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Education

- PhD, Computer Science and Information Engineering, National Chiao Tung University, 1996/1
- MS, Computer and Information Science, National Chiao Tung University, 1991/6

Academic Experience

- Associate Professor, Department of Information Management, Southern Taiwan University, 2000/8 to present
- Associate Professor, Department of Finance, Southern Taiwan University, 1996/2 to 2000/7

Journal Papers

1. C. C. Chen, Using Association Rules to Find Adaptive Courses for Students, Information & Management Science, vol. 13, no. 2, pp. 86-98, 2020/12. (in Chinese)
2. C. C. Chen, Using Clustering Method with Products-Centric to Find Adaptive Consumers, Information & Management Science, vol. 12, no. 2, pp. 19-28, 2019/12. (in Chinese)
3. C. C. Chen and Z. X. Yu, Using Clustering Technology to Find Consumers' Adaptive Products, Journal of Chihlee Institute of Technology, vol. 39, pp. 245-263, 2019/11. (in Chinese)
4. C. C. Chen, Finding Library Readers' Adaptive Books Based on Association Rules, Information & Management Science, vol. 11, no. 2, pp. 4-18, 2018/12. (in Chinese)
5. C. C. Chen, A High Efficient Apriori Algorithm of Mining Association Rules, Information & Management Science, vol. 10, no. 2, pp. 21-29, 2017/12. (in Chinese)
6. C. C. Chen, Using Clustering Techniques with Weighted Symptoms to Find Diagnosed Diseases for Patients, Information & Management Science, vol. 8, no. 2, pp. 12-30, 2015/12. (in Chinese)
7. C. C. Chen and X. H. Chen, Using Association Rules of Weighted Symptoms to Build Mining System of Disease Diagnosis for Patients, Journal of Engineering Technology and Education, vol. 9, no. 4, pp. 479-488, 2012/12. (in Chinese)
8. C. C. Chen, Improving the Efficiency of Mining Association Rules by Reducing the Amount of Scanning Transaction Data, Journal of Engineering Technology and Education, vol. 8, no. 4, pp. 568-578, 2012/2. (in Chinese)
9. C. C. Chen, Improving the Efficiency of Mining Association Rules by Reducing the Amount of Candidate Itemsets, Kaohsiung Normal University Journal, no. 31, pp. 57-69, 2011/12. (in Chinese)
10. C. C. Chen, "Using Clustering Techniques to Build Mining System of Disease Diagnosis for Patients, Journal of Computer Science and Application, vol. 7, no. 2, pp. 41-50, 2011/12. (in Chinese)
11. C. C. Chen, "Improving the Efficiency of Mining Frequent Itemsets by Reducing the Amount of Scanning Transaction Data, Journal of Computer Science and Application, vol. 7, no. 1, pp. 29-37, 2011/6. (in Chinese)
12. C. C. Chen, "Improving the Efficiency of Mining Association Rules Algorithms by Transaction Reduction," Journal of Information Management-Concepts, Systems, and Applications, vol. 12, no. 2, pp. 133-147, 2010/12. (in Chinese)
13. C. C. Chen, "Using Data Mining to Detect Fraud Bidders in Online Auction," Journal of Computer Science and Application, vol. 6, no. 2, pp. 81-94, 2010/12. (in Chinese)
14. C. C. Chen and C. Y. Chen, "Using Association Rules to Construct Website Recommendations of

- Query Keywords," Kaohsiung Normal University Journal, no. 28, pp. 45-60, 2010/6. (in Chinese)
15. C. C. Chen, "An Application of Association Rules in Detection of Careless Diagnoses of Diseases," *Fu Jen Management Review*, vol. 17, no. 1, pp. 121-142, 2010/1. (in Chinese)
 16. C. C. Chen and C. Y. Chen, "An Efficient Improved Apriori Algorithm for Mining Association Rules," *Journal of Computer Science and Application*, vol. 5, no. 2, pp. 71-85, 2009/12. (in Chinese)
 17. C. C. Chen and C. Y. Chen, "Using Data Mining Techniques to Find Personalized Book Recommendations for Library," *Journal of Computer Science and Application*, vol. 5, no. 1, pp. 95-110, 2009/6. (in Chinese)
 18. C. C. Chen, "High Efficient Algorithms for Mining Frequent Itemsets," *Kaohsiung Normal University Journal*, no. 26, pp. 43-60, 2009/6. (in Chinese)
 19. C. C. Chen and C. Y. Chen, "Using Data Mining Techniques to Detect Incorrect Diagnoses of Diseases," *Kaohsiung Normal University Journal*, no. 25, pp. 47-64, 2008/12. (in Chinese)
 20. C. C. Chen, "Fast Algorithms for Mining Association Rules," *Journal of Computer Science and Application*, vol. 4, no. 2, pp. 87-103, 2008/12. (in Chinese)
 21. C. C. Chen, "Using Association Rules to Find Adaptive Book Recommendations for the Reader," *Bulletin of Library and Information Science*, no. 65, pp. 55-74, 2008/5. (in Chinese)
 22. C. C. Chen, "Using Mining Techniques with Weighted Interest-Items to Find Adaptive Marketing Strategy," *Chaoyang Business and Management Review*, vol. 7, no. 1, pp. 47-68, 2008/1. (in Chinese)
 23. C. C. Chen, "Using Classification Analysis to Find Consumers' Most Adaptive Product Items," *Fu Jen Management Review*, vol. 15, no. 1, pp. 17-42, 2008/1. (in Chinese)
 24. C. C. Chen, "Using Classification Analysis to Find the Most Adaptive Itemsets of Products," *Journal of Computer Science and Application*, vol. 3, no. 2, pp. 79-100, 2007/12. (in Chinese)
 25. C. C. Chen, "Using Mining Techniques with Weighted Interest-Items to Find Adaptive Recommendations of Borrowing Books," *Kaohsiung Normal University Journal*, no. 23, pp. 53-76, 2007/12. (in Chinese)
 26. C. C. Chen, "Using Association Rules to Find the Most Adaptive Borrowing Strategies of Book Recommendations," *Journal of E-Business*, vol. 9, no. 3, pp. 555-576, 2007/9. (in Chinese)

Conference Papers

1. C. C. Chen, Y. K. Lu, H. L. Huang and Z. Y. Chen, Using Weighted Association Rules with Purchase Sequences to Find Consumers' Adaptive Products, *Academic Conference on Management and Innovation*, 2021/3/12. (in Chinese)
2. C. C. Chen, J. H. Lin and Z. Y. Chen, Finding Consumers' Adaptive Products Based on Clustering Technology, *2020 Chinese Society for Management of Technology Conference*, 2020//12/10~2020//12/11. (in Chinese)
3. C. C. Chen and Z. Y. Chen, Improve the Execution Efficiency of Apriori Algorithm for Mining Association Rules, *2020 Taiwan Academic Network Conference*, 2020//10/28~2020//10/30. (in Chinese)
4. C. C. Chen, H. L. Huang and Z. Y. Chen, Finding Adaptive Courses for Students Based on Association Rules, *2020 The 7th Huashan Conference on Education*, 2020/5/2. (in Chinese)
5. C. C. Chen, J. H. Lin, T. Y. Chen and D. L. Wu, Use Clustering Technology to Analyze Patient Symptoms and Disease Tendency, *The 55th Annual Conference of Chinese Society for Quality, and 2019 International Symposium of Quality Management (ISQM)*, 2019/11/2. (in Chinese)
6. C. C. Chen, J. H. Lin, Z. Y. Xu and D. L. Wu, Use Clustering Technology to Detect Abnormal Diagnosis Tendency of Patients with Diseases, *2019 Southeast Asia business management & Cultural Creativity Practice Seminar*, 2019/9/26. (in Chinese)
7. C. C. Chen and Z. X. Yu, Using Clustering Technology to Find Consumers' Adaptive Products, *2019 Conference on Commerce Technology and Management, Taiwan (R.O.C.)*, 2019/5/17. (in Chinese)
8. C. C. Chen, J. H. Lin and T. Y. Chen, Using Weighted Clustering to Find Adaptive Consumers of

Products, 2018 Annual Conference of the Chinese Society for Management of Technology, Taiwan (R.O.C.), 2018/11/29~2018/11/30. (in Chinese)

9. C. C. Chen, G. M. Guo, J. H. Lin and Z. X. Yu, Finding Library Readers' Adaptive Books Based on Association Rules, The 20th China Management Science Academic Conference, China (P.R.C), 2018/11/30~2018/12/3. (in Simplified Chinese)
10. C. C. Chen, J. H. Lin, M. C. Shen and J. P. Lee, Using Big Data Analytical Techniques to Find Consumers' Sequence Tourist Attractions, The 2017 Conference on STUST Department of Leisure, Recreation, and Tourism Management-New Southward Policy, Taiwan (R.O.C.), 2017/10/28. (in Chinese)
11. C. C. Chen, F. X. Qiu, B. Y. Zhang and Y. C. Weng, Using Association Rules Find Library Readers' Adaptive Books, 2016 Information Management & Practice Conference (IMP 2016), Taiwan (R.O.C.), 2016/12/10. (in Chinese).
12. C. C. Chen, B. Y. Zhang and Y. C. Weng, Using Mining Techniques to Detect Fraud Bid on Internet Auction, 2016 Industrial Management and Information Application Innovations Conference, Taiwan (R.O.C.), 2016/11/28. (in Chinese).
13. C. C. Chen, M. C. Shen, T. Y. Chen, C. N. Chen and J. Q. Ren, Using Clustering Techniques to Find Consumers Groups of Tourism Spots, , The 2016 Conference on STUST Department of Leisure, Recreation, and Tourism Management, Taiwan (R.O.C.), 2016/10/29. (in Chinese)
14. C. C. Chen, M. C. Shen, H. L. Huang and B. Y. Zhang, Using Classification Analysis to Find the Adaptive Readers of Tourism Books, The 2016 Conference on STUST Department of Leisure, Recreation, and Tourism Management, Taiwan (R.O.C.), 2016/10/29. (in Chinese)
15. C. C. Chen, T. Y. Chen, H. L. Huang and D. L. Wu, Using, Using Data Mining Techniques to Check Careless Diagnosis for Diseases, The 2015 International Conference on "Humanities and Information - Globalization, Localization and Innovation", Taiwan (R.O.C.), 2015/12/3. (in Chinese)
16. C. C. Chen, T. Y. Chen, C. N. Chen and K. X. Chang, Using Association Rules with Weighted Items to Plan Adaptive Recommendations of Books by Readers' Borrowing Interest, The 2015 International Conference on "Humanities and Information - Globalization, Localization and Innovation", Taiwan (R.O.C.), 2015/12/3. (in Chinese)
17. C. C. Chen, M. C. Shen, C. N. Chen and Z. Y. Xu, Using Association Rules to Find Websites Recommendations of Querying Spot Keywords, The 2015 Conference on STUST Department of Leisure, Recreation, and Tourism Management, Taiwan (R.O.C.), 2015/11/28. (in Chinese)
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19. C. C. Chen, H. L. Huang, D. L. Wu and T. Y. Chen, Using, High Performance Apriori for Mining Association Rules, Ubiquitous-Home Conference 2014 (UHC2014), Tainan, Taiwan (R.O.C.), 2014/11/28. (in Chinese)
20. C. C. Chen, H. L. Huang, Z. J. Huang and T. Y. Chen, Using Mining Techniques to Detect Fraud Bidders of Auction Goods, 2014 Industrial Management and Information Application Innovations Conference, Yunlin County, Taiwan (R.O.C.), 2014/11/4. (in Chinese)
21. C. C. Chen, H. L. Huang, T. Y. Chen and Z. J. Huang, Using Clustering by Weighted Symptoms to Find Diagnoses Diseases for Patients, 2014 Industrial Management and Information Application Innovations Conference, Yunlin County, Taiwan (R.O.C.), 2014/11/4. (in Chinese)
22. C. C. Chen, H. L. Huang, C. N. Chen and W. D. Tsai, Using Clustering with Interesting Weight to Find Consumers' Adaptive Products, 2013 The 9th Conference on Theories and Practices in International Business, Tainan, Taiwan (R.O.C.), 2013/11/22. (in Chinese)
23. C. C. Chen, H. L. Huang, C. N. Chen and F. J. Hong, Using Clustering Methods to Find the Adaptive Readers of Books in Library, 2013 Asia Pacific International Conference on Small &Medium Enterprise Innovation, Yunlin County, Taiwan (R.O.C.), 2013/11/5. (in Chinese)

Patents

1. C. C. Chen, et al., Group-buying Method Offering Different Discount Intervals, 2019/02/11~2036/05/26, Taiwan patent no. I650720.
2. C. C. Chen, et al., Method of Determining Bid Winner in On-line Auction by Automatically Raising Bids, 2019/01/11~2036/06/06, Taiwan patent no. I647640.
3. C. C. Chen, C. C. Jen, T. Y. Hsu, G. M. Guo, Gesture and Handwriting Input Method and System, 2018/11/01~2036/07/13, Taiwan patent no. I639932.
4. C. C. Chen, H. L. Huang, G. M. Guo, Trade Method, System and Computer Program Product for Auctioning Merchandise Set at Fixed Price, 2018/01/11~2034/11/24, Taiwan patent no. I611360
5. C. C. Chen, H. L. Huang, G. M. Guo, Method, System, Computer Program and Computer-Readable Recording Medium for Random Type Auction, 2017/10/21~2033/11/28, Taiwan patent no. I603277.
6. C. C. Chen, H. L. Huang, G. M. Guo, A Group Buying System and a Group Buying Method, 2017/01/21~2035/11/10, Taiwan patent no. I567677.
7. C. C. Chen, G. M. Guo, C. F. Yu, Method of Marketing Mining and System of the Same, 2017/01/21~2033/03/07, Taiwan patent no. I567573.
8. C. C. Chen, H. L. Huang, G. M. Guo, F. C. Hung, Y. S. Chang, T. Y. Wang, Y. R. Wang, . Method, System, And Computer Program Product of Barter Auction with Valuation Grading, 2016/01/01~2034/02/20, Taiwan patent no. I515678.
9. C. C. Chen, H. L. Huang, G. M. Guo, System, Computer Program Product and Computer Readable Recording Medium for Online Auction, 2016/01/01~ 2033/11/27, Taiwan patent no. I515682.
10. C. C. Chen, C. L. Liu, T. Y. Hsu, H. L. Hsu, C. T. Chen, G. M. Guo, Wireless Microphone with Air Mouse, 2015/12/11~2025/09/07, Taiwan patent no. M514043.
11. C. C. Chen, H. L. Huang, G. M. Guo, Disease Diagnosis Auxiliary System Considering Symptom Weighting and Grouping Diagnosis Data, 2015/08/11~2025/05/31, Taiwan patent no. M506578.
12. C. C. Chen, H. L. Huang, G. M. Guo, Patient Disease Diagnosis and Exploration System, 2014/05/21~2023/11/28, Taiwan patent no. M478423.