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Education

- PhD, Department of Computer Science, National Tsing Hua University, 1993/6
- Master, Department of Computer Science, National Tsing Hua University, 1987/6

Area of Specialty

- E-Learning
- Information Retrieval
- Algorithm

Academic Experience

- Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 2014/02 to present
- Associate Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 1995/8 to 2014/01
- Chairperson, Department of Information Management, Southern Taiwan University of Science and Technology, 1999/7 to 2008/1

Journal Papers

1. Yi-Hsing Chang, Yin-Chen Yan, You-Te Lu, Effects of Combining Different Collaborative Learning Strategies with Problem-Based Learning in a Flipped Classroom on Program Language Learning, Sustainability, 14 (9), 5282, 2022.
2. Chang Y-H, Lin J-Y, Lu Y-T. Enhancing the Intention to Preview Learning Materials and Participate in Class in the Flipped Classroom Context through the Use of Handouts and Incentivisation with Virtual Currency. Sustainability. 2021; 13(6):3276. <https://doi.org/10.3390/su13063276> (SSCI)
3. Yi-Hsing Chang, Pei-Rul Lin and You-Te Lu, Development of a Kinect-Based English Learning System Based on Integrating the ARCS Model with Situated Learning, Sustainability, 12(5), 2037, 2020; doi:10.3390/su12052037
4. Yi-Hsing Chang*, Pin-Chun Chao, Rong-Jyue Fang, ARCS and RGT Integrated High-Efficiency E-Books, Educ. Sci. 9(2), 94, April, 29, 2019, <https://doi.org/10.3390/educsci9020094>. (ESCI)
5. Yi-Hsing Chang, An-Ching Song, Rong-Jyue Fang, Integrating ARCS Model of Motivation and PBL in Flipped Classroom: a Case Study on a Programming Language, Eurasia Journal of Mathematics, Science & Technology Education, 14(12), Sep, 2018. :em1631 DOI: <https://doi.org/10.29333/ejmste/97187>
6. Yi-Hsing Chang, Jhen-Hao Hwang, Rong-Jyue Fang, You-Te Lu, A Kinect- and Game-Based Interactive Learning System, Eurasia Journal of Mathematics, Science & Technology Education, 13(8), 4897-4914, Aug., 2017. (SSCI) DOI: 10.12973/eurasia.2017.00972a.
7. You-Te Lu, Yi-Hsing Chang, Tien-Wen Sung, The Relationship between Motivation, the Use of Mobile Devices and Satisfaction with Life for Older Farmers, Eurasia Journal of Mathematics, Science & Technology Education, 13(7), 4009-4020, June, 2017. (SSCI)
8. Yi-Hsing Chang, Yu-Kai Lin, Rong-Jyue Fang, You-Te Lu, A Situated Cultural Festival Learning System Based on Motion Sensing, Eurasia Journal of Mathematics, Science & Technology Education, 13(3), 571-588, 2017. (SSCI) (MOST 103-2511-S-218-002-) DOI

10.12973/eurasia.2017.00633a

9. Yi-Hsing Chang, Jheng-Yu Chen, Rong-Jyue Fang, You-Te Lu, Establishing a Game-Based Learning Cloud, *Intelligent Data Analysis and Applications, Advances in Intelligent Systems and Computing*, Vol. 535, pp 177-184, 2016. Doi: 10.1007/978-3-319-48499-0_22, ISSN: 2194-5357 (EI)
10. You-Te Lu, Yi-Hsing Chang*, Tien-Wen Sung, A Case Study on Information Literacy and the Use of Social Media for Senior Learners, *Intelligent Data Analysis and Applications, Advances in Intelligent Systems and Computing*, Vol. 535, pp 171-176, 2016. Doi: 10.1007/978-3-319-48499-0_22, ISSN: 2194-5357 (EI)
11. You-Te Lu, Yi-Hsing Chang, Investigation of the internet adoption on senior farmers, *Engineering Computations: International Journal for Computer-Aided Engineering and Software*, Vol. 33 Iss: 6, pp.1853 - 1864, 2016.(SCI)
12. Yi-Hsing Chang*, Kai-Xiang Chang, Implementation of a social widget system for enhancing the interaction among social networking websites, *Int. J. Computational Science and Engineering*, Vol. 13, No. 2, pp. 183-196, 2016. (EI). (NSC 99-2511-S-218-008-MY2)
13. Yi-Hsing Chang, Yen-Yi Chen, Nian-Shing Chen, You-Te Lu, Rong-Jyue Fang, Yet another adaptive learning management system based on Felder and Silverman's learning styles and Mashup, *Eurasia Journal of Mathematics, Science & Technology Education*, 12(5), 1273-1285, 2016. (SSCI) (NSC 102-2511-S-218 -001) doi: 10.12973/eurasia.2016.1512a
14. YI-HSING CHANG, BO-KAI CHEN, THE SYSTEMATIC CONSTRUCTION OF A VALID DOMAIN ONTOLOGY, *Journal of Internet Technology*, Vol. 16, No. 2, pp. 289-300, 2015. (SCIE) (NSC 102-2511-S-218 -001)
15. Yi-Hsing Chang*, Leng-Kang Chang Chien, Rong-Jyue Fang, The Design of a Medical Rules Synchronization System, *Lecture Notes in Electrical Engineering*, Vol. 331, pp. 481-491, 2015. (EI). (NSC 102-2511-S-218 -001)
16. Yi-Hsing Chang*, Jen-ch'iang Liu, APPLYING AN AR TECHNIQUE TO ENHANCE SITUATED HERITAGE LEARNING IN A UBIQUITOUS LEARNING ENVIRONMENT, *TOJET: The Turkish Online Journal of Educational Technology*, Vol.12, Issue 3, pp. 21-32, 2013/07. (ERIC) (NSC 101-2511-S-218-008)
17. Yi-Hsing Chang*, Rong-Jyue Fang, A Test Items Knowledge Library System for Adaptive Learning, *Computer Technology and Application*, Vol. 4, No. 4, pp. 175-184, 2013/04. (NSC 101-2511-S-218-008)
18. Yi-Hsing Chang, Jheng-Yu Chen, A Hybrid Cloud for Effective Retrieval from Public Cloud Services, *Intelligent Information and Database Systems, Lecture Notes in Computer Science*, Vol. 7802, pp 61-69, 2013. (EI) (NSC 101-2511-S-218-008)
19. Yi-Hsing Chang* and Bei-Sien Lin (2012) "A Ubiquitous System Supporting Game-Based Inquiry Learning", *International Journal of Mobile Communications*, Vol. 10, No. 2, pp. 190-212, 2012. (SSCI) (NSC 99-2511-S-218-008-MY2)
20. YI-HSING CHANG, BO-KAI CHEN (2011) "An Automatic Teaching Materials Construction System Based on Mashup, *Journal of Internet Technology*, 12(5), 781-788. (SCIE) (NSC 99-2511-S-218-008-MY2)
21. Yi-Hsing Chang (2011) "Automatically Constructing an Effective Domain Ontology for Document Classification, *Computer Technology and Application*, 2(3), 182-189. March 2011.(ISSN: 1934-7332) (NSC 99-2511-S-218-008-MY2)
22. Rong-Jyue Fang, Hua-Lin Tsai, Chi-Jen Lee, Yi-Hsing Chang (2009) , *Web-based Multimedia for Distance Learning, WSEAS TRANSACTIONS on INFORMATION SCIENCE & APPLICATIONS*, 6(8), 1320-1328. (EI)
23. Yi-Hsing Chang, Ching-Lung, Yang (2008), A HIGH-EFFICIENCY KNOWLEDGE MANAGEMENT SYSTEM BASED ON HABITUAL DOMAINS AND INTELLIGENT AGENTS, *International Journal of Software Engineering and Knowledge Engineering*, 18(8), 1083-1114. (SCI)
24. Yi-Hsing Chang, J. Wey Chen, Bin-Shan Lin (2008), KMsharer: An Information Technology Approach to Enable Knowledge Management Services, *International Journal of Technology*

- Management, 43(1/2/3), 252-265. (SCI/SSCI) NSC93-2416-H-218-008.
25. Yi-Hsing Chang, J. Wen Chen (2008), An Experimental Approach to Constructing and Enhancing a PC Cluster System for Scalable Network Services, *Journal of Computers*, 19(2), 42-54. (NSC92-2218-E-218-026)
 26. Yi-Hsing Chang, Tsung-Yi Lu, Rong-Jyue Fang (2007), A Validity E-Learning System Based on Knowledge Management and Intelligent Agents, *WSEAS TRANSACTIONS ON SYSTEMS*, 6(10), 1297-1309. (EI) (NSC95-2520-S-218-002)
 27. Yi-Hsing Chang*, Ching-Ming Cheng and Bin-Shan Lin (2007), An efficient Web Services-enabled Architecture for Radio Frequency Identification Environment, *International Journal of Mobile Communications*, 5(6). 646-660. (SSCI/EI)
 28. Yi-Hsing Chang, Cheng-Jung Lee, Bin-Shan Lin (2006), An Extensive CRON-Driven Automation Service Architecture for RSS Feed, *International Journal of Services and Standards*, 2(3), 286 - 302.
 29. Yi-Hsing Chang, Cheng-Jung Lee, Bin-Shan Lin (2006), Design and Implement an Automation Service System Based on CRONTAB, *International Journal of Services and Standards*, 2(2), 203-214.

Grants

1. National Science Council, No: 103-2511-S-218 -002, "Applying Motion-Sensing and AR Technologies to Enhance Situated Cultural Festivals Learning," 2014/8 - 2015/7.
2. National Science Council, No: 102-2511-S-218-008, "An Adaptive Augmented Reality Learning System Based on Learning Styles: Example by Monument Learning," 2013/8 - 2014/7.
3. National Science Council, No: 101-2511-S-218 -008, "Learning Cloud Supporting Game-based Inquiry Learning," 2012/8 - 2013/7.
4. National Science Council, No: NSC-99-2511-S-218-008-MY2, "The Study of an Effectively Adaptive Learning System Based on Web 2.0 and Mashup," 2010/8 - 2012/7.
5. National Science Council, No: NSC-98-2221-E-218-028 "Design and Implement of an Automatic synchronization System for the drug law check based on semantic web techniques: example by using NHI drugs laws and clinical drugs order checking system," 2009/8 - 2010/7.
6. Ministry of Education, No: 330970015, "The Digital Opportunity Center Coaching Project in North District, Tainan," 2008/6~2009/06.
7. National Science Council, No: NSC-96-2520-S-218-001, "Design and Implement of a Valid Adaptive e-Learning Management System," 2007/8 - 2008/7.
8. National Science Council, No: NSC-95-2520-S-218-002, "A Study on an e-Learning System based on Knowledge Management and Intelligent Agents," 2006/8 - 2007/7.
9. National Science Council, No: NSC-94-2218-E-218-008, "Design and Implement an automation service goods management system based on the technology of web service, multi-agent and Cron," 2005/8 - 2006/7.
10. National Science Council, No: NSC-93-2416-H-218-008, "The Study of High Performance Document Management System based on Web and XML Technology," 2004/8 - 2005/7.
11. National Science Council, No: NSC-92-2218-E-218-026, "The Study of High Performance Network Clustering System," 2003/8 - 2004/7.