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### Education

- PhD, Department of Computer Science, University of Oklahoma, 1994/6
- Master, Department of Computer Science, University of Oklahoma, 1991/6
- BA, Department of Computer Engineer, University of Tatung, 1986/6

### Area of Specialty

- Database management
- Big Data analysis
- Data mining
- Data warehousing
- Data Visualization Analysis
- Mobile Data mining
- Web content mining
- Text mining

### Academic Experience

- Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2009/1 to present
- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 1994/8 to 2009/7

### Publications

1. Ridha Maya Faza Lubis, Jen-Peng Huang, Pai-Chou Wang, Kiki Khoifin, Yuli Elvina, Dyah Ayu Kusumaningtyas, Agglomerative Hierarchical Clustering (AHC) Method for Data Mining Sales Product Clustering, Building of Informatics, Technology and Science (BITS), Volume 5, No 1, June 2023 Page: 285–294
2. Ridha Maya Faza Lubis, Jen-Peng Huang, Mula Sigiuro, Joel Panjaitan, Grouping Biopharmaceutical Plants in Indonesia Using the K-Means Algorithm: Application of Data Mining in Production, Building of Informatics, Technology and Science (BITS) Volume 4, No 4, Maret 2023 Page: 1933–1940

### Journal Papers

1. Ridha Maya Faza Lubis, Jen-Peng Huang, Pai-Chou Wang, Kiki Khoifin, Yuli Elvina, Dyah Ayu Kusumaningtyas, Agglomerative Hierarchical Clustering (AHC) Method for Data Mining Sales Product Clustering, Building of Informatics, Technology and Science (BITS), 5(1), 2023
2. Ridha Maya Faza Lubis, Jen-Peng Huang, Pai-Chou Wang, Kiki Khoifin, Mula Sigiuro, Joel Panjaitan, Data Clustering Mining Applying the K-Means Algorithm, Cervical Cancer Behavior Risk, JURNAL MEDIA INFORMATIKA BUDIDARMA, 7(2), 2023
3. Ridha Maya Faza Lubis, Jen-Peng Huang, Mula Sigiuro, Joel Panjaitan, Grouping Biopharmaceutical Plants in Indonesia Using the K-Means Algorithm: Application of Data Mining in Production, Building of Informatics, Technology and Science (BITS), 4(4), 1933-1940, 2023
4. Theera Prompreing, Kattareeya Prompreing, Genesis Sembiring Depari, Jen-peng Huang,

- Dynamic parameters and algorithm in predicting bank telemarketing success, *International Journal of Business Information Systems*, 40(3), 399-414, 2022
5. Tri Noviantoro, Jen-Peng Huang. COMPARING MACHINE LEARNING ALGORITHMS TO INVESTIGATE COMPANY FINANCIAL DISTRESS. *Review of Business, Accounting, & Finance* , 1(5), 454-479. 2021.
  6. Tri Noviantoro, Jen-Peng Huang, Investigating airline passenger satisfaction: Data mining method, *Research in Transportation Business & Management*, Volume 43, June 2022.
  7. Genesis Sembiring Depari, Jen-Peng Huang, MARKETING MIX AND REPURCHASE INTENTION OF CAFE INDUSTRY DURING COVID-19: A STATISTICAL AND DATA MINING ANALYSIS, *JURNAL MINDS Manajemen Ide dan Inspirasi* 8(2), 209-224, August 2021.
  8. Jen-Peng Huang, Genesis Sembiring Depari, Improving social media engagements on paid and non-paid advertisements: a data mining approach, *International Journal of Data Analysis Techniques and Strategies*, 13(1/2), pp88-106, 2021.
  9. Jen-peng Huang, Mining Correlation Patterns of Frequent Traversal Paths and High Utility Itemsets, *Journal of STUST: Engineering Science Editon*, 6(1), pp37-51, 2021.
  10. Tri Noviantoro, Jen-Peng Huang, APPLYING DATA MINING TECHNIQUES TO INVESTIGATE ONLINE SHOPPER PURCHASE INTENTION BASED ON CLICKSTREAM DATA, *The Review of Business, Accounting & Finance (RBAF) (ISSN: 2635-0688)*, 1(2) ,pp130-159, 2021
  11. Jen-Peng Huang, Genesis Sembiring Depari, Forecasting Bitcoin Return: A Data Mining Approach. *Review of Integrative Business and Economics Research*, Vol. 10(1), 51-68, 2021. (ProQuest; EconLit; Google Scholar; Directory of Research Journal Indexing.)
  12. Jen-peng Huang, Genesis Sembiring Depari, Pai-Chou Wang, LEVERAGING SOCIAL MEDIA METRICS IN IMPROVING SOCIAL MEDIA PERFORMANCES THROUGH ORGANIC REACH: A DATA MINING APPROACH, *Review of Economic and Business Studies*, Vol. 11(2),33-48, 2018.
  13. Jen-Peng Huang, Genesis Sembiring Depari, Paid Advertisement on Facebook: An Evaluation Using a Data Mining Approach, *Review of Integrative Business and Economics Research*, Vol. 8(4), 1-16, 2019. (EconLit; Google Scholar; Directory of Research Journal Indexing. ISSN: 2304-1013 (Online); 2304-1269 (CD); 2414-6722 (Print)), 2019.
  14. Kuan-Yeh Tung, Jen-peng Huang, Cyuan-Fong Cai, 'The Application of Data Mining in Institutional Research: A Case Study of Student's Teaching Reaction', *Journal of Education Research*, No. 280, 106-118, 2017.
  15. Jen-Peng Huang, 'DSCP:An Efficient Algorithms For Mining Consecutive Traversal Paths From Data Stream', *Electronic Commerce Studies*, 14(3), 365-388, 2016.
  16. Jen-Peng Huang, 'GSPT : A Efficient Mining Frequent Itemsets Algorithm Using Prefix Table', *Electronic Commerce Studies*, 14(2), 257-277, 2016.
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  18. Jen-Peng Huang, 'PCP: Mining Association Rules Algorithm with Positive Correlation and Closed Itemsets', *Journal of Southern Taiwan University of Science and Technology*, 40(4), 85-104, 2015
  19. Jen-peng Huang, C.Y Chang, 'Automatic Text Summarization based on Weights of Words', *Journal of Information Management*, Vol. 21, No. 4, pp. 391-416)(NSC 100-2410-H-218-003), Oct. 2014
  20. Guo-Cheng Lan, Tzung-Pei Hong, Jen-Peng Huang, Vincent S. Tseng, On-shelf utility mining with negative item values, *Expert Systems with Applications*, Vol. 41, No. 7, pp3450-3459, June 2014.
  21. Huang-Cheng Kuo, Jung-Chang Lin, Ping-Lin Ong, Jen-Peng Huang, Discovering amino acid patterns on binding sites in protein complexes, *Bioinformatics*, Vol. 6, No. 1, pp. 10-14, Mar. 2011. (ISSN 0973-2063)
  22. Jen-Peng Huang, Huang-Cheng Kuo, QDI: An Efficient Incremental Mining Algorithm, *Communications of the ICISA* Vol. 10, No. 1, pp. 17- 32, Summer, 2009.( NSC 92 - 2213 - E - 218 - 020)
  23. Jen-Peng Huang, Po-Hsuan Co, GSSA: A Gradation Sorting and Scanning Algorithm for Data Mining and Applications, *Journal of e-Business*, *Journal of e-Business*, Vol. 11, No. , Sep., 2009,

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  25. Huang-Cheng Kuo, Te-Wen Hsien, Jen-Peng Huang, Deriving Feature Vector from Biological Sequence for Filtering in Similarity Search, *Communications of the ICISA*, Vol. 8, No. 2, pp. 49-69, Sep., 2007.
  26. Jen-Peng Huang, Show-Ju Chen, Huang-Cheng Kuo, "An Efficient Incremental Mining Algorithm-QSD", *Intelligent Data Analysis*, Vol. 11 No.3, pp 265-278, June, 2007. (INSPEC, SCI) (NSC 93-2213-E-218-012)
  27. Jen-Peng Huang, Guo-Cheng Lan, An Efficient Algorithm for Mining Association Rules-EFI, *Journal of Information Management*, Vol. 14, No 2, pp. 139-168, Apr., 2007. (TSSCI)
  28. Jen-Peng Huang, Guo-Cheng Lan, An Efficient Algorithm for Mining Association Rules - GRA, *Journal of e-Business*, Vol. 8, No. 4, pp. 469-498, Dec, 2006. (TSSCI)
  29. Jen-Peng Huang, Guo-Cheng Lan, An Efficient Approach for Mining Traversal Sequential Patterns, *Journal of Technology Management*, Vol. 11, No. 4, pp. 1-36, Dec, 2006.
  30. Jen-Peng Huang, I-Pei Chien, Huang-Cheng Kuo, An Efficient Incremental Mining Algorithm-ICI, *Journal of e-Business* Vol 8, No 3, pp. 393-413, Sep, 2006. (TSSCI)
  31. Jen-Peng Huang, Nan-jie Huang, Huang-cheng Kuo, An Efficient Incremental Mining Algorithm - QPD, *Commerce & Management Quarterly*, Vol. 7, No 1 , pp. 27-57, Mar., 2006.
  32. Jen-Peng Huang, I-Pei Chien, Huang-Cheng Kuo, An Incremental mining algorithm-QDT, *Electronic Commerce Studies*, Vol. 3 No. 4, pp. 381-398, Dec., 2005.
  33. Jen-Peng Huang, Gia-Ching Lin, Huang-Cheng Kuo, "Using Voronoi cell distance to improve fuzzy Kohonen clustering networks", *Journal of Computers*. Vol. 16 No. 4, pp. 49-64, Dec., 2004.
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### Conference Papers

1. Jen-peng Huang, Yihui Li , Using machine learning methods to explore the impact of music taste and mental health status, 2023 Symposium on Global Business Operation and Management, 2023
2. Jen-peng Huang, Wei-zheng Li, Imbalanced Data Enhancement on Model Performance – Taking Google Restaurant Reviews for Example, Taiwan Academic Network Conference 2022(TANET2022), 2022.
3. Jia-fen Chen, Jen-peng Huang, Using Machine Learning Algorithms to Explore Smoking Cessation Effectiveness, International Symposium on Occupational Health and Occupational Medicine and Nursing 2022, 2022.
4. Jen-peng Huang, Rui-yang You, Emoji sentiment analysis using BERT model, ITIA 2022 International Conference on Information Technology and Industrial Applications, 2022.
5. Jen-peng Huang, Jia-yi Lian, Use Quantitative incremental classification and machine learning for sentiment analysis , TANET2021&NCS2021, 2021
6. Jen-peng Huang, Jia-yi Lian, Use incremental classification and machine learning for sentiment analysis, The E-learning and Information Technology Symposium 2021(EITS2021), pp 4, 2021
7. Jen-peng Huang, Xiu-ping Su, using data exploration techniques to explore the factors related to the trading volume of futures dealers and the weighted index of Taiwan, International Conference on Innovation Digital Design(ICIDD2020), P540-547, 2020.
8. Jen-peng Huang, Yuan-fang Xu, Data exploration and application in Tainan City real estate registration to explore the impact of housing Factors of rising prices, International Conference

on Innovation Digital Design(ICIDD2020), P178-186, 2020.

9. Jen-peng Huang, Wei-jinHong, Use crawlers to explore sentiment analysis of online shopping-take Dcard online shopping board as an example, The E-learning and Information Technology Symposium 2018(EITS2018), 2018
10. Jen-peng Huang , Jian-ming Guo , Guan-ye Tong , Tang-yao Yang , Yu-lin Zheng, Analysis and research of huge amounts of information on popular and forward-looking R&D, The E-learning and Information Technology Symposium 2018(EITS2018), 2018
11. Jen-peng Huang, Genesis Sembiring Depari, A ROBUST ALGORITHM IN PREDICTING BANK TELEMARKETING SUCCESS, THE FOURTEENTH INTERNATIONAL CONFERENCE ON KNOWLEDGE-BASED ECONOMY AND GLOBAL MANAGEMENT, November 08-09, 2018.
12. Jia-qi Xu , Jenpeng Huang, Using Internet Public Opinion to Analyze the Effectiveness of Social Marketing, 2017 International Symposium on Asian Regional Economy and Local Industrial Development, 2017.
13. Jen-Peng Huang, WEI-RU ZHOU, "Model analysis of time series trend of dengue cases Tainan", The E-learning and Information Technology Symposium 2016(EITS2016), 2016,pp 25 (ISBN:978-986-5627-14-0)
14. Jen-Peng Huang, MEI-ZHU KE , "Application of Data Mining Technology in the Education of Public Servants - A Case Study of the Demand for Courses", The E-learning and Information Technology Symposium 2016(EITS2016), 2016. (ISBN:978-986-5627-14-0)
15. Guo-Cheng Lan, Tzung-Pei Hong, Jen-Peng Huang, and I-Wei Lin, "Discovery of High Utility Sequential Patterns with Consideration of On-shelf Time Periods of Products," in Proceedings of the 31th Workshop on Combinatorial Mathematics and Computation Theory, pp. 250-255, 2014.
16. Guo-Cheng Lan, Tzung-Pei Hong, Jen-Peng Huang, Vincent S. Tseng, Mining On-shelf Utility Itemsets with Negative Item Values in Temporal Databases, The E-learning and Information Technology Symposium 2014(EITS2014), 2014,pp 44 (ISBN:978-986-6975-81-3)
17. Jen-Peng Huang, Wun-Syong Li, A Web Articles Search and Recommand System Based on CKIP and TD-IDF, The E-learning and Information Technology Symposium 2013(EITS2013),2013,pp45 (ISBN:978-986-9675-67-7)
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19. Jen-peng Huang, Sien-Tang Tsai, Ming-Yuan Hsu,Using Data Mining Techniques in Chain Store Turnover Analysis,The E-Learning and Information Technology Symposium 2013, p48, Mar. 2013. (ISBN:978-986-6975-67-7)
20. Jen-peng Huang, Chin-wei Wu, Association analysis on enrollment factors and academic performance - Southern Taiwan Vocational Senior High School as an Example, The E-Learning and Information Technology Symposium 2013, p81, Mar. 2013.) (ISBN:978-986-6975-67-7)
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22. Jen-Peng Huang, Chen-Ying Chang, Building Automatic Text Summarization on Search Engine Recommendation System Based on Association Rules Mining with Weight of Words, The 18th Conference on Information Management & Practice , 2012, pp215 (NSC 100-2410-H-218-003)
23. Jen-peng Huang, Jiun-Huei Li, Association Rules Analysis with Multiple Factors in Tourist Spots - Based on Transaction Data of Convenience Stores, The E-Learning and Information Technology Symposium 2011, pp37, Mar. 2011. (ISBN:978-986-6975-42-4)
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27. Jen-Peng Huang, Len-Chu Weng, "Mining Correlation Patterns of Consecutive Paths and High Utility Itemsets from Web Databases", The 15th Conference on Information Management & Practice, Kaohsiung, Dec., 2009.
28. Jen-Peng Huang, Hao-Chih Hsiung, Huang-Cheng Kuo, An Efficient Algorithm for Mining Hot Merchandises, 2009 INTERNATIONAL CONFERENCE ON KNOWLEDGE-BASED ECONOMY AND GLOBAL MANAGEMENT , pp 139-146, Tainan, TAIWAN, 22-23 October , 2009 ° (ISBN:978-986-6975-24-0)
29. Jen-peng Huang, Huang-Cheng Kuo, A Filtering Approach for Mining Frequent Itemsets, Conference Information: 22nd International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, JUL 24-27, 2009 Tainan, TAIWAN, Source: OPPORTUNITIES AND CHALLENGES FOR NEXT-GENERATION APPLIED INTELLIGENCE, Book Series: Studies in Computational Intelligence Volume: 214, Pages: 59-63 Published: 2009 (ISBN:978-3-540-92813-3)
30. Jen-peng Huang, Chun-fu Tseng, The Association Analysis between the big convenience store's merchandises of tourist spots and seasonal, The E-Learning and Information Technology Symposium2009,pp49, Apr. 2009
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32. Jen-peng Huang, Jing-guo Tu, Mining Consecutive Sequence Patterns Using Projected Database, Proceedings of the 5th Service management and innovation, Nov. 2008
33. Jen-peng Huang, Chien-yuan Chen, Classification based on Opportunistic Projection, Proceedings of the 5th Service management and innovation, Nov. 2008
34. Jen-Peng Huang, De-Hong Tsuei, "An Algorithm for Mining Fittingly Shortest Path from GPS Navigation Data", Proceedings of the 13th International Conference on Information Management and Practical Application, Kaohsiung, 8th, pp. 256-278, Dec., 2007.
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36. Jen-Peng Huang, Chang-En Ke, Using The Fuzzy Time Interval in Mining Traersal Patterns, Proceedings of the Second Conference on Digital Contents Management and Applications, pp. 67, June, 2007
37. Jen-Peng Huang, Kou-Chen Chang, " Finding Closed Patterns by Bi-Direction Mining in Long Biological Datasets(BDClose)", Ming Chuan University International Academic Conference 2007, pp. 49-P59, Mar. , 2007.
38. Jen-Peng Huang, Ho-Yi Chang, "An Efficient bidirectional prunes filters the mechanism to discover the Maximal frequent itemsets method", 2007 The Third International Conference on Information Management and Project Management Schedule (IMPM2007), Mar., 2007.
39. Jen-Peng Huang, Hsiang-Yi Tseng, "An Efficient Algorithm for Mining Association Rules-ICI", Ming Chuan University's 2007 International Academic Conference, department of information management, pp. 61-73, Mar, 2006.
40. Jen-Peng Huang, Jen-Zhi Yu, Je-san Huang,"Mining Association Rule With Conditional Pattern", Conference on E-commerce and Digit life 2007, (ECDL '07), pp. 1079-1096, Mar., 2007.
41. Jen-Peng Huang, Shun-Po Yang, "Mining Calendar-based Asynchronous Periodical Association Rules with Gradation Reduction Operation", The International Conference of Technology and Management (ICTM2006), pp. 40, Dec., 2006
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47. Jen-Peng Huang, Jen-Zhi Yu, "TWB : A Weighted Frequent Pattern Tree Algorithm", IMP2005, pp. 3057-3075 · Dec. 2005.
48. Huang-Cheng Kuo, Cheng-Che Wu, Tsung-Lung Lee, Jen-Peng Huang, "Clustering Analysis of Gene Expression Time Series Data," The 10th Conference on Artificial Intelligence and Applications, National Kaohsiung University, Dec., 2005.
49. Jen-Peng Huang, Chih-Nan Kao, "An Efficient Method for Mining Multi-time Interval Spatial Patterns in Multimedia Databases", The E-learning and Information Technology Symposium 2005 (EITS2005), Nov., 2005.
50. Jen-Peng Huang, Fang-Yu Chang, "A Heterology Data Mining Algorithm", The E-learning and Information Technology Symposium 2005 (EITS2005), Nov., 2005.
51. Jen-Peng Huang, Ming-Hsia Liu, "A Gradational Decomposition Algorithm for Mining Large Price Patterns", The Commercial Circulation Symposium 2005, Nov. 2005.
52. Jen-Peng Huang, Jon-jay Su, "An Algorithm for Proportionally Fault-tolerant Association Rules", The 7th Conference on Sustainable Development and Management, pp. 363-370, Nov., 2005.
53. Jen-Peng Huang, Guo-Cheng Lan, "An Efficient Algorithm for Mining Association Rules-EFI", The 7th Conference on Sustainable Development and Management, pp. 371-378, Nov., 2005.
54. Jen-Peng Huang, Chi-Lan Tsai, "A Frequent-Pattern Tree Approach with Multiple Minimum Supports", The third Conference on Commercial Circulation and Global Planning, Oct. 2005.
55. Jen-Peng Huang, Jon-jay Su, "Using Rule Patterns and Dynamic Minimum Supports to Mine Multi-level Association Rules", The third Conference on Commercial Circulation and Global Planning, Oct. 2005.
56. Jen-Peng, Guo-Cheng Lan, "An Efficient Approach for Mining the Correlation about Traversal and Purchasing", The third Conference on Commercial Circulation and Global Planning, Oct. 2005.
57. Cheng-Che Wu, Jen-Peng Huang, Huang-Cheng Kuo, "A Nearest-Neighbors Based Clustering Algorithm for Financial Time Series Data," 2005 International Conference on Accounting and Information Technology, Jan., 2005.
58. Jen-Peng Huang, Mei-Yin Chi, Huang-Cheng Kuo, "An Algorithm for Mining Surprising Periodic Pattern: SM-SP", The First Innovation and Management Symposium, pp. 206, Dec., 2004.
59. Jen-Peng Huang, Mei-Yin Chi, Huang-Cheng Kuo, "An Efficient Algorithm for Mining Location Patterns-ICILP", The 6th Conference on Sustainable Development and Management, pp575-582, Dec., 2004.
60. Jen-Peng Huang, Show-wei Lin, Huang-Cheng Kuo, "An Incremental Algorithm for Mining Association Rules for Large Database", The 6th Conference on Sustainable Development and Management, pp. 679-686, Dec., 2004.
61. Jen-Peng Huang, Hao-Chih Hsiung, Huang-Cheng Kuo, "An Association rules mining Algorithm for multiple stores — ICI\_TP", The 6th Conference on Sustainable Development and Management, pp. 537-545, Dec., 2004.
62. Jen-Peng Huang, Hao-Chih Hsiung, Mei-Yin Chi, Huang-Cheng Kuo, "A method for mining association rule without set minimum threshold — IFM", The First Innovation and Management Symposium, pp. 193, Dec., 2004.
63. Jen-Peng Huang, Show-wei Lin, Huang-Cheng Kuo, "A Web Mining Algorithm to Forecast the

- Customer Inclination for Any Structure of Website", The 10th conference on Information management Practice 2004 (IMP2004), pp. 1940-1954, Dec., 2004.
64. Jen-Peng Huang, Hao-Chih Hsiung, Huang-Cheng Kuo, "Intuitional Decomposition association rule Algorithm—IDA ", The 10th Conference on Information management and Implementation(C.S.I.M 2004), pp. 1857-1866, Dec., 2004. °
  65. The 9th conference on Artificial Intelligence and Applications, Nov. 2004.
  66. Jen-Peng Huang, Hao-Chih Hsiung, Huang-Cheng Kuo, "Intuitional Decomposition Algorithm use in multiple store — IDA\_TP", The Commercial Circulation Symposium 2004, pp. 537-548, Nov. 2004.
  67. Jen-Peng Huang, Hao-Chih Hsiung, Huang-Cheng Kuo, "Multi-time Interval sequential pattern mining base on ICI Algorithm—MI-ICI", The Second Conference on Commercial Circulation and Global Planning, pp. J-41-J-50, Oct., 2004.
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  69. Jen-Peng Huang, Jen-Zhi Yu, "Mining Weighted Association Rules Using Maximum Profit Rule", Taiwan Academic Network Conference 2004 (TANET 2004), pp. 1105-1110, Oct., 2004.
  70. Huang-Cheng Kuo, Yi-Sen Lin, Chien-Kuo Chen, Jen-Peng Huang, "Mapping Algorithms for Indexing Categorical Data", 2004 Symposium on Digital Life and Internet Technologies, June, 2004
  71. Jen-Peng Huang, Yao-wen Hsu, Huang-Cheng Kuo, "Weighted Fast Sequence Decomposition", 2004 Symposium on Electronic Business Management, June, 2004.
  72. 60. Jen-Peng Huang, I-ho Yang, "To Make A Decision using Incremental Combination Itemsets (ICI)", 2004 Symposium on Intelligent Information system, May, 2004
  73. Jen-Peng Huang, Ying-Che Kuo, Yi-Ho Yang, "Using Back Propagation Network to learning evaluations at E-learning", 2004 International Conference on Information Technology and Application, Mar. 2004.
  74. Jen-Peng Huang, Nan-jie Huang, Yao-wen Hsu, Huang-cheng Kuo, "Quick Modulized Decomposition Algorithm -QMD", Conference on E-commerce and Digit life 2004 (ECDL '04), pp. 164, Mar., 2004.

#### **Dissertation**

- Huang, Jen-peng (1994) "Analysis of Interconnection Networks Based on Cayley Graphs of Strong Generating Sets," Ph.D. Dissertation, University of Oklahoma.

#### **Books**

1. Jen-Peng Huang, Database System - Using Oracle, DrMaster Book Co, 2004. ISBN 957-527-672-8.
2. Jen-Peng Huang, Database System - Using Oracle (2nd Ed.), DrMaster Book Co,2012. ISBN 978-986-201-633-6.

#### **Professional Certifications**

1. Core knowledge of IoT development, 232200800000550, Computer Skills Foundation, 2020/08
2. Applications & Use Cases Professional Certification, RapidMiner, 2020/08
3. Data Analytics, 8862019000178, ICDL, 2020/08
4. Artificial intelligence applications and technologies, No:132190800001760, Computer Skills Foundation, 2019/08
5. Microsoft MTA Introduction to Programming using Python, Microsoft, 2018/12
6. Certiport Internet and Computing Core Certification(IC3), Living Online, Certiport, 2017/4
7. Certiport Internet and Computing Core Certification(IC3), Computing Fundamentals, Certiport, 2017/4
8. IoT Application and Technology, No: 132161200016050, Computer Skills Foundation, 2016/12

9. Professional Mobile Applications Engineer, No: 1311612000000800, Computer Skills Foundation, 2016/12
10. Cloud Technology and Internet Services, No: 132160800001620, Computer Skills Foundation, 2016/08
11. Certification of the Microsoft Technology ASSOCIATE(HTML5 Application Development Fundamentals), NO: F425-2381, Microsoft, 2015/10
12. Certification of the Microsoft Technology ASSOCIATE(Windows Operating System Fundamentals), NO: F427-0416, Microsoft, 2015/10
13. Big Data Process and Analysis, No: 431150800000050, Computer Skills Foundation, 2015/08
14. Mobile Commerce Personnel, No:131141000000110, Computer Skills Foundation, 2014/10
15. Mobile Device Application, No:132140800012290, Computer Skills Foundation, 2014/08
16. Webpage Program Design Certification, No:232130900000630, Computer Skills Foundation, 2013/09
17. E-Enterprise Planner Certification(Information Security and Law), No:431121100001450, Computer Skills Foundation, 2012/11
18. Information Technology Expert(Linux Administration IT Expert), No: 411120700008570, Computer Skills Foundation, 2012/10
19. TQC-IP Image Process-Photoshop CS4 Image Processing(Primary), Computer Skills Foundation, 2012/8
20. E-Enterprise Planner Certification(Enterprise Resource Planning), No:411120700008570, Computer Skills Foundation, 2012/7
21. E-Enterprise Planner Certification(Business Strategy Planning), No: 411120200000390, Computer Skills Foundation, 2012/2
22. Android 2 Application Programming Certification, NO: SPGD111200006, Computer Skills Foundation, 2011/12
23. E-Enterprise Planner Certification(Internet Marketing), No: EP-00819-0006, Computer Skills Foundation, 2011/9
24. Class B Certification of the cloud technology, No: AF23RU2U0071510, Industrial Technology Research Institute, 2011/7
25. Certification of the Microsoft Technology ASSOCIATE (Security Fundamentals), Microsoft, 2011/6
26. Certification of the Microsoft Technology ASSOCIATE (Database Administration Fundamentals), Microsoft, 2011/6
27. Certification of the Microsoft Technology ASSOCIATE (Networking Fundamentals), Chinese Enterprise Resource Planning Society, 2011/6
28. Certification of the Business Intelligence Planner, No: BIP11CE00096, Chinese Enterprise Resource Planning Society, 2011/6
29. Microanalysis EBA Certification, No: EBA2010000169, Microanalysis & Assisted by M.O.E. Center, 2010/8
30. Microanalysis CRM Certification, No: CRM2010000949, Microanalysis & Assisted by M.O.E. Center, 2010/8
31. Certification of the MCAS(Master), Microsoft, 2010/5
32. Certification of the MCAS(Outlook 2007), Microsoft, 2010/5
33. Certification of the MCAS(Word 2007), Microsoft, 2010/5
34. Certification of the MCAS(Excel 2007), Microsoft, 2010/5
35. Certification of the MCAS(PowerPoint 2007), Microsoft, 2010/5
36. TQC-DK FUNDAMENTALS OF e-Commerce (Professional), Computer Skills Foundation, 2010/5
37. TQC-OA FUNDAMENTALS OF Internet (Professional), Computer Skills Foundation, 2010/5
38. ITE E-Business Assistant Planner, No: AP-15666-0373, Computer Skills Foundation, 2010/5
39. TQC-DK Domain Knowhow (Professional), Computer Skills Foundation, 2009/6
40. Certification of Project Management, National Projects Management Association, 2009/6
41. Certification of ITIL Foundation Examination (Version 3), No: 00123126-01-VYX9, APM GROUP,



2009/2

42. Certification of the MOS(Master), Microsoft, 2009/1
43. Certification of the MOS(Access 2003), Microsoft, 2009/1
44. Certification of the MOS(Word 2003), Microsoft, 2009/1
45. Certification of the MOS(Excel 2003), Microsoft, 2009/1
46. Certification of the MOS(PowerPoint 2003), Microsoft, 2009/1
47. Certiport Internet and Computing Core Certification(IC3), Certiport, 2009/1
48. Class B Certification of the computer software applications, No: (B) 142404, Council of Labor Affairs, 1999/1

## Grants

1. Ministry of Education, No. 68001100205-EDU, Team Based Learning combined with formative assessment and remedial learning to enhance the learning effectiveness of database courses, 2021/08/01 ~ 2022/07/31
2. Ministry of Education, No.34001080070-EDU, Smart and Innovative Talent Cultivation Model School Program (Class A)-Cross-field Talent Cultivation Program in the Digital Economy Era, 2019/02/01 ~ 2023/01/31
3. Ministry of Science and Technology, "school public opinion analysis and data visualization system", No: MOST 107-2637-E-218-006 -, 2018/08/01 ~ 2019/08/31
4. Tainan City Government, No. 331060101, "106 Annual Training Data Visualization and Data Application Study Program", 2017/6 - 2017/11
5. Ministry of Science and Technology, "Research on Big Data of Top and Prospect Research", No: MOST 105-2634-F-218-001, 2016/09/01 ~ 2017/08/31
6. Ministry of Education, No: 331000033-GP, "Certification courses of the Microsoft Technology Associate(MTA) " 2011/8 - 2012/12
7. Ministry of Education, No: 331000034-GP, "Certification courses of the E-business " 2011/8 - 2012/12
8. National Science Council, No: NSC 99-2410-H-218 -017, "Mining Correlation Patterns of High Utility Itemsets and Frequent Traversal Paths," 2011/8 - 2012/7.
9. Metal Industries Research &Development Centre, No: 330990453, "Diagnostic evaluation of the implant of Customer relationship management" 2011/8 - 2011/12
10. National Science Council, No: NSC 99-2410-H-218 -017, "investigating the influence of multiple factors on the merchandise sales in chains of convenience stores in tourist spots," 2010/8 - 2011/7.
11. Ministry of Education, No: 330990038-GP, "Certification courses of the EC-COUNCIL " 2010/1 - 2011/6
12. Ministry of Education, No: 330990045-GP, "Integrating information technologies into teaching ideas competition for the national primary and secondary school,"2010/5-2011/3.
13. Ministry of Economic Affairs, No: 330980098, "The implanting of ERP system of Shen Cheng Chang Corp." 2010/1 - 2010/5
14. Ministry of Economic Affairs, No: 330980103, "Intelligent Systems and e-commerce knowledge sharing and digital learning platform of I-gin Corp." 2010/1 - 2010/5
15. Metal Industries Research &Development Centre, No: 330980117, "R&D of the Network security systems and technology " 2011/8 - 2011/12
16. National Science Council, No: NSC- 94-2218-E-218-009, "Incremental Fuzzy Periodical Association Rules Mining Between Merchandise in Different Sales Volume Intervals," 2005/8 - 2006/7.
17. National Science Council, No: NSC-93-2213-E-218-012, "Multiple Levels Incremental Association Rule Mining with Multiple Minimum Supports in Space-location Relationships Between Merchandises," 2004/8 - 2005/7.
18. National Science Council, No: NSC- 92-2213-E-218 -020, "Solving NP-Complete Problem in the Adleman-Lipton Model" 2003/8 - 2004/7.

## Honors and Awards

1. Outstanding Instructor Award, Southern Taiwan University, 2009/2
2. Outstanding Instructor Award, Southern Taiwan University, 2008/8
3. Excellent Award of Outstanding teaching teachers, Southern Taiwan University, 2008/8.
4. Outstanding Instructor Award, Southern Taiwan University, 2008/2
5. Outstanding Instructor Award, Southern Taiwan University, 2007/2
6. Excellent Award of Outstanding teaching teachers, Southern Taiwan University, 2007/8
7. Outstanding Instructor Award, Southern Taiwan University, 2008/8

## Patents

1. Intelligent advertising flyer management and application system, 2017/08/01~2036/06/07, I594200
2. The mass transit the planning system, 2017/05/01~2026/06/27, M541003
3. A method and system for finding a friend outdoors, 2016/10/11~ 2035/04/28, I553295
4. Collaborative Recommendation System for Library Collection, 2016/03/11~ 2033/01/28, I525571
5. Key borrowing management system, 2014/07/01~ 2024/03/11, M481460
6. LCD monitor with dual control projector, 2014/03/21~ 2023/12/10, M474939
7. Unscrupulous commodity inquiry platform, 2013/08/21~ 2023/05/05, M460346
8. Mobile phone integrated radio video call device, 2013/08/21~ 2023/05/06, M460468
9. Remote control power strip, 2013/04/01 ~2022/06/27, M45010
10. Air quality detection device, 2013/04/01~2022/06/27, M449725
11. Ear style Bluetooth headset, 2013/03/11 ~2022/10/15, M448865
12. Diabolo stick, 2013/02/11 ~2022/08/15, M446653
13. The clip body's structure improvement, 2012/12/01~2022/06/27, M442116
14. Point reading pen with wireless transmission function, 2012/12/01~2022/06/28, M44255
15. With tachograph wipers automation module, 2012/11/21~2022/05/06, M441592
16. Chassis devices with wireless detection, 2012/11/11~2022/06/28, M441273
17. Safety belt for Motocycles, 2012/09/11~2022/05/01, M437180
18. The charging cradle activities cabinet, 2012/08/11~2022/04/09, M435773