

## Publications

### 1. 2 Monographs, 2 edited Books and 5 Proceedings

1. V. Raghavan, S. Rueger, T. Yamaguchi, and Y.-Q. Zhang (eds.), “**Proceedings of the 2013 IEEE/WIC/ACM International Conference on Web Intelligence**,” IEEE, 2013.
2. I. Mandoiu, G. Narasimhan and Y.-Q. Zhang (eds.), “**Proceedings of 5th International Symposium on Bioinformatics Research and Applications (ISBRA 2009)**,” ISBN 978-3-642-01550-2, Springer Berlin / Heidelberg, 2009.
3. Y.-Q. Zhang and Jagath C Rajapakse (eds.), **Machine Learning in Bioinformatics**, Wiley Book Series on Bioinformatics: Computational Techniques and Engineering, John Wiley & Sons, 2008.
4. J. Y. Yang, M. Q. Yang, M. M. Zhu, Y.-Q. Zhang, H. R. Arabnia, Y.P. Deng and N. Bourbakis, “**Proceedings of IEEE 7th International Conference on Bioinformatics and BioEngineering**,” ISBN 1-4244-1509-8, IEEE, 2007.
5. Y.-Q. Zhang and T.Y. Lin (eds.), “**Proceedings of the 2006 IEEE International Conference on Granular Computing**,” ISBN 0-7803-9017-2, IEEE, 2006.
6. H.B. Wang, F. Smarandache, Y.-Q. Zhang and R. Sunderraman, **Interval Neutrosophic Sets and Logic: Theory and Applications in Computing**, *Neutrosophic Book Series*, no. 5, HEXIS, 2005.
7. W.-R. Zhang, Y.-Q. Zhang and X.H. T. Hu (eds.), “**Proceedings of the 2005 IEEE ICDM Multiagent Data Warehousing and Multiagent Data Mining Workshop**,” ISBN 0-9738918-0-7, 2005.
8. Y.-Q. Zhang, A. Kandel, T.Y. Lin and Y.Y. Yao (eds.), **Computational Web Intelligence: Intelligent Technology for Web Application**, Series in Machine Perception and Artificial Intelligence, volume 58, World Scientific, 2004.
9. Y.-Q. Zhang and A. Kandel, **Compensatory Genetic Fuzzy Neural Networks and Their Applications**, Series in Machine Perception Artificial Intelligence, volume 30, World Scientific, 1998.

### 2. 81 Journal Papers

1. T. K. B. Mudiyansele and Y.-Q. Zhang, “Graph based Feature Selection for Structured High Dimensional Data,” *Big Data Mining and Analytics*, 2019.
2. J. Islam, and Y.-Q. Zhang, “Brain MRI Analysis for Alzheimer's Disease Diagnosis Using an Ensemble System of Deep Convolutional Neural Networks,” *Brain Informatics*, volume 5, issue 2, 2018.
3. S. Jain, B. Duncan, Y.-Q. Zhang, N. Zhong and Z. Ding, “Real-Time Social Network Data Mining for Predicting the Path for a Disaster,” *Journal of Advances in Information Technology*, vol. 7, no. 2, pp. 81-87, May 2016.
4. L. M. Zhang and Y.-Q. Zhang, “The Human-Inspired Algorithm: A Hybrid Nature-Inspired Approach to Optimizing Continuous Functions with Constraints,” *Journal of Computational Intelligence and Electronic Systems*, volume 2, no. 1, pp. 80-87, June 2013.
5. L. M. Zhang, K. Li, C.-T. D. Lo, and Y.-Q. Zhang, “Energy-Efficient Task Scheduling Algorithms on Heterogeneous Computers with Continuous and Discrete Speeds,” *Sustainable Computing: Informatics and Systems*, volume 3, issue 2, pp. 109-118, June 2013.
6. A. Chida, R. W. Harrison and Y.-Q. Zhang, “Enhanced Encoding with Improved Fuzzy Decision Tree Testing Using CASP Templates”, Special Issue on Bioinformatics, *IEEE Computational Intelligence Magazine*, vol. 8, no. 4, pp. 55-60, 2012.
7. P. Phoungphol, Y.-Q. Zhang and Y. Zhao, “Robust Multiclass Classification for Learning from Imbalanced Biomedical Data,” Special Issue on Bioinformatics and Computational Biology, *Tsinghua Science and Technology Journal*, vol. 17, no. 6, pp. 619-628, 2012.
8. G. Shen and Y.-Q. Zhang, “An Evolutionary Linear Programming Algorithm for Solving the Stock Reduction Problem,” *International Journal of Computer Applications in Technology*, vol. 44, no. 3, pp. 171-179, 2012.

9. G. Shen and Y.-Q. Zhang, "Shadow Price Based Genetic Algorithms for the Cutting Stock Problem," *International Journal of Artificial Intelligence and Soft Computing*, vol. 3, no. 1, pp. 50-69, 2012.
10. K. Qian, C.-T. D. Lo, M. Guo, Y. Pan, Y.-Q. Zhang, X. Hu, and L. Hong, "Android-based Hands-on Labware for Computing Education," *Computer Education*, vol. 11, pp. 72-75, June 2012.
11. Brent Hafner and Y.-Q. Zhang, "Cloud Computing with Green Virtual Systems," *International Journal of Emerging Technology and Advanced Engineering*, vol. 2, no. 3, March 2012.
12. W.R. Zhang, A.K. Pandurangi, K.E. Peace, Y.-Q. Zhang, Z. Zhao, "MentalSquares – a generic bipolar support vector machine for mental disorder classification, diagnostic analysis, and neurobiological data mining," *International Journal of Data Mining and Bioinformatics*, vol. 5, no. 5, pp. 532-557, 2011.
13. Y.Q. Chen, Y.-Q. Zhang, H. Hu, H. Ling, "A Novel Gray Image Watermarking Scheme," *Journal of Software*, vol. 6, no. 5, pp. 849-856, May 2011.
14. Z.J. Ding, Y.-Q. Zhang, and Y.C. Zhao, "Data Shuffling and Statistical Analysis on Microarray Data for Gene Selection—A Comparative Study on Filtering Methods," *International Journal of Functional Informatics and Personalised Medicine*, vol. 3, no. 3, pp. 183-203, 2010.
15. A. Reyaz-Ahmed, R. W. Harrison and Y.-Q. Zhang, "Protein Model Assessment via Machine Learning Techniques," *International Journal of Functional Informatics and Personalised Medicine*, vol. 3, no. 3, pp. 215-227, 2010.
16. G. Shen and Y.-Q. Zhang, "A new evolutionary algorithm using shadow price guided operators," *Applied Soft Computing*, vol. 11, no. 2, pp. 1983-1992, 2010.
17. Z.J. Ding, Y. Feng, Y. G. Zheng, and Y.-Q. Zhang, "Protein Methylation Prediction Using Granular Decision Fusion Methods," *International Journal of Soft Computing and Bioinformatics*, vol. 1, no.1, pp. 19-27, 2010.
18. N. Hiremath and Y.-Q. Zhang, "A granular hardware/software system: pervasive distributed dynamic sensor data mining system for effective commerce," *International Journal of Granular Computing, Rough Sets and Intelligent Systems*, vol. 1, no.3, pp. 252-271, 2010.
19. Y.C. Tang, Y.-Q. Zhang, N. V. Chawla, and S. Krasser, "SVMs Modeling for Highly Imbalanced Classification," *IEEE Transactions on Systems, Man, and Cybernetics - Part B*, vol. 39, no. 1, pp. 281-288, Feb. 2009.
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21. B. Jin, Y.C. Tang and Y.-Q. Zhang, "Hybrid SVM-ANFIS for protein subcellular location prediction," *International Journal of Computational Intelligence in Bioinformatics and Systems Biology*, vol. 1, no. 1, pp. 59-73, 2009.
22. Y.-Q. Zhang and Y. Pan, "Incomplete Crossed Hypercubes," *Journal of Supercomputing*, v.49, n.3, p.318-333, September 2009.
23. A. Reyaz-Ahmed, Y.-Q. Zhang, and R. W. Harrison, "Granular Decision Tree and Evolutionary Neural SVM for Protein Secondary Structure Prediction," *International Journal of Computational Intelligence Systems*, vol. 2, n. 2, p.343-352, Dec. 2009.
24. Y. Chen and Y.-Q. Zhang, "A Personalized Query Suggestion Agent based on Query Concept Bipartite Graphs and Concept Relation Trees," the Special Issue on Intelligent Techniques for Personalization and Recommendation, *the International Journal of Advanced Intelligence Paradigms*, vol. 1, no. 4 pp. 398-417, 2009.
25. L. Lu and Y.-Q. Zhang, "Distributed Fuzzy Mobile Agents for e-Commerce," *International Journal of Computational Intelligence Research*, vol. 5, no. 2, pp. 108-115, 2009.
26. Y.C. Tang, Y.-Q. Zhang, Z. Huang, X.H. T. Hu, and Y. Zhao, "Recursive Fuzzy Granulation for Gene Subsets Extraction and Cancer Classification," *IEEE Transactions on Information Technology in Biomedicine*, vol. 12, no. 6, pp. 723-730, Nov. 2008.
27. Y.-Q. Zhang, B. Jin and Y.C. Tang, "Granular Neural Networks with Evolutionary Interval

- Learning,” *IEEE Transactions on Fuzzy Systems*, Special Section on Granular Computing, vol. 16, no. 2, pp. 309-319, April 2008.
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  29. Minyong Li, Nanting Ni, Binghe Wang and Y.-Q. Zhang, “Modeling the Excitation Wavelengths ( $\lambda_{ex}$ ) of Boronic Acids,” *Journal of Molecular Modeling*, vol. 14, no. 6, pp. 441-449, 2008.
  30. W.R. Zhang, J. Zhan, P.P. Wang and Y.-Q. Zhang, “On Truth, Uncertainty, Equilibrium and Harmony – a Taxonomy for YinYang Scientific Computing,” *New Mathematics and Natural Computation*, vol. 4, no. 2, pp. 207-229, July 2008.
  31. X.J. Chen, Y. Li, R. Harrison and Y.-Q. Zhang, “Type-2 Fuzzy logic-based Classifier Fusion for Support Vector Machines,” *Applied Soft Computing*, vol. 8, no. 3, pp. 1222-1231, June 2008.
  32. Y. Qiu, H. Yang, Y.-Q. Zhang and Y.C. Zhao, “Polynomial Regression Interval-valued Fuzzy Systems,” *Soft Computing - A Fusion of Foundations, Methodologies and Applications*, vol. 12, no. 2, pp. 137-145, Jan. 2008.
  33. F. Tan, X.Z. Fu, Y.-Q. Zhang and A. Bourgeois, “A Genetic Algorithm-based Feature Subset Selection,” *Soft Computing - A Fusion of Foundations, Methodologies and Applications*, vol. 12, no. 2, pp. 111-120, Jan. 2008.
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  38. L. Gu and Y.-Q. Zhang, “Web Shopping Expert Systems Using New Interval Type 2 Fuzzy Reasoning,” Special Issue on Web Intelligence and Chance Discovery, *Soft Computing - A Fusion of Foundations, Methodologies and Applications*, vol. 11, no. 8, pp. 741-751, June 2007.
  39. B. Jin, Y.C. Tang and Y.-Q. Zhang, “Support Vector Machines with Genetic Fuzzy Feature Transformation for Biomedical Data Classification,” Special Issue on Advances in Fuzzy Logic, *Information Sciences*, vol. 177, no. 2, pp. 476-489, 2007.
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  41. H.B. Wang, F. Smarandache, Y.-Q. Zhang and R. Sunderraman, “Interval Neutrosophic Logic,” *Advances in Fuzzy Sets and Systems*, vol. 1, no. 3, pp. 187-218, Oct. 2006.
  42. B. Jin and Y.-Q. Zhang, “Evolutionary Construction of Granular Kernel Trees for Cyclooxygenase-2 Inhibitor Activity Comparison,” *LNCS Transactions on Computational Systems Biology*, vol. V, pp. 25-35, 2006.
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  45. Y.-Q. Zhang, “Constructive Granular Systems with Universal Approximation and Fast Knowledge Discovery,” *IEEE Transactions on Fuzzy Systems*, vol. 13, no. 1, pp. 48-57, Feb. 2005.

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### 3. 20 Book Chapters

1. Y. Lu, and Y.-Q. Zhang, "Privacy Preserving Multiclass Classification for Horizontally Distributed Data," *Biostatistics and Bioinformatics*, Springer, 2019.
2. Y.-Q. Zhang, "Granular Neural Networks," *Encyclopedia of Complexity & System Science*, Robert Meyers (ed.), (updated in 2018), Springer, 2009.
3. H. Wang, F. Smarandache, Y.-Q. Zhang, R. Sunderraman, "Interval Neutrosophic Logic," *Neutrosophic Theory and Its Application: Collected Papers I*, Europa Nova, Brussels, 2014.
4. G. Shen and Y.-Q. Zhang, "Power Consumption Constrained Task Scheduling Using Enhanced Genetic Algorithms," *Evolutionary based Solutions for Green Computing*, in the "Studies in Computational Intelligence" series, Samee U. Khan Joanna Kolodziej Juan Li, and Albert Y.

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5. A. Chida, R. W. Harrison and Y.-Q. Zhang, "PROTEIN TERTIARY MODEL ASSESSMENT," *Algorithmic and AI Methods for Protein Bioinformatics*, Y. Pan, J. Wang and M. Li (eds.), Wiley Book Series on Bioinformatics: Computational Techniques and Engineering, John Wiley & Sons, 2012.
  6. Z.J. Ding and Y.-Q. Zhang, "Review of Imbalanced Data Learning for Protein Methylation Prediction," *Algorithmic and AI Methods for Protein Bioinformatics*, Y. Pan, J. Wang and M. Li (eds.), Wiley Book Series on Bioinformatics: Computational Techniques and Engineering, John Wiley & Sons, 2012.
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#### 4. 186 Conference/Workshop Papers

1. R. B. Manyam and Y.-Q. Zhang, "Deep Learning approach for predicting 30 day readmissions after Coronary Artery Bypass Graft Surgery," Workshop on Machine Learning for Health at the 32<sup>nd</sup> Annual Conference on Neural Information Processing Systems (NeurIPS 2018), Montreal, Dec. 8, 2018.
2. J. Islam and Y.-Q. Zhang, "Towards Robust Lung Segmentation in Chest Radiographs with Deep Learning," Workshop on Machine Learning for Health at the 32<sup>nd</sup> Annual Conference on Neural Information Processing Systems (NeurIPS 2018), Montreal, Dec. 8, 2018.
3. J. Islam and Y.-Q. Zhang, "Brain MRI Analysis for Alzheimer's Disease Diagnosis Using an Ensemble System of Deep Convolutional Neural Networks," the 2018 International Conference on Brain Informatics (BI 2018), Arlington, Dec. 7-9, 2018.
4. Y. Lu, M. Yan, M. Han, Q. Yang, and Y.-Q. Zhang, "Privacy Preserving Multiclass Classification for Horizontally Distributed Data," The 19th Annual Conference on Information Technology Education, Fort Lauderdale, Oct. 3-6, 2018.
5. S. T. Sadasivuni and Y.-Q. Zhang, "Online Mental Illness Detection Based on Continual Tweets Using Decision Trees," the First Conference on Machine Learning in Science and Engineering, Pittsburgh, June 6-8, 2018.
6. J. Islam and Y.-Q. Zhang, "Early Diagnosis of Alzheimer's Disease: A Neuroimaging Study with Deep Learning Architectures," the 4th Women in Computer Vision (WiCV) Workshop, Salt Lake City, June 22, 2018.
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8. J. Islam, and Y.-Q. Zhang, "An Ensemble of Deep Convolutional Neural Networks for Alzheimer's Disease Detection and Classification," Workshop on Machine Learning for Health (ML4H2017) with the Thirty-first Annual Conference on Neural Information Processing Systems (NIPS2017), Long Beach, Dec. 8, 2017.
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11. L. Ma, Z. Wang, and Y.-Q. Zhang, "Extracting Depression Symptoms from Social Networks and Web Blogs via Text Mining," the 13th International Symposium on Bioinformatics Research and Applications (ISBRA 2017), pp. 325-330, Honolulu, May 29-June 2, 2017.
12. J. Islam and Y.-Q. Zhang, "Visual Sentiment Analysis for Social Images Using Transfer Learning Approach," The 6th IEEE International Conference on Big Data and Cloud Computing (BDCloud 2016), pp. 124-130, Atlanta, Oct. 8-10, 2016.
13. Z. Wang, L. Ma, and Y.-Q. Zhang, "A Novel Method for Document Summarization Using Word2Vec," 15th IEEE International Conference on Cognitive Informatics & Cognitive Computing, pp. 523-529, Stanford, Aug. 22-23, 2016.
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