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Education

- PhD, Institute of Computer and Communication Engineering, National Cheng-Kung University, 2005/7
- Master, Department of engineering science, National Cheng-Kung University, 1990/6
- BBA, Department of Computer Engineering, National Chao-Tung University, 1985/6

Area of Specialty

- Computer Network
- Web Mining
- RWD Webpage Design
- Web Security
- Internet Application Development

Academic Experience

- Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2015/08 to present
- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2006/2 to 2015/07
- Assistant Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2005/8 to 2006/1
- Instructor, Department of Information Management, Southern Taiwan University of Science and Technology, 1990/8 to 2005/7

Journal Papers

1. Jyi-Ta Chen, "Development of a Food ChatBot based on BERT Model", Information and Management Science, Vol. 16, No. 1, pp.4-27, Jul 2023.
2. Jyi-Ta Chen, "Performance Improvement of a Manufacturing Execution System Designed by Using Cloud Computing Technology in the Optoelectronics Industry", Journal of Technology, Volume 37, Number 4, December 2022.
3. Jyi-Ta Chen, "The Establishment and Recommendation System of Patent Knowledge Ontology", Information and Management Science, Vol. 15, No. 1, pp.4-19, Jun 2022.
4. Jyi-Ta Chen, "Analysis and Exploration of Real-time Meteorological Data Based on Hadoop Distributed Computing", Information and Management Science, Vol. 14, No. 1, pp.55-73, Jul 2021.
5. Jyi-Ta Chen, "Achieving Intelligent Semantic Retrieval with AQI ontology", Information and Management Science, Vol. 13, No. 2, pp.35-58, Dec 2020.
6. Jyi-Ta Chen, Bo-jun Kuo, "Improving webpage capture performance with containerization technology", Information and Management Science, Vol. 13, No. 1, pp.37-55, Jul 2020.
7. Jyi-Ta Chen, "The Data Mining Research on Climate Change Based on SPARK Technology", Information and Management Science, Vol. 12, No. 2, pp.29-46, Dec 2019.
8. Jyi-Ta Chen, "Implementation and Difference Analysis of Web Service Communication Protocol", Information and Management Science, Vol. 11, No. 2, pp.19-31, Dec 2018.

Conference Papers

1. Jyi-Ta Chen, Hsien-Kuang Chiou, Jin-Yu Huang, "The Construction of Intelligent ChatBot –Taking Technology News Retrieval as an Example", 2023 Symposium on Global Business Operation and Management, Apr 2023.
2. Jyi-Ta Chen, Wan-Jan Su, "Comparison of LSTM and BERT for Movie Review Classification", 2023 Symposium on Global Business Operation and Management, Apr 2023.
3. Jyi-Ta Chen, Wan-Chin Huang, "Development of Chat Bot Based on BERT and Multi-classes Classification schemes", 2023 Symposium on Global Business Operation and Management, Apr 2023.
4. Jyi-Ta Chen, Wan-Jan Su, "The Pivot of Shaping the Culture of Cybersecurity for Enterprises Learned from Cybersecurity Incidents", 2023 International Symposia on Striving for Excellence in Higher Education, Mar 2023.
5. Jyi-Ta Chen, Hsien-Kuang Chiou, Jin-Yu Huang, "Using BERT and Related Technologies to Improve the Retrieval Efficiency of Chatbots", Tanet 2022, Dec 2022.
6. Jyi-Ta Chen, Wan-Jan Su, "Comparison of Differences in Movie Comments Using Multiple Classifiers", Tanet 2022, Dec 2022.
7. Jyi-Ta Chen, Wan-Chin Huang, "Research on Chatbot Retrieval Technology-Based on BERT and Multi-classes Classification schemes", Tanet 2022, Dec 2022.
8. Jyi-Ta Chen, Ji-Shan Chen, "Analysis of the effect of limbs muscle mass on bone density", 2022 Conference on Health Management, Nov 2022.
9. Jyi-Ta Chen, Jia-Yun Kuo, "IDDSI grading information webpage combined with Hospital system integration to enhance staff and caregivers understanding of meal grading for Swallowing Disorders", 2022 Conference on Health Management, Nov 2022.
10. Jyi-Ta Chen, Fon-Jia Yang, "Research on Retrieval Efficiency of Chatbot - Using BERT as a Method", 2022 International Conference on Information Technology and Industrial Application", Apr 2022.
11. Jyi-Ta Chen, Hsien-Kuang Chiou, I-Shun Cheng, "Research on News Classification and Recommendation-Based on LDA Model and DNN Algorithm", 2022 International Conference on Information Technology and Industrial Application", Apr 2022.
12. Jyi-Ta Chen, Shu-Jun Xie, "A Research on Reference of Building and Improving An Elementary School Website: A Case Study of Tainan Municipal Elementary School", 2022 17th International Symposium on Healthcare Information Management, Mar 2022.
13. Jyi-Ta Chen, Hsien-Kuang Chiou, I-Shun Cheng, "Research on News Classification and Recommendation Using LDA and Deep Learning Algorithms", Tanet 2021, Dec 2021.
14. Jyi-Ta Chen, Fon-Jia Yang, "Improving the Search Efficiency of Chatbot Based on AI Scheme – Taking Tainan Cuisine as An Example", Tanet 2021, Dec 2021.
15. Jyi-Ta Chen, Hsien-Kuang Chiou, Bo-Nan Chen, "Development of news content classification and recommendation platform based on FastText Scheme", The E-learning and Information Technology Symposium 2021, pp.21, May 2021.
16. Jyi-Ta Chen, Bo-Nan Chen, "Development of a news content classification and recommendation platform based on word vector scheme", Tanet 2020, Oct 2020.
17. Jyi-Ta Chen, Jon-Chi Yang, "An App Design for Eating Delicacy Again", 2020 National Hospitality and Tourism Practice Conference, Jun 2020.
18. Jyi-Ta Chen, Chi-Jen Lee, "Research and Development of Patent Ontology Retrieval and Recommendation System", The 2020 Conference on Enterprise Competitiveness and Management, May 2020.
19. Jyi-Ta Chen, Ge-Lan Tsai, "The Development of FinTech Application with Chatbot Technology", The 2020 Conference on Enterprise Competitiveness and Management, May 2020.
20. Jyi-Ta Chen, Ge-Lan Tsai, "Developing a Chatbot System for Investment Consulting– Take Foreign Exchange As an Example", The 25th International Conference on Information Management and Practice, Dec 2019.
21. Jyi-Ta Chen, Chi-Jen Lee, "Designing a Patent Ontology with Retrieval and Recommendation

Function Based on Semantic Web Scheme", The 25th International Conference on Information Management and Practice, Dec 2019.

22. Jyi-Ta Chen, Ya-Hui Wu, "The development of chatbots-PTT gossip board articles as knowledge base", Tanet 2019, Sep 2019.
23. Jyi-Ta Chen, Ze-Hao Lin, "Campus navigation chat robot with adjustable vocabulary", Tanet 2019, Sep 2019.
24. Jyi-Ta Chen, Bo-Yun Shi, "Patent document application that can automatically convert patent ontology and semantic query", Tanet 2019, Sep 2019.
25. Jyi-Ta Chen, Jian-Ming Kuo, Ze-Hao Lin, "Development of a chat robot for campus navigation with automatic addition of keywords", The 2019 Conference on Information Technology and Application, Jun 2019.
26. Jyi-Ta Chen, Bo-Jun Kou, "Applying Containerization scheme to improve webpage capture performance - taking book price comparison as an example", Conference on Information Technology and Application in Outlying Island, May 2019.
27. Jyi-Ta Chen, Hsien-Kuang Chiou, Jian-Ming Kuo, Zhao-Jun Chen, Bo-Yun Shi, "Desing an automatic patent ontology system with semantic search function", Information Management and Electronic Commerce Management, May 2019.
28. Jyi-Ta Chen, Ya-Hui Wu, "Developing an Intelligent ChatBot - Taking the Ordering System as An Example", 24th International Conference on Information Management & Practice, Dec 2018.
29. Jyi-Ta Chen, Jian-Ming Kuo, Ze-Hao Lin, "To Develop a campus navigation chatbot with community software as the user interface", IMIAI 2018, Nov 2018.
30. Jyi-Ta Chen, Bo-Jun Kou, "Research on Distributed Crawler System Based on Containerization Technology", Tanet 2018 Taiwan Academic Network Conference, Oct 2018.
31. Jyi-Ta Chen, Hsien-Kuang Chiou, Jian-Ming Kuo, Zhao-Jun Chen, Bo-Yun Shi, "An Automated Patent Ontology Creation & Retrieval System Based on Semantic Web Technology", Tanet 2018 Taiwan Academic Network Conference, Oct 2018.

Dissertation

- Chen, Jyi-Ta (2005) "Embedding Lively Contents in XML Objects for a Content Syndication and Event Notification System", Ph.D. Dissertation, National Cheng Kung University

Books

- 1. Roaming in Data Structure-Using C Language(Scholars Book Co. Ltd), Mar 2005.

Professional Certifications

1. TQC-plus: Key Knowledge of IoT Development Certification, License ID: 232200800000610, 2020/08/06.
2. TQC-DK: AI Application and Technology - Professtional, License ID: 132190800001800, 2019/08/01.
3. Microsoft Technology Associate: Introduction to Programming using Python, Certificate NO: vpRx-uTYE, 2018/12/02.
4. IC3 Digital Literacy Certification: Computing Fundamentals, License ID: wv2UQ-fmKx, 2017/04/22.
5. IC3 Digital Literacy Certification: Living Online, License ID: QmCu-4Tmm, 2017/04/22.
6. TQC-OA: Colud Technology and Internet Services - Professional, License ID: 132160800001660, 2016/08/05.
7. TQC-DK: IOT Application and Technology - Advanced, License ID: 132160700010530, 2016/07/01.
8. TQC-DK: IOT Application and Technology - Professional, License ID: 132160700010840, 2016/08/01.
9. Microsoft Technology Associate: HTML5 Application Development Fundamentals, Certificate NO: F430-0808, 2015/10/15.

10. Microsoft Technology Associate: Windows Operating System Fundamentals, Certificate NO: F424-3539, 2015/10/07.
11. CSF: e_Enterprise Data Analysis Certification: Big Data Process and Analysis, Certificate NO: 431150800000100, 2015/08/07.
12. TQC-OA: Mobile Device Application Advanced, License ID: 132150700028390, 2015/07/02.
13. CEPRS: Fundamentals of APP for eBusiness, Certificate ID: CERPS1504506, 2015/05.
14. TQC-OA: Cloud Technology and Internet Services-Professional, License ID: 132140700013670, 2014/06/27.
15. TQC-OA: Mobile Device Application Professional, License ID: 132140800012340, 2014/08/05.
16. TQC+: Webpage Program Design Certification, License ID: 232130900000680, 2013/09/05.
17. e-Enterprise Planner Certification: Information Security and Law, Certificate No. 43112110001410, 2012/11/12.
18. Information Technology Expert-Linux Administration IT Expert, Certificate No. 311121100000030, 2012/11/08.
19. Information Technology Expert-Linux Advanced System Administration, Certificate No. 332120900000250, 2012/08/31.
20. Information Technology Expert-Linux Basic Operation, Certificate No. 332120900000240, 2012/08/31.
21. TQC-IP(Image Processing)-Photoshop CS4 Image Processing, Techficiency Quotient Certification, 2012/08/13.
22. Microsoft Technology Associate:Security Fundamentals, Certification No:D689-7888, 2012/03/18.
23. TQC-WD(Web Design)-Dreamweaver CS4 Web Design, Techficiency Quotient Certification, 2011/12/24.
24. Microsoft Technology Associate:Windows Server Administration Fundamentals, Certification No:D669-0023, 2011/12/18.
25. E-Enterprise Planner Certification—Internet Marketing, No:EP-00827-0014, computer skills Foundation, 2011/09/15.
26. Cloud Computing Technology Information Administrator, No:AF23RU2U0071511, Industrial Technology Research Institute, 2011/07/15.
27. Microsoft Technology Associate:Networking Fundamentals, 2011/05/01.
28. Microsoft Technology Associate:Software Development Fundamentals, 2011/05/01.
29. Microsoft Technology Associate:Database Administration Fundamentals, 2011/05/01.
30. TQC-OA(Office Application)-IE 6.0 Professional, Techficiency Quotient Certification, 2010/05/08.
31. TQC-DK(Domain Knowledge)--Fundamentals of e-Commerce, Techficiency Quotient Certification, 2010/05/08.
32. E-Enterprise Expert Certification, NO: AP-15409-0116, computer skills Foundation, 2010/05/31.
33. Customer Relationship Management Assistant., NO: L2010CRMA03008, The General Chamber of the R.O.C, 2010/03/28.
34. Project Administrator Core Knowledge Certification, NO:00440, computer skills Foundation, 2009/06/20.
35. TQC-DK(Domain Knowledge)--Fundamental of Project Management- Professional Level, Techficiency Quotient Certification, 2009/05/24.
36. ACA web communication dreamweaver 8, Adobe Certified Associate, 2009/04/01.

Professional Experience

- Programmer, Shin-nan Information System Development Company, Kaohsiung, Working experience, 1987/7 to 1988/6

Grants

1. "Development of Retrieval System Based on Patent Ontology and Patent Map", MOST 111-

- 2637-H-218-003 , Ministry of Science and Technology , 08/01/2022~07/31/2023 。
2. "Research on Constructing a Distributed Crawler System Based on Containerization Technology", MOST 109-2637-H-218-001 , Ministry of Science and Technology , 08/01/2020~07/31/2021 。
 3. "To Design a Cloud Information Platform for Disaster Management Based on Semantic Web and Spatial Information schemes” , MOST104-2119-M-218-001 , Ministry of Science and Technology , 01/01/2015~12/31/2015 。
 4. "Designing an Intelligent Hybrid Cloud System Based on Desktop as a Service and Security Approaches” , NSC102-2221-E-218-033 , Ministry of Science and Technology , 08/01/2012~07/31/2013 。
 5. "Applying Semantic Web and XML Signature/Encryption to Private Cloud Platform for heterogeneous Data Intermediary and Semantic Search Model”, NSC101-2221-E-218-051 , Ministry of Science and Technology , 08/01/2011~07/31/2012 。

Entrusted Practical Projects

1. Climate adaptation risk strain system establishment project-“Construction of Meteorological Data Real - time Monitoring and Management Cloud System Platform”, China Iron and Steel Company, NO: 331040451, 08/01/2015 ~~07/31/2016 。
2. “Meteorological data for real-time monitoring and management of cloud system platform , Ministry of Economic Affairs academic energy project plan , NO : 521030184, 01/01/2014~~12/31/2014 。
3. “Meteorological data for real-time monitoring and management of cloud system platform , Ministry of Economic Affairs academic energy project plan , NO : 331020088, 08/01/2013~~12/31/2013 。
4. “Customer intimate interactive services integration planning system to build the physical plan” , Jiaying Environmental Technology Co., Ltd , 101/04/16~101/11/30 。

Honors and Awards

1. The Best Paper, Jyi-Ta Chen, Hsien-Kuang Chiou, Yu-Wei Liu, “Analysis for Hadoop Computing Performance Based on Current Status Index of Network and System”, The E-learning and Information Technology Symposium 2016(EITS2016), pp.14, Mar 2016.
2. The Best Paper, Jyi-Ta Chen, Yan-Zhi Zeng, “Using Hadoop Distributed Computing for Big Data Analysis of Air Pollution”, The E-learning and Information Technology Symposium 2016(EITS2016), pp.33, Mar 2016.
3. The Best Paper, Jyi-Ta Chen, Hsien-Kuang Chiou, Jun-Xiang Lai, “A Climate Adaptation Countermeasure System Based on Semantic Web Approach”, The E-learning and Information Technology Symposium 2015(EITS2015), pp.25, Mar 2015.
4. The Best Paper, Jyi-Ta Chen, Hsien-Kuang Chiou, Zhong-Wei Pu, “Use Hadoop Cloud Computing Architecture to Improve System Performance for Journal Submission Recommended System”, The E-learning and Information Technology Symposium 2014(EITS2014), pp.35, Mar 2014.
5. The Best Paper, “Using the Semantic Web & Data Mining Schemes to Filter Pornography Webpages”, 2012 Information Education and Technological Application Conference, pp.B3-14-pp.B3-21, Mar 2012.
6. The Best Paper, “Increasing Security of VOIP Based on Dual Certification System”, 2010 Information Management and Communication Technology Conference, Oct 2010.
7. The Best Paper, “Adopting Mashup Service to Integrate Network Community & Geography Information System”, The 2009 Conference on Computer Science and Information Engineering Application, P.181-P.189, Dec 2009.
8. The Best Paper, “A Mashup Approach to Develop a Location-Aware Real-Time Mobile Information System”, 2007 Information Education and Technology Application Conference, pp.358-363, November 6, 2007.
9. The Best Paper, “ An Event Notification and Content Syndication System based on XML

Patents

1. Data mining method for integrating climate and air pollution data for respiratory disease prevention, ROC, I582718, CHEN,JYI-TA 、 CENE,I-HUA 、 GUO,GEN-MING, 2017/05~2036/06 。
2. Vendor meteorological evaluation analysis system, ROC, I543099, CHEN,JYI-TA 、 LAI,CHUN-HSIANG 、 GUO,GEN-MING, 2016/07~2034/04 。
3. Integrated meteorological analysis of tourist attractions recommendation and warning system, ROC, I532004, CHEN,JYI-TA 、 HUILING, WU 、 GUO,GEN-MING, 2016/05~2035/06 。
4. CLOUD-BASED PERIODICAL RECOMMENDATION SYSTEM AND OPERATION METHOD, ROC, I524196, CHEN,JYI-TA 、 GUO,GEN-MING 、 PU, CHUNG WEI, 2016/03~2034/01 。
5. VISION TESTING SYSTEM, ROC, I501751, CHEN,JYI-TA 、 GUO,GEN-MING 、 TENG, CHI FEN 、 LAI, YU JHU 、 LIN, SZU YU, 2015/10~2033/01 。
6. METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR ADAPTIVE RECOMMENDATION OF JOURNAL SUBMISSION, ROC, I501184, CHEN,JYI-TA 、 GUO,GEN-MING 、 CHEN, CHUN MI, 2015/09~2034/01 。
7. SYSTEM AND METHOD OF PERSONALIZED TEXTBOOK RECOMMENDATION, ROC, I501183, CHEN,JYI-TA 、 GUO,GEN-MING 、 CHEN, CHUN MI, 2015/09~2033/07 。
8. CLOUD BODY-SENSORY VIRTUAL-REALITY EYEGLASSES PRESCRIPTION SYSTEM, ROC, I492174, CHEN,JYI-TA 、 GUO,GEN-MING 、 TENG, CHI FEN 、 LAI, YU JHU 、 LIN, SZU YU, 2015/07~2033/02 。