# Yi Shang

## List of Publications by Year
in descending order

| 67 papers | 1,279 citations | 933447<br>10 h-index | 752698<br>20 g-index |
|---|---|---|---|
| 67 all docs | 67 docs citations | 67 times ranked | 1245 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Wireless sensor networks in intelligent transportation systems. Wireless Communications and Mobile Computing, 2009, 9, 287-302. | 1.2 | 154 |
| 2 | MUFOLDâ€SS: New deep inceptionâ€insideâ€inception networks for protein secondary structure prediction. Proteins: Structure, Function and Bioinformatics, 2018, 86, 592-598. | 2.6 | 134 |
| 3 | A new active labeling method for deep learning. , 2014, , . | | 123 |
| 4 | Adaptive Traffic Light Control with Wireless Sensor Networks. , 2007, , . | | 87 |
| 5 | A Mobile Automated Skin Lesion Classification System. , 2011, , . | | 83 |
| 6 | MUFOLD: A new solution for protein 3D structure prediction. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1137-1152. | 2.6 | 67 |
| 7 | Modeling Physiological Data with Deep Belief Networks. International Journal of Information and Education Technology, 2013, 3, 505-511. | 1.2 | 46 |
| 8 | Performance study of localization methods for ad-hoc sensor networks. , 0, , . | | 43 |
| 9 | A Sorted RSSI Quantization Based Algorithm for Sensor Network Localization. , 0, , . | | 38 |
| 10 | DL-PRO: A novel deep learning method for protein model quality assessment. , 2014, 2014, 2071-2078. | | 38 |
| 11 | Prediction of Protein Backbone Torsion Angles Using Deep Residual Inception Neural Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 1020-1028. | 3.0 | 32 |
| 12 | Analysis of Energy Consumption in Clustered Wireless Sensor Networks. , 2007, , . | | 31 |
| 13 | Automatic Fish Classification System Using Deep Learning. , 2017, , . | | 31 |
| 14 | EvoAE -- A New Evolutionary Method for Training Autoencoders for Deep Learning Networks. , 2015, , . | | 21 |
| 15 | Improving Protein Gamma-Turn Prediction Using Inception Capsule Networks. Scientific Reports, 2018, 8, 15741. | 3.3 | 21 |
| 16 | A partial-range-aware localization algorithm for ad-hoc wireless sensor networks. , 0, , . | | 20 |
| 17 | SDNAN: Software-defined networking in ad hoc networks of smartphones. , 2013, , . | | 20 |
| 18 | New Deep Learning Methods for Protein Loop Modeling. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 16, 596-606. | 3.0 | 18 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Adaptive Saliency Biased Loss for Object Detection in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7154-7165. | 6.3 | 18 |
| 20 | Cramer-Rao Bound Analysis of Quantized RSSI Based Localization in Wireless Sensor Networks. , 0, , . | | 17 |
| 21 | An Efficient Parallel Algorithm for the Multiple Longest Common Subsequence (MLCS) Problem. , 2008, , . | | 17 |
| 22 | Protein Loop Modeling Using Deep Generative Adversarial Network. , 2017, , . | | 16 |
| 23 | MUFold-SSW: a new web server for predicting protein secondary structures, torsion angles and turns. Bioinformatics, 2020, 36, 1293-1295. | 4.1 | 14 |
| 24 | PSICA: a fast and accurate web service for protein model quality analysis. Nucleic Acids Research, 2019, 47, W443-W450. | 14.5 | 12 |
| 25 | Coverage and Energy Tradeoff in Density Control on Sensor Networks. , 0, , . | | 11 |
| 26 | Statistical methods to estimate vehicle count using traffic cameras. Multidimensional Systems and Signal Processing, 2009, 20, 121-133. | 2.6 | 11 |
| 27 | Using deep learning for alcohol consumption recognition. , 2017, , . | | 11 |
| 28 | Transformer for Tree Counting in Aerial Images. Remote Sensing, 2022, 14, 476. | 4.0 | 11 |
| 29 | Variants of Multidimensional Scaling for Node Localization. , 0, , . | | 9 |
| 30 | A multilayer evaluation approach for protein structure prediction and model quality assessment. Proteins: Structure, Function and Bioinformatics, 2011, 79, 172-184. | 2.6 | 9 |
| 31 | mAAS -- A Mobile Ambulatory Assessment System for Alcohol Craving Studies. , 2015, , . | | 9 |
| 32 | A deep dense inception network for protein beta‐turn prediction. Proteins: Structure, Function and Bioinformatics, 2020, 88, 143-151. | 2.6 | 9 |
| 33 | Distributed Faulty Sensor Detection. , 2009, , . | | 7 |
| 34 | Nest: Networked smartphones for target localization. , 2012, , . | | 7 |
| 35 | ADA - Automatic Detection of Alcohol Usage for Mobile Ambulatory Assessment. , 2016, , . | | 7 |
| 36 | Protein structural model selection based on protein-dependent scoring function. Statistics and Its Interface, 2012, 5, 109-115. | 0.3 | 7 |

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|---|---------|-----|-----------|
| 37 | A Two-Level Strategy for Topology Control in Wireless Sensor Networks. , 0, , . | | 6 |
| 38 | Model-Based Traffic Prediction Using Sensor Networks. , 2008, , . | | 6 |
| 39 | Towards a system for body-area sensing and detection of alcohol craving and mood dysregulation. , 2013, , . | | 6 |
| 40 | Deep Networks and Continuous Distributed Representation of Protein Sequences for Protein Quality Assessment. , 2017, , . | | 6 |
| 41 | Two New Heuristic Methods for Protein Model Quality Assessment. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 17, 1-1. | 3.0 | 5 |
| 42 | A new clustering-based method for protein structure selection. , 2008, , . | | 4 |
| 43 | Network-aware positioning in sensor networks. , 0, , . | | 3 |
| 44 | A New Hybrid Wireless Sensor Network Localization System. , 0, , . | | 3 |
| 45 | NEW MDS AND CLUSTERING BASED ALGORITHMS FOR PROTEIN MODEL QUALITY ASSESSMENT AND SELECTION. International Journal on Artificial Intelligence Tools, 2013, 22, 1360006. | 1.0 | 3 |
| 46 | New Deep Neural Networks for Protein Model Evaluation. , 2017, , . | | 3 |
| 47 | A New Approach Of Applying Deep Learning To Protein Model Quality Assessment. , 2019, , . | | 3 |
| 48 | MUfoldQA_G: High-accuracy protein model QA via retraining and transformation. Computational and Structural Biotechnology Journal, 2021, 19, 6282-6290. | 4.1 | 3 |
| 49 | Student modeling with timed assessment information. , 0, , . | | 2 |
| 50 | A map-growing localization algorithm for ad-hoc wireless sensor networks. , 0, , . | | 2 |
| 51 | Map-based Adaptive Positioning in Wireless Sensor Networks. , 2007, , . | | 2 |
| 52 | Cobra: Correlation-Based Content Authentication in Wireless Sensor Networks. , 2008, , . | | 2 |
| 53 | Video Based Real-World Remote Target Tracking on Smartphones. , 2012, , . | | 2 |
| 54 | Wake IQ: Using a smartphone to reduce sleep inertia. , 2013, , . | | 2 |

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|---|---------|----|-----------|
| 55 | Short Paper: TigerAware Assistant: A New Serverless Implementation of Conversational Agents for Customizable Surveys on Smart Devices. , 2019, , . | | 2 |
| 56 | A new density control algorithm for WSNs [wireless sensor networks]. , 0, , . | | 1 |
| 57 | Sensor Network Assisted Collaboration for Pursuit-Evasion Problem. , 0, , . | | 1 |
| 58 | An Efficient Algorithm for Constructing Connected Dominating Set in Ad Hoc Networks. , 2007, , . | | 1 |
| 59 | The Cell Research Trends of Asthma: A Stem Frequency Analysis of the Literature. Journal of Healthcare Engineering, 2018, 2018, 1-10. | 1.9 | 1 |
| 60 | A Fast Algorithm for Low-Resolution Protein Structure Prediction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , . | 0.5 | 1 |
| 61 | Delay-sensitive delivery of scalable coded images over peer-to-peer networks. , 0, , . | | 0 |
| 62 | Optimal Access Point Placement for Target Localization Along Trails. , 2007, , . | | 0 |
| 63 | Minimizing Location Uncertainty in Deployment of Access Points. , 2007, , . | | 0 |
| 64 | Distributed distribution-based optimization for sensor fault detection. , 2009, , . | | 0 |
| 65 | A Hybrid Consensus and Clustering Method for Protein Structure Selection. , 2011, , . | | 0 |
| 66 | Mobile Data Collection and Analysis in Conservation. , 2016, , . | | 0 |
| 67 | Comparison of Probabilistic Chain Graphical Model-Based and Gaussian Process-Based Observation Selections for Wireless Sensor Scheduling. International Journal of Distributed Sensor Networks, 2011, 7, 928958. | 2.2 | 0 |