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Information Sciences and Technology
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EDUCATION

- 2002 Ph. D., Instructional Systems**
The Pennsylvania State University, University Park, Pennsylvania
- 1999 M. Ed., Instructional Systems**
The Pennsylvania State University, University Park, Pennsylvania
- 1993 B. S., Information and Computer Engineering**
Chung Yuan Christian University, Taiwan

PROFESSIONAL EXPERIENCE

- 7/2010 – Present Associate Professor and Program Coordinator of
Information Sciences and Technology**
The Pennsylvania State University
Wilkes-Barre Campus, Pennsylvania
- 1/2006 - Present Affiliate Graduate Faculty of Learning Design and Technology**
The Pennsylvania State University
University Park Campus, Pennsylvania
- 8/2004 – 6/2010 Assistant Professor of Information Sciences and Technology**
The Pennsylvania State University
Wilkes-Barre Campus, Pennsylvania
- 8/2002 – 7/2004 Instructor of Information Sciences and Technology**
The Pennsylvania State University
Wilkes-Barre Campus, Pennsylvania
- 8/2000 – 5/2002 Graduate Lecturer/Teaching Assistant**
College of Information Sciences and Technology
The Pennsylvania State University, University Park, Pennsylvania

5/2000 – 8/2000 **Graduate Researcher/Research Assistant, Instructional Systems**
The Pennsylvania State University, University Park, Pennsylvania

4/1999 – 8/2000 **Instructional Design Assistant, World Campus**
The Pennsylvania State University, University Park, Pennsylvania

REFEREED JOURNAL PUBLICATIONS

1. Wang, H.C., Hsieh, Y.J., & **Chen, W.F.** (accepted). The Effect of Online Peer Assessment in Engineering Education: A Quasi-experimental Study, *International Journal of Engineering Education*.
2. Hsiao, W.B., Chiu, M.C., Chu, C.Y., & **Chen, W.F.** (accepted). A Systematic Service Design Methodology to Achieve Mass Personalization, *International Journal of Agile Systems and Management*.
3. Hsieh, P.H., Lee, C.I., & **Chen, W.F.** (2015). Students' Perspectives on E-portfolios' Development and Implementation: A Case Study in Taiwanese Higher Education, *Australasian Journal of Educational Technology*, 31(6), pp.641-656.
4. **Chen, W.F.** (2015). Guest Editorial: Current Trends of E-Learning in Engineering Education, *International Journal of Engineering Education (IJEE)*, 31(2), pp. 452-453.
5. Chou, P.N., **Chen, W.F.**, & Lin, H.T. (2015). An Investigation of Using Wiki to Facilitate Group Composition in Learning Engineering Knowledge: A Quasi-Experimental Study, *International Journal of Engineering Education (IJEE)*, 31(2), 619-626.
6. Chou, P.N. & **Chen, W.F.** (2015). Female Engineering Students' Perceptions of College Learning Experiences: A Qualitative Case Study in Taiwan, *International Journal of Engineering Education (IJEE)*, 31(1), pp. 2-11.
7. Xiao, D. & **Chen, W.F.** (2014). Pre-service Teachers' Perspectives on One-to-one Computing: A Mixed Method Study. *EAI Endorsed Transactions on E-Learning*. 14(4), e2, pp. 1-4.
8. Chou, P.N. & **Chen, W.F.** (2014). Global Resources in Engineering Education: A Content Analysis of Worldwide Engineering Education Journals. *International Journal of Engineering Education (IJEE)*, 30(3), pp. 701-710.
9. **Chen, W.F.** & Huang, J.T. (2012). Guest Editorial: Current Trends in Nanotechnology Education. *International Journal of Engineering Education (IJEE)*, 28(5), pp. 993-994.
10. **Chen, W.F.** (2012). An Investigation of Varied Types of Blended Learning Environments of Student Achievement: An Experimental Study. *International Journal of Instructional Media*, 39(3), pp. 211-218.

11. **Chen, W.F.** & Chuang, C.P. (2011). Effect of Varied Types of Collaborative Learning Strategies on Young Children: An Experimental Study, *International Journal of Instructional Media*, 38(4), pp. 351-358.
12. **Chen, W.F.**, Wu, W.H., Chuang, T.Y., & Chou, P.N. (2011). The Effect of Varied Game-based Learning Systems in Engineering Education: An Experimental Study. *International Journal of Engineering Education (IJEE)*, 27(3), pp. 482-487.
13. Chou, P.N., **Chen, W.F.**, & Dwyer, F.M. (2011). Effect of Varied Concept Mapping on Students' Hypermedia Learning. *International Journal of Instructional Media*, 38(2), pp. 177-186.
14. Wu, W.H., **Chen, W.F.**, Fang, L.C., & Lu, C.W. (2010, September). Development and Evaluation of Web Service-Based Interactive and Simulated Learning Environment for Computer Numerical Control. *Computer Applications in Engineering Education (CAEE)*, 18(3), pp. 407-422.
15. Wu, W.H., **Chen, W.F.**, Wang, T.L., Su, T.J. (2010, September). A Pedagogical Web Service-based Interactive Learning Environment for a Digital Filter Design Course: An Evolutionary Approach. *Computer Applications in Engineering Education*, 18(3), pp. 423-433.

-----BEFORE TENURED-----

16. Chou, P.N. & **Chen, W.F.** (2010, February). Chinese Students' Perceptions of Online Learning in Western Discussion Boards: A Cultural Perspective, *International Journal of Instructional Technology & Distance Learning*, 7(2), pp. 35-48.
17. Chou, P.N. & **Chen, W.F.** (2009). Understanding Online Non-Native English Speakers: An Acculturation Approach. *Educational Technology*, Special issue on Culture and Technology. Nov-Dec, pp. 24-27.
18. **Chen, W.F.** (2009). Teaching Problem Solving in Engineering Education. *International Journal of Engineering Education (IJEE)*, 25(4), pp. 723-728.
19. Chou, P.N. & **Chen, W.F.** (2009). Name-display Feature for Self-disclosure in an Instant Messenger Program: A Qualitative Study in Taiwan. *The Journal of Issues in Informing Science & Information Technology*, 6(1), pp. 113-126.
20. Chuang, T.Y. & **Chen, W.F.** (2009). Effect of Computer-Based Video Games on Children: An Experimental Study. *Educational Technology & Society (ETS)*, 12(2), pp. 1-10.
21. **Chen, W.F.** (2009). A Model for Assessing Web-based Simulations in Engineering Education. *International Journal of Engineering Education*, Special issue on Simulators for Engineering Education and for Professional Development, 25(2), pp. 318-323.

22. Wu, W.H, **Chen, W.F.**, Wang, T.L., & Su, C.H. (2008). Developing and Evaluating a Game-Based Software Engineering Educational System. *International Journal of Engineering Education*, Special issue on Trends in Software Engineering Education, 24(4), pp. 681-688.
23. Chou, P.N. & **Chen, W.F.** (2008). Exploratory Study of the Relationship between Self-Directed Learning and Academic Performance in a Web-Based Learning Environment, *Online Journal of Distance Learning Administration*, 11(1), pp.15-26.
24. **Chen, W.F.**, Wu, W.H., & Su, T.J. (2008). Assessing Virtual Laboratories in a Digital Filter Design Course: An Experimental Study. *IEEE Transactions on Education*, Special issue on Virtual Laboratories, 51(1), pp.10-16.
25. Wu, W.H. & **Chen, W.F.** (2008). Effect of Varied Types of Instructional Delivery Media and Messages for Engineering Education: An Experimental Study. *International Journal of Engineering Education*, 24(1), pp. 107-114.
26. Hsieh, P. H., Shouse, R. C., & **Chen, W. F.** (2007). Rationales of Providing Adaptive Educational Systems in Enhancing Different Learning Style Students' Reading Comprehension Abilities. *Asian Journal of Health and Information Sciences*, 1(4), pp.377-392.
27. Chuang, T.Y. & **Chen, W.F.** (2007). Effect of Digital Games on Children's Cognitive Achievement. *Journal of Multimedia*. 2(5), pp. 27-30.
28. Chuang, T.Y. & **Chen, W.F.** (2007). Digital Games for Cognitive Learning: A Pilot Study. *Journal of Scientific and Technological Studies*, 41(1), pp.17-27.
29. **Chen, W.F.** & Dwyer, F.M. (2006). Effect of Varied Elaborated Hypertext Strategies in Facilitating Students' Achievement of Different Learning Objectives. *International Journal of Instructional Media*, 33(2), pp.165-175.
30. **Chen, W.F.** (2005). Effect of Web Browsing Interfaces in Web-Based Instruction: A Quantitative Study. *IEEE Transactions on Education*, 48(4), pp. 652-657.
31. **Chen, W.F.** & Dwyer, F.M. (2003). Hypermedia Research: Present and Future. *International Journal of Instructional Media*, 30(2), pp. 143-148.

REFEREED CONFERENCE PROCEEDINGS

1. Chen, W.F., Chou, P.N., & Carey, R. (2015). Using 3-D Open Source Software to Facilitate Students' Spatial Visualization Skills. *Proceedings of IEEE Frontiers in Education 45th Annual Conference*, El Paso, Texas, October 21-24, pp. 1696-1698.

2. Chen, W.F. (2015). The Role of Affective Domains in Instructional Design: A Case Study of K-12 Education in the United States. *Proceedings of the 33rd Curriculum and Instruction Forum*, Taichung, Taiwan, October 2-3, 2015, pp. 50-59.
3. Xiao, D. & Chen, W.F. (2014). Examining College Students' Experience and Perspectives on Laptop Use in Teaching and Learning: A Mixed Method Study, *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2014*, 2014(1), pp. 2115–2119.
4. Thackara, D. & Chen, W.F. (2014). Collaborative Writing in E-Learning: A Critical Analysis, *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2014*, 2014(1), pp. 1912-1917.
5. Chen, W.F. & Wang, H.C. (2013). Peer Evaluation in an Undergraduate Database Management Class: A Quasi-experimental Study. *Proceedings of IEEE Frontiers in Education 43th Annual Conference*, Oklahoma City, Oklahoma, October 23-26, pp. 179-180.
6. Chou, P.N. & Chen, W.F. (2013). The Effects of Self-directed Learning Ability and Page Interface Design on Students' Electronic Reading Performances, *Proceedings of the AECT International Conference on the Frontier in E-Learning Research 2013*, Taichung, Taiwan, June 18-20, pp.61-62.
7. Chou, P.N. & Chen, W.F. (2013).The Effect of Various Guided Learning Strategies on College Students' Electronic Reflection Learning Performances, *Proceedings of The 17th Global Chinese Conference on Computers in Education*, May 27-31, Beijing, China.
8. Chen, W.F. (2013). The Current Trends of e-Learning in US Higher Education, *Proceedings of The 2013 International Conference on Education: Educational Issue and Development of the Digital Era*, Tainan, Taiwan, May 9, 2013, pp. K1-2-1-10.
9. Yeh, K.C. & Chen, W.F. (2011). Using a Computer Gaming Strategy to facilitate Undergraduates' Learning in a Computer Programming Course: An Experimental Study. *Proceedings of IEEE Frontiers in Education 41th Annual Conference*, Rapid City, South Dakota, October 12-15, pp. S4H/1-2.
10. Chen, W.F. (2010). An Investigation of Varied Game-Based Learning Systems in Engineering Education. *Proceedings of IEEE Frontiers in Education 40th Annual Conference*, Arlington, Virginia, October 27-30, pp. S1G/1-2.

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11. Wu, W.H. & Chen, W.F. (2010). Developing a Game-based Learning Environment in Classrooms: A Conceptual Model. *Proceedings of International Conference of Society*

for Information Technology and Teacher Education, San Diego, CA, USA, March 29 – April 2, pp. 2115-2117.

12. Chou, P.N., Hsiao, H., & Chen, W.F. (2009). The Effect of Concept Mapping on Students' Online Hypermedia Learning: A Pilot Study. *Proceedings of World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 26-30, 2009, pp. 2465-2468.
13. Chen, W.F. (2009). Creating Expert Systems in Engineering Education. *Proceedings of IEEE Frontiers in Education 39th Annual Conference*, San Antonio, TX, October 18-21, pp. W2J/1-2.
14. Chou, P.N., Chen, W.F., & Hsieh, H.W. (2009). Non-native English Students' Perceptions of Culture in the Online Asynchronous Discussion Board. *Proceedings of World Conference on Educational Multimedia, Hypermedia & Telecommunications 2009*, Honolulu, HI, June 22-26, pp. 340-345. [supervised doctoral students' publication]
15. Chou, P.N. & Chen, W.F. (2009). E-portfolio Use at Higher Education Institutions: Potential Problems for Pedagogy. *Proceedings of the International Conference on Multimedia Information and Communication Technologies in Education (m-ICTE 2009)*, Lisbon, Portugal, Spain, April 22-24, pp. 1312-1315.
16. Wu, W.H, Chen, W.F., Wang, T.L., Fang, L.C., and Lu, C.W. (2008). Development and Assessment of WSISLE-CNC for Engineering Education. *Proceedings of the World Congress on Engineering and Computer Science (WCECS 2008)*, San Francisco, October 22-24, pp. 599-601.
17. You, J.H., Chuang, T.Y. and Chen, W.F. (2008). Enhancing Students' Spatial Ability by Implementing a Digital Game. *Proceedings of the 16th International Conference on Computers in Education (ICCE 2008)*, Taipei, Taiwan, October 27-31, pp. 693-694.
18. Chen, W.F., Wu, W.H, Wang, T.L., and Su, C.H. (2008). A Game-Based Learning System for Software Engineering Education. *Proceedings of IEEE Frontiers in Education 38th Annual Conference*, Saratoga Springs, NY, October 22-25, 2008, pp. T2A/12-13.
19. Chou, P. & Chen, W.F. (2008). From Portfolio to E-Portfolio: Past, Present, and Future. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Las Vegas, Nevada, USA, March 3-7, pp. 22-27.
20. Chou, P. & Chen, W.F. (2008). Self-Directed Learning and Academic Performance in Web-Based Learning: An Exploratory Study. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Las Vegas, Nevada, USA, March 3-7, pp. 278-284.

21. Chen, W.F. (2007). Evaluating a Case-based Reasoning Approach in an Introductory Programming Course. *Proceedings of IEEE Frontiers in Education 37th Annual Conference*, Milwaukee, WI, October 10-13, pp. S2G/3-4.
22. Chen, W.F. (2007). Creating Web Service-based Learning Environments for a Digital-filter Design Course. *Proceedings of IEEE Frontiers in Education 37th Annual Conference*, Milwaukee, WI, October 10-13, pp. S1H/1-2.
23. Chuang, T.Y. & Chen, W.F. (2007). Evaluating Computer Games for Children. *Proceedings of World Conference on Educational Multimedia, Hypermedia & Telecommunications 2007*, Vancouver, B.C., Canada, June 25-29, 2007, pp. 3253-3257.
24. Hsieh, P.H, Shouse, R.C. & Chen, W.F. (2007). Providing Adaptive Educational Systems in Enhancing Students' Reading Comprehension Abilities. *Proceedings of 2007 Taiwan E-Learning Forum*, Taichung, Taiwan, May 18-19, 2007, p.34.
25. Chuang, T.Y. & Chen, W.F. (2007). Effect of Computer-Based Video Games on Children: An Experimental Study. *Proceedings of The 1st IEEE International Workshop on Digital Game and Intelligent Toy Enhanced Learning*, Jhongli, Taiwan, March 26-28, pp.114-118.
26. Chen, W.F. & Wu, W.H. (2006). Effects of Text, Illustration, and Simulation in a Digital Signal Processing Course: An Experimental Study. *Proceedings of IEEE Frontiers in Education 36th Annual Conference*, San Diego, USA, October 28-31, M2D11-12.
27. Chen, W.F. & Yeh, K.C. (2006). Creating a Case-Based Reasoning Digital Library to Improve Learning in an Introductory Programming Course. *Proceedings of IEEE Frontiers in Education 36th Annual Conference*, San Diego, USA, October 28-31, pp. S2E21-22.
28. Chen, W.F. (2006). Improving Visualized Instruction with Web Browsing Interfaces: A Quantitative Approach. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Orlando, FL, March 20-24, Vol. 2006, Issue. 1, pp. 2480-2482.
29. Chuang, T.Y., Chen, W.F., & Chuang, C.P. (2006). Effect of Computer Games on Young Children: A Pilot Study. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Orlando, FL, March 20-24, Vol. 2006, Issue. 1, pp. 858-862.
30. Wu, W.H., Chen, W.F., & Wang, T.L. (2006). A Development of Pedagogical Web Service-based Interactive Learning Environment (PEWSILE) for a Digital Filter Design Course. *Proceedings of the Fifth IASTED International Conference on Web-Based Education (WBE 2006)*, Puerto Vallarta, Mexico, January 23-25, 2006.

31. Chen, W.F. & Wu, W.H. (2005). Effects of Instructional Delivery Messages and Media in a Digital Signal Processing Course. *Proceedings of Frontier in Education 36th Annual Conference*, Indianapolis, Indiana, USA, October 19-22, 2005, pp. S1H/23-24.
32. Chen, W.F. (2005). Creating an Active Learning Environment for a Computer Networking Class: Expert Systems Construction. *Proceedings of Frontier in Education 36th Annual Conference*, Indianapolis, Indiana, USA, October 19-22, 2005, pp.S3C/15-16.
33. Wu, W.H., Chen, W.F., Su, Y.H., Wang, T.L., & Su, T.J. (2005). An Investigation of a Mobile Learning System in a Digital Filter Course. *Proceedings of the 5th IEEE International Conference on Advanced Learning Technologies*, Kaohsiung, Taiwan, July 5-8, 2005, pp.169-170.
34. Chuang, T.Y., Chen, W.F., Hsieh, P., and Anderson, A. (2005). The Effect of Computer-Based Video Games on Young Children: A Literature Review. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Vol. 2005, Issue. 1, pp. 3954-3957.
35. Chen, W.F. (2004). Effect of Hypermedia Display Interfaces in Facilitating Achievement of Learning Objectives. *Proceedings of Frontier in Education 35th Annual Conference*, Savannah, GA, USA, October 20-23, 2004, Vol. 1, pp. T3F/5-8.
36. Chen, W.F., Chuang, C.P. and Chuang, T.Y. (2004). Effect of Varied Types of Hypermedia Display Interfaces in Facilitating Achievement of Different Learning Objectives. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Atlanta, Georgia, USA, March 1-6, pp.876-878.
37. Chen, W.F., Chuang, C.P. and Chuang, T.Y. (2004). Computer-Assisted Collaborative Learning in Taiwan: An Experimental Study. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Atlanta, Georgia, USA, March 1-6, pp. 872-875. **[BEST PAPER AWARD]**
38. Chuang, T.Y and Chen, W.F. (2004). E-Learning in ESL Classrooms: A Literature Review. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Atlanta, Georgia, USA, March 1-6, pp. 2047-2048.
39. Chen, W.F. (2003). The Impact of Hypertext Materials on Undergraduate Students: An Experimental Study. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Albuquerque, New Mexico, USA, March 24-29, pp. 291-293.
40. Chuang, C.P. & Chen, W.F. (2003). Computer-Assisted Collaborative Learning for Young Children: A Quantitative Study. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Albuquerque, New Mexico, USA, March 24-29, pp. 3258-3261.

41. Chuang, C.Y. & Chen, W.F. (2003). Perceptions of Online Learners in Taiwan: A Case Study of EduCities. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, Albuquerque, New Mexico, USA, March 24-29, pp. 297-299.
42. Chen, W.F., (2002). The Effect of Elaboration Strategies in a Hypertext Environment on Learning. *Proceedings of ED-MEDIA 2002: World Conference on Educational Multimedia, Hypermedia & Telecommunications*, Denver, Colorado, pp. 295-296.
43. Chen, W.F., Dwyer, F.M. & Chuang, C.P. (2001). Hypermedia on Learning: A Literature Review. *Proceedings of WebNet 2001: World Conference on the WWW and Internet*, Orlando, Florida, pp. 179-183.
44. Chen, W.F. (2001). Learning with Hypermedia: Potential Problems and Research Suggestions. *Proceedings of the 5th Global Chinese Conference on Computers in Education (GCCCE)/10th International Conference on Computer-Assisted Instruction 2001*, Chungli, Taiwan.
45. Chuang, C.P. & Chen, W.F. (2001). A Computer-Aided Expert System for Museum Education. *Proceedings of the 5th Global Chinese Conference on Computers in Education (GCCCE)/10th International Conference on Computer-Assisted Instruction 2001*, Chungli, Taiwan.
46. Chen, W.F. (1999). An Application of Artificial Intelligence in Education---Student Expert Systems Construction. *Proceedings of the 8th International Conference on Computer-Assisted Instruction (ICCAI)*, Taichung, Taiwan, pp. 1-2.
47. Chen, W.F. (1998). An Application of Information Technology in Classrooms: Creating Expert Systems for Improving Problem Solving. *Proceedings of the International Conference on Information Technology and Multimedia at UNITEN (ICIMU'98)*, Tenaga, Malaysia, pp. SB 3.1-3.5.

SUPERVISION OF UNDERGRADUATE PUBLICATIONS

The following supervised undergraduate publications were prepared by undergraduates who contributed 90% of each article.

48. Gozdiskowski, M.T. & Chen, W.F. (2007). Open Source Software in Virtual University Development: An Overview. *Proceedings of World Conference on Educational Multimedia, Hypermedia & Telecommunications 2007*, Vancouver, B.C., Canada, June 25-29, pp. 603-605.
49. Pentka, D., Kluger, T., Chen, W.F., Hsieh, P., and Anderson, A. (2005). Effect of Multimedia Training Lessons on Undergraduate Students. *Proceedings of International Conference of Society for Information Technology and Teacher Education*, 2005(1), Phoenix, AZ, March 1-5, pp. 2404-2406.

50. Benscoter, J., Holland, K. and Chen, W.F. (2004). Instructional Design in E-Learning: A Comparison of the University of Phoenix to Penn State World Campus. *Proceedings of World Conference on E-Learning in Corporate, Government, Health, & Higher Education, 2004(1)*, Washington, D.C., November 1-5, pp. 1096-1100.
51. Regan, B., Morgan, M., Novicki, P., Shillabeer, S., & Chen, W.F. (2004). Distance Learning in United States: An Overview. *Proceedings of World Conference on E-Learning in Corporate, Government, Health, & Higher Education, 2004(1)*, Washington, D.C., November 1-5, pp. 1685-1688.

SUPERVISED UNDERGRADUATE RESEARCH PRESENTATIONS

1. Uber, D. (2015). Tablets as Learning Devices, Accepted to present in E-Learn 2015 – World Conference on E-Learning, Kona, Hawaii, October 19-22, 2015.
2. Demellier, J., Carey, R., and Hill, A. (2015). Music Buff. Poster presented in the 2015 Undergraduate Exhibition, University Park, PA, April 8, 2015.
3. Welsh, R.L. (2014). Radio Frequency Identification in Classrooms/Electronic Learning, Accepted to present in E-Learn 2014 – World Conference on E-Learning, New Orleans, LA, October 27-30, 2014.
4. Reese, B., Graham, T., & Nevenglosky, P. (2013). Computer Virtualization: Current Trends, Poster presented in the 2013 Undergraduate Exhibition, University Park, April 10, 2013.
5. Tailor, S.K. (2012). Mobile Technologies in International Business: An Overview, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Montréal, Canada, October 9-12, 2012.
6. Reese, B. (2012). Computer Virtualization: Current Trends, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Montréal, Canada, October 9-12, 2012.
7. Zukosky, T. (2012). Internet Freedom Advocates eLearning in the United States of America, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Montréal, Canada, October 9-12, 2012.
8. Kerlavage, T. (2012). Mobile E-Learning: Current Applications and Challenges, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Montréal, Canada, October 9-12, 2012.
9. Sawchak, A. (2011). Integrating Online Classroom Learning Experience with the Facebook, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.

10. Pellesch, M., Dubil, M. & Smyth, K., (2011). Digital Libraries for E-Learning, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.
11. Robbins, B. (2011). The Effects of Online Classrooms in a Virtual University, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.
12. Sobocinski, B. (2011). Improving E-Learning Environments by Cloud Computing, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.
13. Parry, A. (2011). Collaborative Learning: A Review of Literature, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.
14. Ulichney, J. (2011). Facebook: Implications on Future Employment, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Honolulu, Hawaii, USA, October 17-21, 2011.
15. Rutschky, M. (2010). Designing Brain-Computer Interaction: Processes and Principles, Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Orlando, Florida, USA, October 18-22, 2010.
16. Chen, S. (2010). Virtual Classrooms: An Overview. Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Orlando, Florida, USA, October 18-22, 2010.
17. Naro, R. (2010). Group Dynamics and Strategies in Massively Multiplayer Online Role Playing Games. Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Orlando, Florida, USA, October 18-22, 2010.
18. Hynes, K. (2010). Investigating Tangible Interfaces for Facilitating Learning Children: A Literature Review. Accepted to present in the World Conference on E-Learning in Corporate, Government, Health, & Higher Education, Orlando, Florida, USA, October 18-22, 2010.

-----BEFORE TENURED-----

19. Chimock, B.S., Heath, J., Rakowski, M., & Chen, W.F (2005). Learning via Video Games: A Literature Review. Accepted to present in the *World Conference on E-*

Learning in Corporate, Government, Health, & Higher Education, Vancouver, Canada, October 24-28, 2005.

20. Finlon, S. & Chen, W.F. (2005). Lessons Learned from the UK eUniversity. Accepted to present in the *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 24-28, 2005.
21. Fino, M. & Chen, W.F. (2005). Effects of Graphical-User and Command-Based Interfaces: A Pilot Study. Accepted to present in the *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 24-28, 2005.
22. Hess, J. & Chen, W.F. (2005). Expert System Applications in E-Learning: Present and Future. Accepted to present in the *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 24-28, 2005.
23. Kaszowicz, J., Sabbatini, D., & Chen, W.F. (2005). Multimedia Development in Workforce Training. Accepted to present in the *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 24-28, 2005.
24. Meis. I. & Chen, W.F. (2005). The Use of Video Conferencing in Distance Learning. Accepted to present in the *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, Vancouver, Canada, October 24-28, 2005.

PRESENTATIONS AND INVITED LECTURES

1. Chen, W.F. (2015). The Role of Affective Domains in Instructional Design: A Case Study of K-12 Education in the United States. Keynote Speech in the 33rd Curriculum and Instruction Forum, Taichung, Taiwan, October 2-3, 2015.
2. Chen, W.F. (2013). The Current Trends of e-Learning in US Higher Education, Keynote Speech in The 2013 International Conference on Education: Educational Issue and Development of the Digital Era, National University of Tainan, Taiwan, May 9, 2013.

-----BEFORE TENURED-----

3. Chen, W.F. (2007). E-Learning Research: Past, Present, and Future. Invited talk at the National University of Tainan, Taiwan, December 21, 2007.
4. Chen, W.F. (2006). Research Proposal Development, Invited guest lecture in Instructional Systems doctoral seminar INSYS 575: Designing Experimental Research in Instructional Systems, University Park, February 27, 2006.

5. Chen, W.F. (2005). Web Security Techniques. Presented in the Annual IST/Business Career Day, PS-Wilkes-Barre, November 17, 2005.
6. Chen, W.F. (2005). Data Analysis in Quantitative Research: Using SPSS. Invited workshop in the Instructional Systems Program, Penn State University, University Park, March 18, 2005.
7. Chen, W.F. (2004). *Hypermedia Research: Present and Future*. Invited lecture in the Scholarly Lecture Series, Penn State University, Wilkes-Barre, February 10, 2004.
8. Chen, W.F. (2004). *Writing the Proposal: From Start to Finish*. Invited lecture in the INSYS 575: Designing Experimental Research in Instructional Systems, Penn State University, University Park, February 9, 2004.
9. Chen, W.F. & Dwyer, F.M. (2003). Effect of Varied Elaborated Hypertext Learning Materials in Facilitating Achievement of Different Learning Objectives. Paper presented in *2003 Annual Conference of Pennsylvania Association for Supervision and Curriculum Development*, Hershey, Pennsylvania, USA, November 23-25.
10. Chen, W.F. (2003). *Internet Research: Present and Future*. Invited lecture given at the STS 200 Honors Lecture Series: Critical Issues on Science, Technology and Society. Penn State University, Wilkes-Barre, Pennsylvania, April 9, 2003.
11. Chen, W.F. & Chuang, C.P. (2002). The Impact of Computer-Assisted Collaborative Learning on Third Grade Students. Paper presented in the *40th Annual Conference of Pennsylvania Association for Educational Communications and Technology*, Hershey, Pennsylvania, USA, November 24-26.
12. Chen, W.F. & Chuang, C.P. (2002). Computer-Assisted Collaborative Learning in Art Education: An Experimental Study. Paper accepted for presentation in the *E-Learn 2002 International Conference*, Montreal, Canada, October 15-19, 2002.
13. Chen, W.F. (2001). *Hypermedia Research: Present and Future*. Paper presented in *39th Annual Conference of Pennsylvania Association for Educational Communications and Technology (PAECT)*, Hershey, Pennsylvania, November 18-20, 2001.
14. Chen, W.F. (2001). Learning with Hypertext: A Critical Analysis of Research Problems. Paper accepted for presentation in the *Association for Educational Communications and Technology (AECT)*, Atlanta, Georgia, November 7-10, 2001.
15. Chuang, C.P. & Chen, W.F. (2001). The Effects of Computer-Based Instruction v.s. Learner Support and Prior Knowledge on Children's Art Appreciation. Paper accepted for presentation in the *Association for Educational Communications and Technology (AECT)*, Atlanta, Georgia, November 7-10, 2001.

16. Chuang, C.P. & Chen, W.F. (2001). A Computer-Based Expert System for Art Collectors. Paper accepted for presentation in the *Association for Educational Communications and Technology (AECT)*, Atlanta, Georgia, November 7-10, 2001.
17. Chen, W.F. (2000). An Online Course Development Model for Penn State World Campus. Paper presented in the *38th Annual Conference of Pennsylvania Association for Educational Communications and Technology (PAECT)*, Hershey, Pennsylvania, November 19-21. 2000.
18. Chuang, C.P. & Chen, W.F. (2000). A Computer-Aided Expert System for Collectors of Chinese Porcelain. Paper presented in the *38th Annual Conference of Pennsylvania Association for Educational Communications and Technology (PAECT)*, Hershey, Pennsylvania, November 19-21. 2000.
19. Chen, W.F. (2000). *Programming Languages: Java versus JavaScript*. Invited lecture given at the IST 110: Introduction to Information Science and Technology, Penn State University, University Park, Pennsylvania, October 20, 2000.
20. Tan, S.C., Ho, W., Kim, J.H. & Chen, W.F. (1999). Implementation of an IT Master Plan in a Singapore High School: A Case Study. Paper presented in the *12th Semi-Annual Instructional Systems Poster Session*, University Park, Pennsylvania, December 2, 1999.
21. Chen, W.F. (1999). The Effect of Varied Information Processing Strategies and Learning Styles on Student Achievement of Procedural Knowledge. Paper presented in the *11th Semi-Annual Instructional Systems Poster Session*, University Park, Pennsylvania, April 26, 1999.
22. Chen, W.F. (1999). A Student-created Statistics Expert System. Paper presented in the *Division of Learning and Performance Environment (DLPE), Association for Educational Communications and Technology (AECT)*, Houston, Texas, February 10-14, 1999.
23. Chen, W.F. (1998). Creating an Active Learning Environment in Classrooms: Constructing Expert Systems. Paper presented in the *36th Annual Conference of Pennsylvania Association for Educational Communications and Technology (PAECT)*, Hershey, Pennsylvania, November 22-24, 1998.
24. Chen, W.F. (1997). Pictures? Pictures! Paper presented in the *7th Semi-Annual Instructional Systems Poster Session*, University Park, Pennsylvania, April 29, 1997.
25. Ho, W., Carr, C., Chen, W.F. & Mingyar, C. (1996). Re-engineering Transportation Engineering. Paper presented in the *6th Semi-Annual Instructional Systems Poster Session*, University Park, Pennsylvania, December 2, 1996.

PROFESSIONAL JOURNAL EDITORIALS

Guest Co-Editor (with Tony Huang at Penn State) for an SCI International Refereed Journal: International Journal of Engineering Education on the SPECIAL ISSUE ON CURRENT TRENDS IN NANOTECHNOLOGY EDUCATION (2011-12)

Guest Editor for an SCI International Refereed Journal: International Journal of Engineering Education on the SPECIAL ISSUE ON CURRENT TRENDS OF E-LEARNING IN ENGINEERING EDUCATION (2013-14)

Guest Co-Editor (with Pao-Nan Chou at National University of Tainan, Taiwan) for an SCI International Refereed Journal: International Journal of Engineering Education on the SPECIAL ISSUE ON CURRENT TRENDS IN K-12 ENGINEERING EDUCATION (2015-16)

PROFESSIONAL JOURNAL REVIEWERS

ACM/Springer Multimedia Systems Journal (2005)
Asia Pacific Education Review (2009)
Computer Applications in Engineering Education (2008 - present)
Educational Technology & Society (2007 - present)
IEEE Transactions on Education (2004 – present)
IEEE Transactions on Learning Technologies (2009 - present)
International Journal of Digital Content Technology and its Applications (2014 - present)
International Journal of Engineering Education (2007 - present)
Sensors (2014 - present)

SUPERVISION OF GRADUATE DISSERTATIONS AND THESES AT UNIVERSITY PARK

Appointed as a member of the faculty of the Graduate School since January 2006

Doctoral Dissertation Advisor

1. Pei-Hsuan Hsieh, Ph.D. in Learning Design and Technology (May 2007 graduated)
2. Pao-Nan Chou, Ph.D. in Learning Design and Technology (August 2009 graduated)

Doctoral Program Committee

Learning Design and Technology

3. Wenyi Ho, Ph.D. (December 2007 graduated)
4. Mine Munyofu, Ph.D. (May 2008 graduated)
5. Hsin-I Cindy Yung Ph.D. (May 2008 graduated)
6. Martin Yeh, Ph.D. (August 2009 graduated)
7. Yang Yang, Ph.D. candidate passed her defense of dissertation proposal on February 26, 2008.
8. Lili Cui, Ph.D. candidate, passed her candidacy exam on December 16, 2008.
9. Shawn Foley, Ed.D. candidate, passed his comprehensive exam on August 30, 2010.
10. Wonseok Suh, Ph.D. candidate, passed his comprehensive exam on December 3, 2010.
11. Chakorn Techatassanasoontorn, Ph.D. candidate, passed his candidacy exam on February 23, 2011.
12. Yaozu Dong, Ph.D. candidate, passed his candidacy exam on February 18, 2011.

Adult Education, Workforce Education & Development, and others

13. Jin Gu Lee, Ph.D. candidate, (May 2010 graduated).
14. Ho-Yuan Chen, Ph.D. candidate, passed his comprehensive exam on August 13, 2009.
15. Fang Mei, Ph.D. candidate, passed her comprehensive exam on August 27, 2010
16. Jin Yong Kim, Ph.D. candidate passed his comprehensive exam on September 2, 2010.
17. Chaorrry Huang, Ph.D. candidate passed his comprehensive exam on July 8, 2014. The committee chair is Dr. Roger Shouse.
18. Jinjie Wang, Ph.D. candidate passed her comprehensive exam on November 7, 2014. The committee chair is Dr. Ladislaus M. Semali.
19. Xilin Ye, Ph.D. candidate passed her comprehensive exam on December 12, 2014. The committee chair is Dr. Ladislaus M. Semali.
20. Pei-Wei Lee, Ph.D. candidate passed her comprehensive exam on November 19, 2015. The committee chair is Dr. Ladislaus M. Semali

Master's professional paper second reviewer

21. Chia-Su Lin, M.Ed. (May 2006 graduated)
22. Ahmet Baytak, M.Ed. (August 2006 graduated)
23. Hee Jae Jeong, M.Ed. (August 2006 graduated)
24. Michael Hofherr, M.Ed. (December 2006 graduated)
25. Stephanie Hunt, M.Ed. (May 2007 graduated)
26. Clayton Beal, M.Ed. (August 2007 graduated)
27. Pao-Nan Chou, M.Ed. (August 2007 graduated)
28. R-Jay Wilde, M.Ed. (August 2008 graduated)
29. Aaron E. Waters, M.Ed. (August 2008 graduated)
30. Xiaoyun Liu, M. Ed. (December 2008 graduated)
31. Heidi Van Middlesworth, M.Ed. (May 2009 graduated)
32. Eric R. Mattson, M.Ed. (May 2009 graduated)
33. Heng-Huei Han, M.Ed. (May 2009 graduated)
34. Jillian Rimmer, M.Ed. (August 2009 graduated)
35. Lili Cui, M.Ed. (December 2009 graduated)
36. Janessa Weaver, M.S. (May 2010 graduated)
37. Pei-Wei Lee, M.Ed. (August 2010 graduated)
38. Weitian An, M.Ed. (August 2010 graduated)
39. Jessica Briskin, M.Ed. (December 2010 graduated)

TEACHING

■ **Undergraduate Courses (Wilkes-Barre Campus)**

CMPSC 101: Introduction to Algorithmic Process
CMSSC 221: Object Oriented Programming with Web-Based Applications
CMPBD 205: Intermediate Programming Techniques for Business
IST 110: Introduction to Information Sciences and Technology
IST 111: Seminar in Information Sciences and Technology
IST 210: Organization of Data
IST 211: Advanced Topics in Relational Database Management Systems
IST 250: New Media and the Web
IST 256: Programming for the Web
IST 301: Information and Organizations
IST 302: IT Project Management
IST 331: Organization & Design of Information Systems: User and System Principles
IST 402: Emerging Technologies
IST 420: Fundamentals of Systems and Enterprise Integration
IST 440W: IST Integration and Problem Solving
IST 495: IST Internship
STAT 200: Elementary Statistics

■ **Graduate Courses (University Park Campus)**

INSYS 441: Design, Development and Evaluation of Internet Resources
INSYS 525: Instructional Design Models, Strategies, and Tactics

INSYS 551: Performance Technology for Instructional Designers

INSYS 602: Supervised College Teaching

- **Penn State Professional and Continuing Education (University Park Campus)**
CMPSC 101: Introduction to Algorithmic Processes
CMPSC 097A: Creating Web Pages with HTML and JavaScript
- **Adult and Continuing Education (State College Area School District)**
Mathematics in General Education Development (GED) Program

SERVICE TO THE UNIVERSITY

University Level

1. Member, e-Learning Strategic Committee, appointed by the Vice Provost for Information Technology (AY 2009-2012)
2. Affiliate Member, Academic Management Team (Committee), The Commission on Racial/Ethnic Diversity (CORED) (AY 2009-2012)
3. Full Member, Academic Management Team (Committee), The Commission on Racial/Ethnic Diversity (CORED) (AY 2014-2018)
4. Judge, University Undergraduate Research Exhibition (AY 2010 – present)
5. Planning Committee Member, The 11th Annual Pre-tenure Symposium, “Equity and Inclusion: Successfully Navigating the Promotion and Tenure Process,” University Park, October 16, 2015.

College Level

1. College of IST Curricular Committee – IST 250 (AY 2008-present)
2. University College Faculty Council (AY 2009-2015)
3. Peer review of teaching at PS-Hazleton & Worthington/Scranton: Dr. Eric Lu PS-Hazleton and Dr. Alex Hai Wang at PS-Worthington/Scranton, Reviewer. (AY 2012)
4. IST-Brandywine Faculty Search Committee, Committee Member. (October 1, 2014 - December 31, 2014)
5. University College Promotion and Tenure Committee Member (2015-16)

Campus Level

1. University Committee on Instructional Facilities (AY 2004-2005)
2. First-Year Seminar Planning Committee (AY 2004-2005)
3. Scholarly Activities Committee (AY 2005-2012, Chair in AY 2007-2012)
4. Academic Affairs Committee (AY 2004-2005, 2013-present)
5. Faculty Advisor, *Information Sciences and Technology Student Association*, Penn State Wilkes-Barre, AY 2006-present.
6. Campus Faculty Senate Executive Committee (AY 2008-present)
7. IST Campus Program Coordinator, Penn State Wilkes-Barre (AY 2010 – present)
8. International Student Affairs Committee (AY 2010-present)

9. Promotion/Tenure Committee, (AY 2013 – 2015)
10. CS/Math Faculty Search Committee (Summer, 2014)
11. Campus Centennial Committee (AY 2015-2016)
12. Physics Faculty Search Committee (AY 2015-2016)
13. Administration of Justice Faculty Search Committee (AY 2015-2016)

SERVICE TO SOCIETY AND TO THE PROFESSION

1. Campus Liaison, *IST Advisory Board*, Penn State Wilkes-Barre, AY 2006-present.
2. International Conference Program Committee, *World Conference on E-Learning in Corporate, Government, Health, & Higher Education*, 2005-present.
3. Conference Session Chair for the following conferences:
 - 1) *IEEE Frontiers in Education Conference*.
 - 2) *World Conference on Educational Multimedia, Hypermedia & Telecommunications*.
 - 3) *International Conference of Society for Information Technology and Teacher Education*.
 - 4) *International Conference of Society for Information Technology and Teacher Education*.

PROFESSIONAL AFFILIATIONS

Active Memberships

Association for the Advancement of Computing in Education (AACE)
Association for Computing Machinery (ACM) SIG/CHI Group
American Society for Engineering Education (ASEE)
Institute of Electrical and Electronics Engineers (IEEE)

Past Memberships

Alpha Kappa Chapter of Pi Lambda Theta, International Honor Society
Association for Educational Communications and Technology (AECT)
Council on Undergraduate Research (CUR)
Pennsylvania Education Research Association (PERA)
Pennsylvania Association for Educational Communications and Technology (PAECT)

AWARDS AND HONORS

- **Hayfield Award for Research Excellence 2014-2015**
 - Awarded by The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania
- **Hayfield Award for Research Excellence 2008-2009**
 - Awarded by The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania

- **Schreyer Institute Teaching Support Grant Award, 7/1/2008-6/30/2009**
— Awarded by Schreyer Institute for Teaching Excellence, The Pennsylvania State University, University Park Campus, Pennsylvania
- **Undergraduate Research Stipends Grant Award, 7/1/2006-6/30/2007**
— Awarded by The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania
- **Schreyer Institute Grant Award for Teaching Excellence, 4/1/2006-4/30/2007**
— Awarded by Schreyer Institute for Teaching Excellence, The Pennsylvania State University, University Park Campus, Pennsylvania
- **Scholarly Activity Grant Award 7/1/2005-6/30/2006**
— Awarded by Scholarly Activities Committee, The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania
- **Research Development Grant Award 2004-2005 & 2005-2006 & 2006-2007**
— Awarded by University College, The Pennsylvania State University, University Park, Pennsylvania
- **Teaching Development Grant Award 2004-2005, 2005-2006, & 2007-2008**
— Awarded by University College, The Pennsylvania State University, University Park, Pennsylvania
- **Hayfield Award 2004-2005 for Professional Development**
— Awarded by The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania
- **Best Research Paper Award 2004**
— Awarded by the International Conference of Society for Information Technology and Teacher Education, Atlanta, Georgia, USA, March 1-6, 2004.
- **Scholarly Activity Grant Award 2003-2004**
— Awarded by Scholarly Activities Committee, The Pennsylvania State University, Wilkes-Barre Campus, Pennsylvania
- **Teaching Assistant of the Year 2001-2002**
— Awarded by College of Information Sciences and Technology, The Pennsylvania State University, University Park, Pennsylvania