

Publication List

(A) Journal Papers

- [1] Chang, C. T., Tsai, C. Y., Tsai, H. H., Li, Y. J., & Yu, P. T. (2020). [An Online Multi-User Real-Time Seamless Co-Reading System for Collaborative Group Learning](#). *International Journal of Distance Education Technologies (IJDET)*, 18(4), 51-70. (EI) MOST 107-2511-H-150-001
- [2] H.-H. Tsai*, C.-T. Chang, X.-Y. Hou, Y.-M. Yong, K.-C. Chiou, and P.-T. Yu, "Interactive student response system with iBeacon and web-socket for flipped classroom learning," *Journal of Computing in Higher Education*, 31(2), pp. 340 – 361, August 2019. (SSCI) (impact factor: 2018: 1.87, Rank factor N/M: 79/243, Q2, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:2/0/0) MOST 105-2511-S-150-003 and MOST 107-2511-H-150-001.
- [3] H.-H. Tsai* and Y.-C. Chang, "Facial expression recognition using a combination of multiple facial features and support vector machine," *Soft Computing*, 22, pp. 1–17, 19 May 2017. (SCI) (impact factor: 2018: 2.784, Rank factor N/M: 53/134, Q2, Category Name: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CN/SCN/CN5:10/0/10) NSC 98-2511-S-150 -002 and MOST 104-2221-E-150-010.
- [4] C.-Y. Tsai, J.-M. Hsu, H.-H. Tsai, P.-T. Yu, and W.-F. Huang, "A multi-party Mahjong-like spelling game for English vocabulary learning," *International Journal of Innovation and Learning*, vol. 19, no. 4, pp. 397-411, June 2016. (ESCI) NSC 99-2511-S-150-002, NSC101-2511-S-150-003, and MOST 103-2511-S-150-002
- [5] B.-M. Chang, H.-H. Tsai*, and C.-Y. Yen, "SVM-PSO based rotation-invariant image texture classification in SVD and DWT Domains," *Engineering Applications of Artificial Intelligence*, vol. 52, pp. 96-107, June 2016, (SCI) (impact factor: 2018: 3.526, Rank factor N/M: 15/88, Q1, Category Name: ENGINEERING, MULTIDISCIPLINARY, CN/SCN/CN5:8/0/8) MOST 104-2221-E-150-010 and NSC98-2511-S-150-002.
- [6] H.-H. Tsai*, Y.-S. Lai, Shih-Che Lo, and P.-T. Yu, "Perceived effectiveness of using the life-like multimedia materials tool," *Educational Technology & Society*, vol. 18, issue 3, pp. 89-99, July 2015. (SSCI) (impact factor: 2018:2.133, Rank factor N/M: 55/243, Q1, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:0/0/0) NSC 99-2511-S-150-002, NSC101-2511-S-150-003, and MOST 103-2511-S-150-002.
- [7] B.-M. Chang, H.-H. Tsai*, and J.-S. Shih, "Using Fuzzy Logic and Particle Swarm Optimization to Design a Decision-based Filter for cDNA Microarray Image Restoration," *Engineering Applications of Artificial Intelligence*, vol. 36, pp. 12-26, Nov. 2014. (SCI) (impact factor: 2018: 3.526, Rank factor N/M: 15/88, Q1, Category Name: ENGINEERING, MULTIDISCIPLINARY, CN/SCN/CN5:4/0/4) (NSC 98-2511-S-150 -002 & NSC101-2511-S-150-003)
- [8] H.-H. Tsai, B.-M. Chang*, and S.-H. Liu, "Rotation Invariant Image Retrieval Using PSO and SVR," *Applied Soft Computing*, vol. 17, pp. 127-139, Apr. 2014. (SCI) (impact factor: 2018:

- 4.873, Rank factor N/M: 11/106, Q1, Category Name: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS, CN/SCN/CN5:10/0/10) (NSC 99-2511-S-150-002 & NSC101-2511-S-150-003)
- [9] H.-H. Tsai and Shih-Che Lo*, "JND-based watermark embedding and GA-based watermark extraction with fuzzy inference system for image verification," *Informatica*, vol. 25, no. 1, pp. 113-137, March 2014 (SCI, EI) (impact factor: 2018: 1.928, Rank factor N/M: 43/254, Q1, Category Name: MATHEMATICS, APPLIED, CN/SCN/CN5:4/0/3) (NSC 94-2213-E-150-029, NSC 97-2221-E-150 -070 & NSC 99-2511-S-150-002)
- [10] B.-M. Chang, H.-H. Tsai*, and W.-L. Chou, "Using visual features to design a content-based image retrieval method optimized by particle swarm optimization algorithm," *Engineering Applications of Artificial Intelligence*, vol. 26, issue 10, pp. 2372-2382, Nov. 2013. (SCI) (impact factor: 2018: 3.526, Rank factor N/M: 15/88, Q1, Category Name: ENGINEERING, MULTIDISCIPLINARY, CN/SCN/CN5:14/0/11) (NSC 98-2511-S-150-002)
- [11] H.-H. Tsai, Y.-S. Lai*, and S.-C. Lo, "A zero-watermark scheme with geometrical invariants using SVM and PSO against geometrical attacks for image protection," *Journal of Systems and Software*, vol. 86, issue 2, pp. 335-348, Feb. 2013. (SCI-E, EI) (impact factor: 2018: 2.559 Rank factor N/M: 25/105, Q1, Category Name: COMPUTER SCIENCE, THEORY & METHODS, CN/SCN/CN5:30/0/22) NSC 97-2221-E-150 -070 & NSC 99-2511-S-150-00
- [12] H.-H. Tsai, Y.-S. Lai*, and Y.-J. Jhuang, "An SVD-based Image watermarking in wavelet domain using SVR and PSO," *Applied Soft Computing*, vol. 12, issue 8, pp. 2442-2453, Aug. 2012. (SCI) (impact factor: 2018: 4.873, Rank factor N/M: 11/106, Q1, Category Name: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CN/SCN/CN5:45/0/31) (NSC 97-2221-E-150 -070)
- [13] H.-H. Tsai, B.-M. Chang*, and X.-P. Lin, "Using decision tree, particle swarm optimization, and support vector regression to design a median-type filter with a 2-level impulse detector for image enhancement," *Information Sciences*, vol. 195, issue 1, pp. 103-123, 15 Jan. 2012. (SCI, EI) (impact factor: 2018: 5.524, Rank factor N/M: 9/155, Q1, Category Name: COMPUTER SCIENCE, INFORMATION SYSTEMS, CN/SCN/CN5:9/0/2) (SCI-E, EI) (NSC 99-2511-S-150-002)
- [14] Y.-S. Lai, H.-H. Tsai*, and P.-T. Yu, "A screen-capturing system with two-layer display for PowerPoint presentation to enhance classroom education," *Educational Technology & Society*, vol. 14, issue 3, pp. 68-81, July 2011. (SSCI) (impact factor: 2018: 2.133, Rank factor N/M: 55/243, Q1, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:6/0/2) NSC 97-2221-E-150 -070 & NSC 99-2511-S-150-002
- [15] Y.-S. Lai, H.-H. Tsai*, and P.-T. Yu, "Integrating annotations into a dual-slide powerpoint presentation for classroom learning," *Educational Technology & Society*, vol. 14, issue 2, pp. 43-57, April 2011. (SSCI) (impact factor: 2018:2.133, Rank factor N/M: 55/243, Q1, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:12/0/9) NSC 97-2221-E-150 -070& NSC 99-2511-S-150-002

- [16] H.-H. Tsai* and Chi-Chih Liu, "Wavelet-based image watermarking with visibility range estimation based on HVS and neural networks," *Pattern Recognition*, vol. 44, issue 4, pp. 751-763, April 2011 (SCI-E, EI) (impact factor: 2018: 5.898 Rank factor N/M: 14/134, Q1, Category Name: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CN/SCN/CN5:26/0/13) NSC 94-2213-E-150 -029
- [17] B.-M. Chang, H.-H. Tsai*, X.-P. Lin and P.-T. Yu, "Design of median-type filters with an impulse noise detector using Decision Tree and Particle Swarm Optimization for image restoration," *Computer Science and Information Systems*, vol. 7, no. 4, pp. 859-882, Dec. 2010. (SCI-E, EI) (impact factor: 2018:0.62, Rank factor N/M: 98/107, Q4, Category Name: COMPUTER SCIENCE, INFORMATION SYSTEMS, CN/SCN/CN5:3/0/0) NSC 97-2221-E-150 -070
- [18] P.-T. Yu*, Y.-S. Lai, H.-H. Tsai, and Y.-H. Chang, "Using a multimodal learning System to support music instruction," *Educational Technology & Society*, vol. 13, issue 3, pp.151–162, October 2010. (SSCI) (impact factor: 2018:2.133, Rank factor N/M: 55/243, Q1, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:9/0/4) NSC 96-2221-E-150-062
- [19] H.-H. Tsai*, H.-C. Tsezg, and Y.-S. Lai, "Robust lossless watermarking based on alpha-trimmed mean algorithm and support vector machine for image authentication," *Journal of Systems and Software*, vol. 83, pp. 1015-1028, 2010. (SCI-E, EI) (impact factor: 2018: 2.774, Rank factor N/M: 25/105, Q1, Category Name: COMPUTER SCIENCE, THEORY & METHODS, CN/SCN/CN5:33/0/17) NSC 96-2221-E-150-062
- [20] Y.-S. Lai, H.-H. Tsai, and P.-T. Yu*, "A multimedia English learning system using HMMs to improve phonemic awareness for English learning," *Educational Technology & Society*, vol. 12, issue 3, 266–281, July 2009. (SSCI) (impact factor: 2018:2.133, Rank factor N/M: 55/243, Q1, Category Name: EDUCATION & EDUCATIONAL RESEARCH, CN/SCN/CN5:10/0/4) NSC 95-2221-E-150-084
- [21] B.-M. Chang, H.-H. Tsai*, and P.-T. Yu, "The dempster-shafer theory combined with neural network in handwritten character recognition," *International Journal of Innovative Computing, Information and Control*, vol. 5, no. 9, pp. 2561-2573, Sept. 2009. (SCI-E, EI) (impact factor: 2010: 1.667; Rank factor N/M: 12/60, Q1, CN/SCN/CN5: 6/0/2) NSC 96-2221-E-150-062
- [22] H.-H. Tsai* and K.-C. Wang, "Wavelet based image watermarking using rank order and genetic algorithm," *Imaging Science Journal*, vol. 56, no. 16, pp. 201-216, Aug. 2008. (SCI, EI) (impact factor: 2018: 0.846; Rank factor N/M: 27/28, Q4, Category Name: IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY, CN/SCN/CN5:4/0/0) NSC 94-2213-E-150 -029
- [23] B.-M. Chang, H.-H. Tsai*, and P.-T. Yu, "Handwritten character recognition using a neuro-fuzzy system," *International Journal of Innovative Computing, Information and Control*, vol. 4, no. 9, pp. 2345-2362, Sept. 2008. (SCI-E, EI) (impact factor: 2010: 1.667; Rank factor N/M: 12/60, Q1, CN/SCN/CN5:7/0/1) NSC 95-2221-E-150-084
- [24] H.-H. Tsai* and D.-W. Sun, "Color Image Watermark extraction Based on Support Vector

- Machines," *Information Sciences*, vol. 177, issue 2, pp. 550-569, 15 Jan. 2007. (SCI, EI) (impact factor: 2018: 5.524, Rank factor N/M: 9/155, Q1, Category Name: COMPUTER SCIENCE, INFORMATION SYSTEMS, CN/SCN/CN5:107/0/29) NSC 91-2213-E-150-006
- [25] H.-H. Tsai* and W.-Y. Wang, "Genetic-based adaptive image watermarking using local image and image features," *Imaging Science Journal*, vol. 54, pp. 65-79, Jun. 2006. (SCI, EI) (impact factor: 2018: 0.846; Rank factor N/M: 27/25, Q4, Category Name: IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY, CN/SCN/CN5:3/0/0) NSC 92-2213-E-150-023
- [26] C.-M. Own, H.-H. Tsai*, P.-T. Yu, and Y.-J. Lee, "Adaptive Type-2 Fuzzy Median Filter for Removal of Impulsive Noises," *Imaging Science Journal*, vol. 54, pp. 3-16, Mar. 2006. (SCI, EI) (impact factor: 2018: 0.846; Rank factor N/M: 27/28, Q4, Category Name: IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY, CN/SCN/CN5:14/1/1) NSC 93-2213-E-150-009
- [27] H.-H. Tsai* and J.-S. Cheng, "Adaptive signal-dependent audio watermarking based on human auditory system and neural networks," *Applied Intelligence*, vol. 23, no. 3, pp. 191-206, Dec. 2005. (SCI, EI) (impact factor: 2018: 2.882; Rank factor N/M: 46/134, Q2, Category Name: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CN/SCN/CN5:10/0/3) NSC 90-2213-E-150-008
- [28] H.-H. Tsai*, J.-S. Cheng, and P.-T. Yu, "Audio watermarking based on HAS and neural networks in DCT domain," *EURASIP Journal on Applied Signal Processing* (new title: *EURASIP Journal on Advances in Signal Processing*), issue 3, pp. 252-263, Mar. 2003. (SCI, EI) (impact factor: 2006: 0.463; Rank factor N/M: 138/206, Q3, Category Name: ENGINEERING, ELECTRICAL & ELECTRONIC, CN/SCN/CN5:13/0/4) NSC 89-2218-E-150-010
- [29] P.-T. Yu, H.-H. Tsai*, and J.-S. Lin, "Digital watermarking based on neural networks for color images," *Signal Processing*, vol. 81, issue 3, pp. 663-671, Mar. 2001. (SCI, EI) (impact factor: 2018: 4.086; Rank factor N/M: 53/266, Q1, Category Name: ENGINEERING, ELECTRICAL & ELECTRONIC, CN/SCN/CN5:109/0/11) NSC89-2213-E-194-019
- [30] H.-H. Tsai, S.-H. Chen, and P.-T. Yu*, "On the design of neuro-fuzzy hybrid multichannel filters for color image restoration," *Journal of Electronic Imaging*, vol. 9(2), pp. 117-139, Apr. 2000. (SCI, EI) (impact factor: 2018: 0.924; Rank factor N/M: 220/266, Q4, Category Name: ENGINEERING, ELECTRICAL & ELECTRONIC, CN/SCN/CN5:3/0/0) NSC88-2213-E-194-011
- [31] H.-H. Tsai and P.-T. Yu*, "On the optimal design of fuzzy neural networks with robust learning for function approximation," *IEEE Trans. on Systems, Man, and Cybernetics B*: vol. 30, no. 1, pp. 217-223, Feb. 2000. (SCI, EI) (impact factor: 2014: 6.22; Rank factor N/M: 3/123, Q1, Category Name: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE, CN/SCN/CN5:23/0/2) NSC88-2213-E-194-011
- [32] H.-H. Tsai and P.-T. Yu*, "Genetic-based fuzzy hybrid multichannel filters for color image restoration," *Fuzzy Sets and Systems*, vol. 114, pp. 203-224, Sept. 2000. (SCI, EI) (impact factor:

2018: 2.907; Rank factor N/M: 16/254, Q1, Category Name: MATHEMATICS, APPLIED, CN/SCN/CN5:24/0/0) NSC88-2213-E-194-011

- [33] H.-H. Tsai and P.-T. Yu*, "Adaptive fuzzy hybrid multichannel filters for Removal of Impulsive Noise from Color Images," *Signal Processing*, vol. 7, no. 2, pp. 127-151, 1999, April. (SCI, EI) (impact factor: 2018: 4.086; Rank factor N/M: 53/266, Q1, Category Name: ENGINEERING, ELECTRICAL & ELECTRONIC, CN/SCN/CN5:18/0/1) NSC88-2213-E-194-011

中文期刊論文 (Journals in Chinese)

- [1] 賴膺守、蔡鴻旭、游寶達，"行動式影音教學系統在混合教學上之實作研究," 數位學習科技期刊-International Journal on Digital Learning Technology, volume 3, pp. 29-41, January 1, 2011. NSC 98-2511-S-150 -002
- [2] 游寶達、賴膺守*、蔡鴻旭(2009), "跨平台教學訓練引領學習再進化," 訓練與研發, 6, 25-31.
- [3] 張庭魁、蔡鴻旭，"基於「知識管理」檢討資訊管理系統之發展--以雲林縣政府為例"，資訊社會研究, Issue 6, pp. 57-88, Jan 2009. ISSN: 1680-8428.
- [4] 黃偉豪、謝馥安、李姿儀、蔡鴻旭*，"寬頻網路對傳統出版業的衝擊," 出版界, Issue 58/59, pp. 60-69, May 2000.
- [5] 蔡鴻旭*、李姿儀、鍾志明，"醫院門診資料的知識發現-以虎尾諾瑟醫院為例," 南華大學資訊管理研究學報, pp. 90-98, July 2001.
- [6] 蔡鴻旭*、王國俊、吳濟安、陳冷謹、蘇勇戩，"整合 XML 及 ASP 之 Web Service-建置二手購物網站為例," 中華民國自動化科技學會會刊, vol. 4, no. 2, pp. 30-37, June 2003.

審查中期刊論文(On Submission and Revision)

- [1] Hung-Hsu Tsai, Jie-Yan Peng, You-Ming Yong, Pao-Ta Yu, "Design of mobile learning feedback analysis system for flipped classroom," revised by *Journal of Computers in Education* (ESCI)
- [2] B.-M. Chang, H.-H. Tsai*, and P.-S. Lo, "Color Image Retrieval Based on MPEG-7 and SVM," submitted to *Fundamenta Informaticae* (SCI, EI) (NSC 98-2511-S-150-002)
- [3] H.-H. Tsai, J.-Y. Peng, Y.-M. Yong, C.-S. Wang, and P.-T. Yu, "Design of a mobile handwriting test revision system for cognitive apprenticeship instruction model in mathematics learning," ICBL 2017. Submitted to *Journal of Computing in Higher Education*. (SSCI)

即將完成期刊論文 (Incomplete Journal Papers)

- [4] H.-H. Tsai, Y.-M. Yong, J.-Y. Peng, K.-C. Chiou, and P.-T. Yu, "A Cloud-based Awareness Classroom Learning Activity Portfolio System Based on iBeacon for Flipped Classroom," ICCE 2017. (Major revisions will be submitted to *Journal of Computing in Higher Education*)
- [5] H.-H. Tsai* and Yi-Chu Chen, "Integrating multiple intelligence theory with interactive whiteboard for learning elementary mathematics of grade 6," in preparation.
- [6] H.-H. Tsai* and Yun-Jung Lin, "Integrating nine events of instruction theory, handwriting and interactive whiteboard for learning elementary mathematics of grade 1," in preparation
- [7] H.-H. Tsai* and You-Ren, Chen, "Multimedia materials presentation with a new e-book tool for learning elementary mathematics of grade 1," in preparation

(B) 研討會論文(Conference Papers)**國際會議(International Conferences Papers)**

- [1] Hung-Hsu Tsai, Xin-Yu Hou, Chih-Tsan Chang, Cheng-Yu Tsai, Pao-Ta Yu and Kuo-Ching Chiou, "Interactive Contents with 360-degree Panorama Virtual Reality for Soil and Water Conservation Outdoor Classroom", ISET 2020 (International Symposium on Educational Technology 2020) (Online oral presentation), Kasetsart University, Bangkok, Thailand, 24 to 27 August 2020.
- [2] Chih-Tsan Chang, Cheng-Yu Tsai, Ting-Wen Chang, Hung-Hsu Tsai and Pao-Ta Yu, "On the study of digital learning interactive method in situated learning," ISET 2020 (International Symposium on Educational Technology 2020) (Online oral presentation), Kasetsart University, Bangkok, Thailand, 24 to 27 August 2020.
- [3] Hung-Hsu Tsai*, Xin-Yu Hou, Chih-Tsan Chang, Cheng-Yu Tsai, Pao-Ta Yu and Kuo-Ching Chio, "An Interactive Virtual Reality Application in Education for Soil and Water Conservation," Proceedings of *International Symposium on Educational Technology* (ISET 2019), Hradec Kralove, Czech Republic, 2 to 4 July 2019.
- [4] Chih-Tsan Chang, Cheng-Yu Tsai, Ting-Wen Chang, Hung-Hsu Tsai and Pao-Ta Yu, "Effectiveness of Dual-Screen e-Learning Material Studying in 360-Degree VR Environment," Proceedings of *International Symposium on Educational Technology* (ISET 2019), Hradec Kralove, Czech Republic, 2 to 4 July 2019.
- [5] Chih-Tsan Chang, Cheng-Yu Tsai, Hung-Hsu Tsai, and Pao-Ta Yu, "Effective Technology and Systems of Interactive Presentation to Improve Learning Performance," *the 23TH Global Chinese Conference on Computers in Education*, Central China Normal University, China, May, 23-27, 2019.
- [6] Chih-Tsan Chang, Cheng-Yu Tsai, Hung-Hsu Tsai, and Pao-Ta Yu, "The Scaffolding VR Learning System to Improve the Level of Concentration," *eLearning Forum Asia (eLFAAsia)*, Chulalongkorn University (CHULA), May, 29-31, 2019.
- [7] Hung-Hsu Tsai*, Xin-Yu Hou, You-Ming Yong, Kuo-Ching Chiou, and Pao-Ta Yu, "Develop the Interactive Feedback Portfolio System with iBeacon Technology Applied in Flipped Classroom Learning Activities," *International Conference on Blended Learning 2018 (ICBL 2018)*, Kansai University, Osaka, Japan, 31 July - 2 August 2018. . (Selected good paper after major revisions was submitted to A Special Issue on “Blended Learning” of Journal of Computing in Higher Education)
- [8] Chih-Tsan Chang, Cheng-Yu Tsai, Yuen-Ju Li, Hung-Hsu Tsai and Pao-Ta Yu, "Seamless Co-Reading System for Collaborative Group Learning", *International Conference on Blended Learning 2018 (ICBL 2018)*, Kansai University, Osaka, Japan, 31 July - 2 August 2018. . (Selected good paper after major revisions was submitted to A Special Issue on “Blended Learning” of Journal of Computing in Higher Education)

- [9] Hung-Hsu TSAI*, You-Ming YONG, Jie-Yan PENG, Kuo-Ching CHIOU and Pao-Ta Yu, "A Cloud-based Awareness Classroom Learning Activity Portfolio System Based on iBeacon for Flipped Classroom," *the 25th International Conference on Computers in Education (ICCE 2017) at the 8th Innovative Designs for Mobile and Ubiquitous Learning: 1:1 and Beyond*, Christchurch, New Zealand, December 4th- 8th, 2017.
- [10] Hung-Hsu Tsai*, Jie-Yan Peng, You-Ming Yong, and Pao-Ta Yu, "Design of mobile learning feedback analysis system for flipped classroom," *International Mobile Learning Festival 2017 (IMLF2017)*, Hong Kong, SAR China, June 8 -11, 2017.
- [11] Hung-Hsu Tsai*, Jie-Yan Peng, You-Ming Yong, Chun-Shan Wang, and Pao-Ta Yu, "[Design of a mobile handwriting test revision system for cognitive apprenticeship instruction model in mathematics learning](#)," *International Conference on Blended Learning 2017 (ICBL 2017)*, the City University of Hong Kong, Hong Kong, SAR China, June 27-29, 2017.
- [12] Chih-Tsan Chang, Cheng-Yu Tsai, I-Chin Chu, Hung-Hsu Tsai, Pao-Ta Yu and Zhi-Cheng Dai, "[On the Design of Interactive MOOCs Content with Keying Skills](#)," *21st Global Chinese Conference on Computers in Education (GCCCE 2017)*, Beijing Normal University, Beijing, China, June 3-6, 2017.
- [13] Chih-Tsan Chang*, Cheng-Yu Tsai, Song-En Peng, Hung-Hsu Tsai and Pao-Ta Yu, "On the design of multi-user streaming feedback system for application of cooperative learning," *International Computer Symposium (ICS) 2016*, Chung Cheng University, Chia-yi, Taiwan, December 15-17, 2016.
- [14] Hung-Hsu Tsai*, Bae-Muu Chang, Pei-Shan Lo, Jie-Yan Peng, "[On the design of a color image retrieval method based on combined color descriptors and features](#)," *in the Proceedings of the First IEEE International Conference on Computer Communication and the Internet (ICCCI 2016)*, Central China Normal University, Wuhan, China on Oct. 13-15, 2016, (pp. 392-395). MOST 104-2221-E-150-010. (Proceedings of ICCCI 2016 had been included in IEEE Xplore, ISBN:978-1-4673-8515-2, IEEE Catalog Number: CFP16CHO-ART)
- [15] Hung-Hsu Tsai*, Jie-Yan Peng, Chih-Tsan Chang, Pao-Ta Yu, and Kuo-Ching Chiou, "[Applying an ebook tool with lecturing function and a game-based student response system in flipped classroom for a seminar course](#)," *in the proceedings of the 2016 International Symposium on Educational Technology (ISET 2016)*, 19-21 July, in Beijing, China (pp. 75-79). MOST 102-2511-S-194-005-MY3, MOST 102-2511-S-194-001-MY3 and MOST 104-2221-E-150-010
- [16] Cheng-Yu Tsai, Chih-Tsan Chang, Jenq-Muh Hsu, Hung-Hsu Tsai, Zhi-Cheng Dai and Pao-Ta Yu*, "[Toward a Highly Interactive Model of Flipped Learning](#)," *in the proceedings of International Conference on Hybrid Learning 2015*, Central China Normal University, Wuhan China, 27- 29 July 2015 (pp. 173-186).
- [17] Cheng-Yu Tsai, Hung-Hsu Tsai*, and Pao-Ta Yu, "Design of an eBook Software with Lecturing Function," *International Mobile Learning Festival 2015*, Hong Kong, SAR China, 21-23, May 2015. (MOST 103-2511-S-150-002)
- [18] Hung-Hsu Tsai*, Cheng-Yu Tsai, and Pao-Ta Yu, "A Flipped-Classroom Instructional Design

Using the ebook Software with Dual-Coding display for Learning Mathematics," *The Asian Conference on Sustainability, Energy and the Environment 2015*, Kobe, Japan, June 11-14, 2015. (MOST 103-2511-S-150-002)

- [19] Cheng-Yu Tsai, Jenq-Muh Hsu*, Hung-Hsu Tsai, Zhi-Cheng Dai, and Pao-Ta Yu, "A loosely-coupling hardware and software video compression for recording affordable MOOCs content with various scenes," *the 4th International Conference on Electronics, Communications and Networks*, Beijing ,China, Dec.12th-15th, 2014.
- [20] Cheng-Yu Tsai, Jenq-Muh Hsu*, Hung-Hsu Tsai, Pao-Ta Yu, and Wen-Feng Huang, "[A Mahjong-like Game of English Vocabulary Spelling](#)," *the seventh International Conference on Hybrid Learning (ICHL 2014)*, East China Normal University, Shanghai, China, 8-10, Aug. 2014. LNCS 8595, pp. 152-163, 2014.
- [21] Hung-Hsu Tsai*, Yen-Shou Lai, and Lin Yun-Jung, "Using handwriting with interactive whiteboard for learning mathematics in classroom," *17th Global Chinese Conference on Computers in Education (GCCCE 2013)*, Peking University, Beijing, China, May 27-31, 2013. (NSC 101-2511-S-150-003-)
- [22] Hung-Hsu Tsai* and Yen-Shou Lai, "Applying multiple intelligence theory and interactive whiteboard for mathematics learning," *2013 Fourth International Conference on Education and Sports Education (ESE 2013)*, *Education and Sports Education, Lecture Notes in Management Science*, vol. 11, pp. 89-94, April 11-12, Hong Kong, 2013. (NSC 101-2511-S-150-003-)
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