Curriculum Vita

Name： Jie Sun

Current position： Professor

Research interest： Enterprise financial distress prediction; Enterprise credit evaluation; Accounting information system; Artificial intelligence for financial management.

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The brief introduction：

Jie Sun is a professor and doctoral supervisor of Accounting School, Tianjin University of Finance and Economics. She has the doctor's degree of management and is Chinese Certified Public Accountant (Non-Professional Member). She was elected into the University Discipline Leading Talents Training Plan of Tianjin city, the first level of Tianjin 131 Innovative Talents Training Project, Five-Star Young Teacher of Zhejiang Province, and Zhijiang Young Social Science Scholar of Zhejiang Province. She was invited as guest professor of Dongguk University, Korea during June to September 2012. She has presided over three research projects of the National Natural Science Foundation and four research projects of provincial and ministerial level. She has published more than fifty papers, among which, one paper is ESI hot paper, two paper is ESI highly cited, more than 40 papers are indexed by SSCI/SCI, and eight papers are indexed by EI. Her achievements in research and education work have been honored with four provincial and

ministerial awards and more than ten scientific research awards of bureau level. By December 2020, her published papers have been cited by other researchers for 687 times in the database of Social Sciences Citation Index (SSCI) and Science Citation Index Expanded (SCI-EXPANDED) of Web of Science. Her H-index in Web of Science database is 26, and her RG Score in Research Gate website is 30.44, ranked as the 12.5% among all the global researchers registered in this website.

Education:

2004-2007 PhD in Technological Economy and Management (full-time), Management School, Harbin Institute of Technology

2002-2004 Master in Accounting (full-time), Management School, Harbin Institute of Technology

1998-2002 Bachelor in Accounting (full-time), Management School, Harbin Institute of Technology

Employment:

2016—Now Professor, Accounting School, Tianjin University of Finance and Economics, China

2008 — 2013 Associate professor, School of Economics and Management, Zhejiang Normal University, China

2007—2008 Lecturer, School of Economics and Management, Zhejiang Normal University, China

Research achievement:

Main publications:

1. Multi-class financial distress prediction based on support vector machines integrated with the decomposition and fusion methods.

Information Sciences. 2021, 559.
2. Class-imbalanced dynamic financial distress prediction based on Adaboost-SVM ensemble combined with SMOTE and time weighting. Information Fusion. 2020, 54. (SSCI/SCI/EI, ESI hot paper, ESI highly cited)
3. Dynamic prediction of relative financial distress based on imbalanced data stream: from the view of one industry. Risk Management. 2019, 21. (SSCI)
4. Imbalanced enterprise credit evaluation with DTE-SBD: Decision tree ensemble based on SMOTE and bagging with differentiated sampling rates. Information Sciences. 2018, 425. (SSCI/SCI/EI, ESI highly cited)
5. Dynamic financial distress prediction with concept drift based on time weighting combined with Adaboost support vector machine ensemble. Knowledge-Based Systems. 2017, 120. (SSCI/SCI/EI)
6. The dynamic financial distress prediction method of EBW-VSTW-SVM. Enterprise Information Systems. 2016, 10(6). (SSCI/SCI/EI)
7. Combining B&B-based hybrid feature selection and the imbalance-oriented multiple-classifier ensemble for imbalanced credit risk assessment. Technological and Economic Development of Economy. 2015, 21(3). (SSCI)
8. Dynamic credit scoring using B & B withincremental-SVM-ensemble. Kybernetes. 2015, 44(4). (SSCI)
9. Imbalance-oriented SVM methods for financial distress prediction: a comparative study among the new SB-SVM-ensemble method and traditional methods. Journal of the Operational Research Society. 2014, 65(12). (SSCI)
10. Predicting financial distress and corporate failure: A review from the state-of-the-art definitions, modeling, sampling, and featuring

approaches. Knowledge-Based Systems. 2014, 5. (SSCI/SCI/EI)

11. Integration of batch weighted method with classifiers combination to solve financial distress prediction concept drift. 7th International Joint Conference on Computational Sciences and Optimization. 2014.7.4-2014.7.6. (EI)
12. Sensitivity of decision tree algorithm to class-imbalanced bank credit risk early warning. 7th International Joint Conference on Computational Sciences and Optimization. 2014.7.4-2014.7.6. (EI)
13. Concept drift oriented adaptive and dynamic support vector machine ensemble with time window in corporate financial risk prediction. IEEE Transactions on Systems, Man and Cybernetics – Part A: Systems. 2013, 43(4). (SSCI/SCI/EI)
14. AdaBoost and Bagging ensemble approaches with neural network as base learner for financial distress prediction of Chinese construction and real estate companies. Recent Patents on Computer Science. 2013, 6(1). (EI)
15. Forecasting business failure using two-stage ensemble ofmultivariate discriminant analysis and logistic regression. Expert Systems. 2013, 30(5). (SSCI/SCI/EI)
16. Predicting business failure using an RSF-based case-basedreasoning ensemble forecasting method. Journal of Forecasting. 2013, 32(2). (SSCI)
17. Multiple proportion case-basing driven CBRE and its application in the evaluation of possible failure of firms, International Journal of Systems Science, 2013, 44(8): 1409~1425. (SCI/EI)
18. Financial distress prediction using support vector machines: Ensemble vs. individual. Applied Soft Computing. 2012, 12(8). (SSCI/SCI/EI)
19. Integration of random sample selection, support vector machine and ensemble for financial risk forecasting with an empirical analysis on

the necessity of feature selection. Intelligent Systems in Accounting, Finance and Management. 2012, 19(4).

20. Forecasting business failure: The use of nearest-neighbour support vectors and correctingimbalanced samples – Evidence from the Chinese hotel industry. Tourism Management. 2012, 33(3). (SSCI)
21. Dynamic financial distress prediction using instance selection for the disposal of concept drift. Expert Systems with Applications. 2011, 38(3). (SSCI/SCI/EI)
22. SFFS-PC-NN optimized by genetic algorithm for dynamic prediction of financial distress with longitudinal data streams. Knowledge-Based Systems. 2011, 24(7). (SCI/EI)
23. AdaBoost ensemble for financial distress prediction: An empirical comparison with data from Chinese listed companies. Expert Systems with Applications. 2011, 38(8). (SSCI/SCI/EI)
24. Principal component case-based reasoning ensemble for business failure prediction. Information & Management. 2011, 48(6). (SCI/EI)
25. Hybridizing principles of TOPSIS with case-based reasoning for business failure prediction. Computers & Operations Research, 2011, 38(2). (SCI/EI)
26. Forecasting business failure in China using case-based reasoning with hybrid case representation. Journal of Forecasting. 2010, 29(5). (SSCI/EI)
27. Financial distress early warning based on group decision making. Computers & Operations Research. 2009, 36(3). (SSCI/SCI/EI)
28. Financial distress prediction based on serial combination of multiple classifiers. Expert Systems with Applications. 2009, 36(4). (SSCI/SCI/EI)
29. Multiple classifiers hybrid combination for companies'; financial distress prediction. System Engineering Theory and Practice. 2009,

29(2). (EI)

30. Hybridizing principles of the Electre method with case-based reasoning for data mining: Electre-CBR-I and Electre-CBR-II. European Journal of Operational Research. 2009, 197(1). (SCI/EI)
31. Gaussian case-based reasoning for business failure prediction with empirical data in China. Information Sciences. 2009, 179(1-2). (SSCI/SCI/EI)
32. Data mining method for listed companies' financial distress prediction. Knowledge-Based Systems. 2008, 21(1). (SCI/EI)
33. Listed companies' financial distress prediction based on weighted majority voting combination of multiple classifiers. Expert Systems with Applications. 2008, 35(3). (SCI/EI)
34. Financial distress prediction based on similarity weighted voting CBR. Lecture Notes in Computer Science. 2006, 4093. (SCI/EI)

RESEARCH GRANTS

- Multi-SVM Ensemble Modeling for Multi-Class Imbalanced Enterprise Credit Evaluation. the *National Natural Science Foundation of China*, Grand No. 7177010840, 2018.01-2021.12.
- Enterprise credit scoring modelling based on multi-SVM dynamic ensemble for class-imbalanced incremental data batches. the *National Natural Science Foundation of China*, Grand No. 71371171, 2014.01-2017.12.
- Dynamic modelling of financial distress prediction based on longitudinal and hyrizontal data stream with concept drift, the

National Natural Science Foundation of China, Grand No. 70801054, 2009.01-2011.12, Principal Investigator.

- Multi-SVM dynamic ensemble method for enterprise credit scoring based on time-weighted instance selection. the *Humanities and Social Science Foundation of Ministry of Education*, Grand No. 13YJC630140 , 2013.1-2016.1.
- Class-imbalanced financial distress prediction based on multi-SVM ensemble. the *Zhejiang Provincial Natural Science Foundation of China*, Grand No. LY13G010001. 2013.1-2015.12.
- Bank credit decision modelling based on support vector machine incremental learning, the *Zhejiang Provincial Natural Science Foundation of China*, Grand No. Y6090392, 2010.01-2011.12.
- Stock index dynamic prediction approach based on rolling time window support vector regression and empirical research, the *Zhejiang Provincial Philosophy and Social Science Foundation of China*, Grand No. 11ZJQN082YB, 2012.1-2014.6.

Teaching:

Accounting Information System; Computer Financial Management; Accounting principle