

Shinn-Ying Ho

List of Publications by Year in descending order

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122
papers

4,165
citations

94269

37
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133063

59
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124
all docs

124
docs citations

124
times ranked

4543
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Intelligent Evolutionary Algorithms for Large Parameter Optimization Problems. IEEE Transactions on Evolutionary Computation, 2004, 8, 522-541. | 7.5 | 219 |
| 2 | OPSO: Orthogonal Particle Swarm Optimization and Its Application to Task Assignment Problems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 288-298. | 3.4 | 183 |
| 3 | Computational identification of ubiquitylation sites from protein sequences. BMC Bioinformatics, 2008, 9, 310. | 1.2 | 163 |
| 4 | iPTREE-STAB: interpretable decision tree based method for predicting protein stability changes upon mutations. Bioinformatics, 2007, 23, 1292-1293. | 1.8 | 145 |
| 5 | SODOCK: Swarm optimization for highly flexible proteinâ€“ligand docking. Journal of Computational Chemistry, 2007, 28, 612-623. | 1.5 | 120 |
| 6 | NeurphologyJ: An automatic neuronal morphology quantification method and its application in pharmacological discovery. BMC Bioinformatics, 2011, 12, 230. | 1.2 | 113 |
| 7 | Accurate modeling and prediction of surface roughness by computer vision in turning operations using an adaptive neuro-fuzzy inference system. International Journal of Machine Tools and Manufacture, 2002, 42, 1441-1446. | 6.2 | 111 |
| 8 | ProLoc-GO: Utilizing informative Gene Ontology terms for sequence-based prediction of protein subcellular localization. BMC Bioinformatics, 2008, 9, 80. | 1.2 | 101 |
| 9 | POPI: predicting immunogenicity of MHC class I binding peptides by mining informative physicochemical properties. Bioinformatics, 2007, 23, 942-949. | 1.8 | 96 |
| 10 | Identifying a miRNA signature for predicting the stage of breast cancer. Scientific Reports, 2018, 8, 16138. | 1.6 | 92 |
| 11 | Increased risk of glomerulonephritis and chronic kidney disease in relation to the severity of psoriasis, concomitant medication, and comorbidity: a nationwide population-based cohort study. British Journal of Dermatology, 2015, 173, 146-154. | 1.4 | 87 |
| 12 | Increased Risk of Chronic Kidney Disease in Rheumatoid Arthritis Associated with Cardiovascular Complications â€“ A National Population-Based Cohort Study. PLoS ONE, 2015, 10, e0136508. | 1.1 | 83 |
| 13 | sRNAMap: genomic maps for small non-coding RNAs, their regulators and their targets in microbial genomes. Nucleic Acids Research, 2009, 37, D150-D154. | 6.5 | 81 |
| 14 | POPISK: T-cell reactivity prediction using support vector machines and string kernels. BMC Bioinformatics, 2011, 12, 446. | 1.2 | 79 |
| 15 | SCMCRY: Predicting Protein Crystallization Using an Ensemble Scoring Card Method with Estimating Propensity Scores of P-Collocated Amino Acid Pairs. PLoS ONE, 2013, 8, e72368. | 1.1 | 74 |
| 16 | Inheritable Genetic Algorithm for Biobjective 0/1 Combinatorial Optimization Problems and its Applications. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 609-620. | 5.5 | 72 |
| 17 | Design of an optimal nearest neighbor classifier using an intelligent genetic algorithm. Pattern Recognition Letters, 2002, 23, 1495-1503. | 2.6 | 70 |
| 18 | Accurate estimation of surface roughness from texture features of the surface image using an adaptive neuro-fuzzy inference system. Precision Engineering, 2005, 29, 95-100. | 1.8 | 65 |

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|----|--|-----|-----------|
| 19 | ProLoc: Prediction of protein subnuclear localization using SVM with automatic selection from physicochemical composition features. <i>BioSystems</i> , 2007, 90, 573-581. | 0.9 | 64 |
| 20 | Optimizing fuzzy neural networks for tuning PID controllers using an orthogonal simulated annealing algorithm OSA. <i>IEEE Transactions on Fuzzy Systems</i> , 2006, 14, 421-434. | 6.5 | 63 |
| 21 | Design of Accurate Classifiers With a Compact Fuzzy-Rule Base Using an Evolutionary Scatter Partition of Feature Space. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004, 34, 1031-1044. | 5.5 | 61 |
| 22 | Identifying the miRNA signature associated with survival time in patients with lung adenocarcinoma using miRNA expression profiles. <i>Scientific Reports</i> , 2017, 7, 7507. | 1.6 | 60 |
| 23 | An efficient evolutionary algorithm for accurate polygonal approximation. <i>Pattern Recognition</i> , 2001, 34, 2305-2317. | 5.1 | 59 |
| 24 | Co-expression analysis identifies long noncoding RNA <i>SNHG1</i> as a novel predictor for event-free survival in neuroblastoma. <i>Oncotarget</i> , 2016, 7, 58022-58037. | 0.8 | 59 |
| 25 | A novel approach to production planning of flexible manufacturing systems using an efficient multi-objective genetic algorithm. <i>International Journal of Machine Tools and Manufacture</i> , 2005, 45, 949-957. | 6.2 | 58 |
| 26 | Increased Risk of Major Depression in the Three Years following a Femoral Neck Fracture—A National Population-Based Follow-Up Study. <i>PLoS ONE</i> , 2014, 9, e89867. | 1.1 | 55 |
| 27 | Prediction and analysis of protein solubility using a novel scoring card method with dipeptide composition. <i>BMC Bioinformatics</i> , 2012, 13, S3. | 1.2 | 52 |
| 28 | OSA: Orthogonal Simulated Annealing Algorithm and Its Application to Designing Mixed H_2/H_∞ Optimal Controllers. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2004, 34, 588-600. | 3.4 | 50 |
| 29 | An Intelligent Two-Stage Evolutionary Algorithm for Dynamic Pathway Identification From Gene Expression Profiles. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2007, 4, 648-704. | 1.9 | 50 |
| 30 | Interpretable gene expression classifier with an accurate and compact fuzzy rule base for microarray data analysis. <i>BioSystems</i> , 2006, 85, 165-176. | 0.9 | 48 |
| 31 | Accurate prediction of enzyme subfamily class using an adaptive fuzzy k-nearest neighbor method. <i>BioSystems</i> , 2007, 90, 405-413. | 0.9 | 48 |
| 32 | Enterotype-based Analysis of Gut Microbiota along the Conventional Adenoma-Carcinoma Colorectal Cancer Pathway. <i>Scientific Reports</i> , 2019, 9, 10923. | 1.6 | 46 |
| 33 | A Novel Intelligent Multiobjective Simulated Annealing Algorithm for Designing Robust PID Controllers. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2008, 38, 319-330. | 3.4 | 45 |
| 34 | Design of accurate predictors for DNA-binding sites in proteins using hybrid SVM-PSSM method. <i>BioSystems</i> , 2007, 90, 234-241. | 0.9 | 43 |
| 35 | Predicting and analyzing DNA-binding domains using a systematic approach to identifying a set of informative physicochemical and biochemical properties. <i>BMC Bioinformatics</i> , 2011, 12, S47. | 1.2 | 42 |
| 36 | Bronchial asthma is associated with increased risk of chronic kidney disease. <i>BMC Pulmonary Medicine</i> , 2014, 14, 80. | 0.8 | 42 |

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|----|---|-----|-----------|
| 37 | PredCRP: predicting and analysing the regulatory roles of CRP from its binding sites in Escherichia coli. Scientific Reports, 2018, 8, 951. | 1.6 | 41 |
| 38 | Association between Gastroenterological Malignancy and Diabetes Mellitus and Anti-Diabetic Therapy: A Nationwide, Population-Based Cohort Study. PLoS ONE, 2015, 10, e0125421. | 1.1 | 40 |
| 39 | Is schizophrenia associated with an increased risk of chronic kidney disease? A nationwide matched-cohort study. BMJ Open, 2015, 5, e006777-e006777. | 0.8 | 40 |
| 40 | Novel miRNA signature for predicting the stage of hepatocellular carcinoma. Scientific Reports, 2020, 10, 14452. | 1.6 | 40 |
| 41 | Designing structure-specified mixed H/sub 2//H/sub /spl infin// optimal controllers using an intelligent genetic algorithm IGA. IEEE Transactions on Control Systems Technology, 2005, 13, 1119-1124. | 3.2 | 38 |
| 42 | ESA-UbiSite: accurate prediction of human ubiquitination sites by identifying a set of effective negatives. Bioinformatics, 2017, 33, 661-668. | 1.8 | 37 |
| 43 | Estimating survival time of patients with glioblastoma multiforme and characterization of the identified microRNA signatures. BMC Genomics, 2016, 17, 1022. | 1.2 | 36 |
| 44 | Protein subcellular localization prediction of eukaryotes using a knowledge-based approach. BMC Bioinformatics, 2009, 10, S8. | 1.2 | 35 |
| 45 | Predicting protein subnuclear localization using GO-amino-acid composition features. BioSystems, 2009, 98, 73-79. | 0.9 | 34 |
| 46 | Computer vision for robust 3D aircraft recognition with fast library search. Pattern Recognition, 1991, 24, 375-390. | 5.1 | 33 |
| 47 | Design of nearest neighbor classifiers: multi-objective approach. International Journal of Approximate Reasoning, 2005, 40, 3-22. | 1.9 | 32 |
| 48 | Selecting a minimal number of relevant genes from microarray data to design accurate tissue classifiers. BioSystems, 2007, 90, 78-86. | 0.9 | 31 |
| 49 | Tourette Syndrome as an Independent Risk Factor for Subsequent Sleep Disorders in Children: A Nationwide Population-Based Caseâ€“Control Study. Sleep, 2017, 40, . | 0.6 | 31 |
| 50 | An orthogonal simulated annealing algorithm for large floorplanning problems. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2004, 12, 874-877. | 2.1 | 30 |
| 51 | An analytic solution for the pose determination of human faces from a monocular image. Pattern Recognition Letters, 1998, 19, 1045-1054. | 2.6 | 29 |
| 52 | Sequence analysis and rule development of predicting protein stability change upon mutation using decision tree model. Journal of Molecular Modeling, 2007, 13, 879-890. | 0.8 | 29 |
| 53 | Improving protein secondary structure prediction based on short subsequences with local structure similarity. BMC Genomics, 2010, 11, S4. | 1.2 | 29 |
| 54 | Endoscopic Images by a Single-Shot Multibox Detector for the Identification of Early Cancerous Lesions in the Esophagus: A Pilot Study. Cancers, 2021, 13, 321. | 1.7 | 29 |

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|----|---|-----|-----------|
| 55 | Facial modeling from an uncalibrated face image using a coarse-to-fine genetic algorithm. <i>Pattern Recognition</i> , 2001, 34, 1015-1031. | 5.1 | 28 |
| 56 | Prediction of protein mutant stability using classification and regression tool. <i>Biophysical Chemistry</i> , 2007, 125, 462-470. | 1.5 | 28 |
| 57 | SCMHBP: prediction and analysis of heme binding proteins using propensity scores of dipeptides. <i>BMC Bioinformatics</i> , 2014, 15, S4. | 1.2 | 26 |
| 58 | Is Zolpidem Associated with Increased Risk of Fractures in the Elderly with Sleep Disorders? A Nationwide Case Cross-Over Study in Taiwan. <i>PLoS ONE</i> , 2015, 10, e0146030. | 1.1 | 26 |
| 59 | Protein-Protein Interaction Site Predictions with Three-Dimensional Probability Distributions of Interacting Atoms on Protein Surfaces. <i>PLoS ONE</i> , 2012, 7, e37706. | 1.1 | 25 |
| 60 | Identification and characterization of the lncRNA signature associated with overall survival in patients with neuroblastoma. <i>Scientific Reports</i> , 2019, 9, 5125. | 1.6 | 24 |
| 61 | Prediction and Analysis of Antibody Amyloidogenesis from Sequences. <i>PLoS ONE</i> , 2013, 8, e53235. | 1.1 | 23 |
| 62 | SCMMTP: identifying and characterizing membrane transport proteins using propensity scores of dipeptides. <i>BMC Genomics</i> , 2015, 16, S6. | 1.2 | 22 |
| 63 | Discovery of prognostic biomarkers for predicting lung cancer metastasis using microarray and survival data. <i>BMC Bioinformatics</i> , 2015, 16, S4. | 1.2 | 21 |
| 64 | Evolutionary Learning-Derived Clinical-Radiomic Models for Predicting Early Recurrence of Hepatocellular Carcinoma after Resection. <i>Liver Cancer</i> , 2021, 10, 572-582. | 4.2 | 21 |
| 65 | SCMPSP: Prediction and characterization of photosynthetic proteins based on a scoring card method. <i>BMC Bioinformatics</i> , 2015, 16, S8. | 1.2 | 19 |
| 66 | Design and Analysis of an Efficient Evolutionary Image Segmentation Algorithm. <i>Journal of Signal Processing Systems</i> , 2003, 35, 29-42. | 1.0 | 18 |
| 67 | Knowledge acquisition and development of accurate rules for predicting protein stability changes. <i>Computational Biology and Chemistry</i> , 2006, 30, 408-415. | 1.1 | 18 |
| 68 | Mesh optimization for surface approximation using an efficient coarse-to-fine evolutionary algorithm. <i>Pattern Recognition</i> , 2003, 36, 1065-1081. | 5.1 | 17 |
| 69 | High-risk, Expression-Based Prognostic Long Noncoding RNA Signature in Neuroblastoma. <i>JNCI Cancer Spectrum</i> , 2018, 2, pky015. | 1.4 | 17 |
| 70 | HCS-Neurons: identifying phenotypic changes in multi-neuron images upon drug treatments of high-content screening. <i>BMC Bioinformatics</i> , 2013, 14, S12. | 1.2 | 16 |
| 71 | Angiotensin Receptor Blockers Decrease the Risk of Major Adverse Cardiovascular Events in Patients with End-Stage Renal Disease on Maintenance Dialysis: A Nationwide Matched-Cohort Study. <i>PLoS ONE</i> , 2015, 10, e0140633. | 1.1 | 16 |
| 72 | Characterizing informative sequence descriptors and predicting binding affinities of heterodimeric protein complexes. <i>BMC Bioinformatics</i> , 2015, 16, S14. | 1.2 | 15 |

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|----|--|-----|-----------|
| 73 | GREMA: modelling of emulated gene regulatory networks with confidence levels based on evolutionary intelligence to cope with the underdetermined problem. <i>Bioinformatics</i> , 2020, 36, 3833-3840. | 1.8 | 15 |
| 74 | A Novel Orthogonal Simulated Annealing Algorithm for Optimization of Electromagnetic Problems. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1791-1795. | 1.2 | 14 |
| 75 | EEG-based motion sickness classification system with genetic feature selection. , 2013, , . | | 14 |
| 76 | Increased risk of major depression subsequent to a first-attack and non-infection caused urticaria in adolescence: a nationwide population-based study. <i>BMC Pediatrics</i> , 2014, 14, 181. | 0.7 | 13 |
| 77 | Identification of the miRNA signature associated with survival in patients with ovarian cancer. <i>Aging</i> , 2021, 13, 12660-12690. | 1.4 | 13 |
| 78 | Increased risk of epilepsy in children with Tourette syndrome: A population-based case-control study. <i>Research in Developmental Disabilities</i> , 2016, 51-52, 181-187. | 1.2 | 11 |
| 79 | Landscape of Mitochondria Genome and Clinical Outcomes in Stage 1 Lung Adenocarcinoma. <i>Cancers</i> , 2020, 12, 755. | 1.7 | 11 |
| 80 | Incremental model building of polyhedral objects using structured light. <i>Pattern Recognition</i> , 1993, 26, 33-46. | 5.1 | 10 |
| 81 | Prediction of non-classical secreted proteins using informative physicochemical properties. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2010, 2, 263-270. | 2.2 | 10 |
| 82 | GeNOSA: inferring and experimentally supporting quantitative gene regulatory networks in prokaryotes. <i>Bioinformatics</i> , 2015, 31, 2151-2158. | 1.8 | 10 |
| 83 | SCMBYK: prediction and characterization of bacterial tyrosine-kinases based on propensity scores of dipeptides. <i>BMC Bioinformatics</i> , 2016, 17, 514. | 1.2 | 10 |
| 84 | MicroRNA signature for estimating the survival time in patients with bladder urothelial carcinoma. <i>Scientific Reports</i> , 2022, 12, 4141. | 1.6 | 10 |
| 85 | Measuring 3-D location and shape parameters of cylinders by a spatial encoding technique. <i>IEEE Transactions on Automation Science and Engineering</i> , 1994, 10, 632-647. | 2.4 | 9 |
| 86 | Motion sickness estimation system. , 2012, , . | | 9 |
| 87 | Prediction of linear B-cell epitopes of hepatitis C virus for vaccine development. <i>BMC Medical Genomics</i> , 2015, 8, S3. | 0.7 | 9 |
| 88 | Increased risks of tic disorders in children with epilepsy: A nation-wide population-based case-control study in Taiwan. <i>Research in Developmental Disabilities</i> , 2016, 51-52, 173-180. | 1.2 | 9 |
| 89 | Predicting the Risk Genes of Autism Spectrum Disorders. <i>Frontiers in Genetics</i> , 2021, 12, 665469. | 1.1 | 8 |
| 90 | Predicting Neuroinflammation in Morphine Tolerance for Tolerance Therapy from Immunostaining Images of Rat Spinal Cord. <i>PLoS ONE</i> , 2015, 10, e0139806. | 1.1 | 7 |

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|-----|--|-----|-----------|
| 91 | Recognition of handwritten Lanna Dhamma characters using a set of optimally designed moment features. International Journal on Document Analysis and Recognition, 2017, 20, 259-274. | 2.7 | 7 |
| 92 | Recognition-based character segmentation for multi-level writing style. International Journal on Document Analysis and Recognition, 2018, 21, 21-39. | 2.7 | 7 |
| 93 | The Impact of Emergency Interventions and Patient Characteristics on the Risk of Heart Failure in Patients with Nontraumatic OHCA. Emergency Medicine International, 2019, 2019, 1-10. | 0.3 | 7 |
| 94 | A hydrophobic spine stabilizes a surface-exposed α -helix according to analysis of the solvent-accessible surface area. BMC Bioinformatics, 2016, 17, 503. | 1.2 | 6 |
| 95 | Brachytherapy Approach Using ^{177}Lu Conjugated Gold Nanostars and Evaluation of Biodistribution, Tumor Retention, Dosimetry and Therapeutic Efficacy in Head and Neck Tumor Model. Pharmaceutics, 2021, 13, 1903. | 2.0 | 6 |
| 96 | Tracking the amino acid changes of spike proteins across diverse host species of severe acute respiratory syndrome coronavirus 2. IScience, 2022, 25, 103560. | 1.9 | 5 |
| 97 | Identification and Characterization of Species-Specific Severe Acute Respiratory Syndrome Coronavirus 2 Physicochemical Properties. Journal of Proteome Research, 2021, 20, 2942-2952. | 1.8 | 4 |
| 98 | Design of an optimal nearest neighbor classifier using an intelligent genetic algorithm. , 0, , . | | 4 |
| 99 | An effective search approach to camera parameter estimation using an arbitrary planar calibration object. Pattern Recognition, 1993, 26, 655-666. | 5.1 | 3 |
| 100 | Designing an efficient fuzzy classifier using an intelligent genetic algorithm. , 0, , . | | 3 |
| 101 | Mesh optimization for surface approximation using an efficient coarse-to-fine evolutionary algorithm. , 0, , . | | 3 |
| 102 | Predicting protein crystallization using a simple scoring card method. , 2013, , . | | 3 |
| 103 | Prediction of Metastasis in Head and Neck Cancer from Computed Tomography Images. , 2018, , . | | 3 |
| 104 | A GA-based systematic reasoning approach for solving traveling salesman problems using an orthogonal array crossover. , 2000, , . | | 2 |
| 105 | ProLoc-rGO: Using rule-based knowledge with Gene Ontology terms for prediction of protein subnuclear localization. , 2008, , . | | 2 |
| 106 | Rule-Based Knowledge Acquisition Method for Promoter Prediction in Human and Drosophila Species. Scientific World Journal, The, 2014, 2014, 1-14. | 0.8 | 2 |
| 107 | Heterophilic antibodies influence immunometric assay: a case report and reviews. Immunologic Research, 2020, 68, 104-106. | 1.3 | 2 |
| 108 | Design of high performance fuzzy controllers using flexible parameterized membership functions and intelligent genetic algorithms. , 0, , . | | 1 |

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|-----|--|-----|-----------|
| 109 | Genetic algorithm with intelligent crossover for colour quantization. <i>Imaging Science Journal</i> , 2003, 51, 151-162. | 0.2 | 1 |
| 110 | Flexible protein-ligand docking using particle swarm optimization. , 0, , . | | 1 |
| 111 | Designing predictors of halophilic and non-halophilic proteins using support vector machines. , 2013, , . | | 1 |
| 112 | Predicting and Analyzing Lipid-Binding Proteins Using an Efficient Physicochemical Property Mining Method. <i>Applied Mechanics and Materials</i> , 2013, 421, 313-318. | 0.2 | 1 |
| 113 | SPIKES: Identification of physicochemical properties of spike proteins across diverse host species of SARS-CoV-2. <i>STAR Protocols</i> , 2022, 3, 101460. | 0.5 | 1 |
| 114 | Efficient image segmentation using a generic and non-parametric approach. , 2000, , . | | 0 |
| 115 | Boosting Evolutionary Support Vector Machine for Designing Tumor Classifiers from Microarray Data. , 2007, , . | | 0 |
| 116 | Predicting non-classical secretory proteins by using Gene Ontology terms and physicochemical properties. , 2011, , . | | 0 |
| 117 | Identification and Analysis of Single- and Multiple-Region Mitotic Protein Complexes by Grouping Gene Ontology Terms. <i>Applied Mechanics and Materials</i> , 2013, 421, 277-285. | 0.2 | 0 |
| 118 | Statistical analysis and classification of EEG-based attention network task using optimized feature selection. , 2014, , . | | 0 |
| 119 | Clinical treatment and medication in decreasing the development of major depression caused by spinal fracture. <i>Journal of International Medical Research</i> , 2020, 48, 030006052097288. | 0.4 | 0 |
| 120 | Predicting Television Ratings and Its Application to Taiwan Cable TV Channels. , 0, , . | | 0 |
| 121 | FRKAS: Knowledge Acquisition Using a Fuzzy Rule Base Approach to Insight of DNA-Binding Domains/Proteins. <i>Protein and Peptide Letters</i> , 2013, 20, 299-308. | 0.4 | 0 |
| 122 | An Efficient Sampling Method for Television Ratings and its Application to Taiwan Cable TV Channels. <i>Journal of Applied Sciences</i> , 2013, 13, 2602-2605. | 0.1 | 0 |