
| 29 | New Driver Workload Prediction Using Clustering-Aided Approaches. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 64-70. | 9.3 | 11 |
| 30 | Potential Bands of Sentinel-2A Satellite for Classification Problems in Precision Agriculture. International Journal of Automation and Computing, 2019, 16, 16-26. | 4.5 | 37 |
| 31 | Model-Based Fault Diagnosis System Verification Using Reachability Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 742-751. | 9.3 | 38 |
| 32 | Personalized Driver Workload Inference by Learning From Vehicle Related Measurements. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 159-168. | 9.3 | 29 |
| 33 | Locust Recognition and Detection via Aggregate Channel Features. , 2019, , . | | 8 |
| 34 | Harvest-aid application strategy in different cotton planting densities by unmanned aerial vehicle. International Journal of Precision Agricultural Aviation, 2019, 2, 31-41. | 0.2 | 2 |
| 35 | Integration of Calibration and Forcing Methods for Predicting Timely Crop States by Using AquaCrop-OS Model. , 2019, , . | | 1 |
| 36 | Bayesian Estimation of A Periodically-Releasing Biochemical Source Using Sensor Networks. , 2018, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 37 | Bayesian Calibration of AquaCrop Model. , 2018, , . | | 1 |
| 38 | Wheat Drought Assessment by Remote Sensing Imagery Using Unmanned Aerial Vehicle. , 2018, , . | | 4 |
| 39 | Wheat yellow rust monitoring by learning from multispectral UAV aerial imagery. Computers and Electronics in Agriculture, 2018, 155, 157-166. | 7.7 | 180 |
| 40 | Further results on â€œReduced order disturbance observer for discrete-time linear systemsâ€•. Automatica, 2018, 93, 550-553. | 5.0 | 21 |
| 41 | Disturbance Observer Based Control with Anti-Windup Applied to a Small Fixed Wing UAV for Disturbance Rejection. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 329-346. | 3.4 | 56 |
| 42 | Band selection in sentinel-2 satellite for agriculture applications. , 2017, , . | | 43 |
| 43 | Driver yawning detection based on long short term memory networks. , 2017, , . | | 27 |
| 44 | Approximate Gaussian conjugacy: parametric recursive filtering under nonlinearity, multimodality, uncertainty, and constraint, and beyond. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1913-1939. | 2.6 | 58 |
| 45 | Dimension Reduction Aided Hyperspectral Image Classification with a Small-sized Training Dataset: Experimental Comparisons. Sensors, 2017, 17, 2726. | 3.8 | 35 |
| 46 | On Relationship Between Time-Domain and Frequency-Domain Disturbance Observers and Its Applications. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, . | 1.6 | 51 |
| 47 | Data-driven situation awareness algorithm for vehicle lane change. , 2016, , . | | 2 |
| 48 | Dynamic decision making in lane change: Game theory with receding horizon. , 2016, , . | | 30 |
| 49 | Fault diagnosis for vehicle lateral dynamics with robust threshold. , 2016, , . | | 8 |
| 50 | Reduced-order disturbance observer design for discrete-time linear stochastic systems. Transactions of the Institute of Measurement and Control, 2016, 38, 657-664. | 1.7 | 12 |
| 51 | On existence, optimality and asymptotic stability of the Kalman filter with partially observed inputs. Automatica, 2015, 53, 149-154. | 5.0 | 62 |
| 52 | Recursive filter with partial knowledge on inputs and outputs. International Journal of Automation and Computing, 2015, 12, 35-42. | 4.5 | 3 |
| 53 | Simultaneous state and input estimation with partial information on the inputs. Systems Science and Control Engineering, 2015, 3, 445-452. | 3.1 | 8 |
| 54 | High order disturbance observer design for linear and nonlinear systems. , 2015, , . | | 15 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 55 | Nonlinear state estimation with nonlinear equality constraints. , 2014, , . | | 1 |
| 56 | High-Order Mismatched Disturbance Compensation for Motion Control Systems Via a Continuous Dynamic Sliding-Mode Approach. IEEE Transactions on Industrial Informatics, 2014, 10, 604-614. | 11.3 | 233 |
| 57 | Continuous finite-time anti-disturbance control for a class of uncertain nonlinear systems. Transactions of the Institute of Measurement and Control, 2014, 36, 300-311. | 1.7 | 42 |
| 58 | Disturbance observer based fault diagnosis. , 2014, , . | | 7 |
| 59 | Continuous nonsingular terminal sliding mode control for systems with mismatched disturbances. Automatica, 2013, 49, 2287-2291. | 5.0 | 503 |
| 60 | Finite-time disturbance rejection control for robotic manipulators based on sliding mode differentiator. , 2013, , . | | 4 |