

國立東華大學教師個人基本資料表

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最高學歷/起迄：國立中山大學電機系計算機組博士

現職/起迄：國立東華大學資訊工程系教授 2008.8~迄今

到任年月份(東華)：2008.8

專長：
1. 數位學習
2. 機器學習
3. 嵌入式系統
4. 無線網路

黃振榮

Chenn-Jung Huang



■研究 (2011.1~2016.4)

- 注意事項：**
- (一) 請詳列五年內(此段期間曾懷孕及生產者，得延長至七年內)發表之學術性著作，包括：期刊論文、專書及專書論文、研討會論文、技術報告及其他等，並請依各類著作之重要性自行排列先後順序。
 - (二) 各類著作請按發表時間先後順序填寫。各項著作請務必依作者姓名(按原出版之次序，**通訊作者請加註***)、出版年、月份、題目、期刊名稱(專書出版社)、起迄頁數之順序填寫。
 - (三) 若期刊屬於 SCI、EI、SSCI 或 A&HCI 等時，請註明。

一、期刊論文：

1. **Huang, C. J.**, Chang, S. C., Chen, H. M., Tseng, J. H., and Chien, S. Y. (2016). *A group intelligence-based asynchronous argumentation learning-assistance platform*. Interactive Learning Environments, (ahead-of-print), 1-20. (SSCI) IF:1.323 (99-2511-S-259-008-MY3 and 102-2511-S-259-010-MY3)
2. **Huang, C.J.**, Hu, K. W., Chen, H.M., Liao, H.H., Tsai, H.W., and Chien, S. Y., (2016) *An intelligent energy management mechanism for electric vehicles*, Applied Artificial Intelligence. 30(2) 125–152 (SCI, EI) IF:0.527 (101-2622-E-259-001-CC3 and 102-2511-S-259-010-MY3)
3. **Huang, C.J.**, Chang, S. C., Chen, H.M., Tseng, J.H, and Chien, S. Y., (2016) *Supporting the development of synchronous text-based computer-mediated communication with an intelligent diagnosis tool*, Applied Soft Computing. 39 266–274 (SCI, EI) IF:2.81 (NSC 102-2511-S-259-010-MY3)
4. **Huang, C.J.**, Guan, C.T., Chen, H.M., Wang, Y.W., Chien, S. Y., Jian, J.J., and Liao, J.J., (2015) *A Self-Adaptive Joint Bandwidth Allocation Scheme for Heterogeneous Wireless Networks*, Applied Soft Computing. 37 156–165 (SCI, EI) IF:2.81 (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
5. **Huang, C.J.**, Chang, S. C., Guan, C.T., Wang, Y.W., Chen, H.M., Weng, C.H., and Chien, S. Y., (2015) *An adaptive live streaming mechanism for heterogeneous vehicular networks*, Applied Artificial Intelligence. 29(7) 637–659 (SCI, EI) IF:0.527

(NSC 102-2511-S-259-010-MY3)

6. **Huang, C.J.**, Chen, H.M., Chang, S.C., and Chien, S.Y., (2015) *Application of Social Computing to Collaborative Web Search*, Open Journal of Social Sciences. 3(9) 28-33. (NSC 102-2511-S-259-010-MY3)
7. **Huang, C.J.**, Chang, S.C., Guan, C.T., Chen, H.M., and Chien, S.Y., (2015) *An Intelligent Short-text Auto-marking Algorithm for Text-based Computer-mediated Communication*, Journal of Information Technology and Application in Education. 4 65-69. (NSC 102-2511-S-259-010-MY3)
8. **Huang, C.J.**, Chang, S.C., Chen, H.M., and Chien, S.Y., (2015) *An Intelligent Assessment Mechanism for Online Short Text*, International Journal of Automation and Control Engineering. 4(1) 22-25. (NSC 102-2511-S-259-010-MY3)
9. **Huang, C.J.**, Chang, S.C., Chen, H.M., Chen, C.Y., Tseng, J.H, and Chien, S.Y., (2015) *An Intelligent Assessment Mechanism of Asynchronous Discussion Posts*, International Journal of Computer and Communication Engineering. 4(1) 66-72. (NSC 99-2511-S-259-008-MY3 and NSC 102-2511-S-259-010-MY3)
10. **Huang, C.J.**, Hu, K.W., Wang, Y.W., Chen, H.M., Tasi, H.W., and Chien, S.Y., (2015) *An Adaptive Vehicle Path Planning System*, International Journal of Computer and Communication Engineering. 4(1) 50-56. (NSC 102-2511-S-259-010-MY3)
11. Chen, H.M., **Huang, C.J.**, Chen, Y.J., Chen, C.Y., and Chien, S.Y., (2015) *An Intelligent Nocturnal Animal Vocalization Recognition System*, International Journal of Computer and Communication Engineering. 4(1) 39-45. (NSC 102-2511-S-259-010-MY3 and 99A058)
12. **Huang, C.J.**, Hu, K.W., Chen, H.M., Wang, Y.W., Jui-Jiun Jian, J.J., and Chien, S.Y., (2015) *A SVR-Based Multimedia Streaming Dissemination System for Vehicular Networks*, International Journal of Computer and Communication Engineering. 4(1) 26-32. (NSC 102-2511-S-259-010-MY3)
13. **Huang, C.J.**, Chen, H.M., Wang, Y.W., Chien, S.Y. and Li, C.Y., (2014) *An Intelligent Infrared LED Based Prosthesis Training System*, Applied Artificial Intelligence. 28(9) 859–878 (SCI, EI) IF:0.795 (NSC 102-2511-S-259-010-MY3)
14. **Huang, C.J.**, Wang, Y.W., Chen, H.M., Tsai, H.W., Jian, J.J., Cheng, A.L., and Liao, J.J., (2014) *Application of Cellular Automata and Type-2 Fuzzy Logic to Dynamic Vehicle Path Planning*, Applied Soft Computing. 19 333–342 (SCI, EI) IF: 2.679 (NSC 99-2511-S-259-008-MY3 and 102-2511-S-259-010-MY3)
15. **Huang, C.J.**, Chen, Y.J., Chen, H.M., Jian, J.J., Tseng, S.C., Yang, Y.J., and Hsu, P.A., (2014) *Intelligent Feature Extraction and Classification of Anuran Vocalizations*, Applied Soft Computing. 19 1–7 (SCI, EI) IF: 2.679 (NSC 96-2628-E-259-022-MY3 and NSC 98-2220-E-259-003)
16. **Huang, C.J.**, Wang, Y.W., Chen, H.M., Cheng, A.L., Jian, J.J., Tsai, H.W., and Liao, J.J., (2013) *An adaptive multimedia streaming dissemination system for vehicular networks*, Applied Soft Computing. 13(12) 4508–4518 (SCI, EI) IF:2.679 (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
17. **Huang, C.J.**, Wang, Y.-W., Guan, C.T., Chen, H.M., and Jian, J.-J., (2013) *Applications of Machine Learning to Resource Management in Cloud Computing*, International Journal of Modeling and Optimization, 3(2) 148-152 (NSC 99-2511-S-

259-008-MY3 and 101-2622-E-259-001-CC3)

18. **Huang, C.J.**, Liao, H.H., Tsai, H.W., Hu, K.W., Chen, H.M., and Jian, J.-J., (2013) *A Load-Balancing Based Charging Management Mechanism for Electric Vehicles*, International Journal of Modeling and Optimization, 3(2) 216-220 (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
19. **Huang, C.J.**, Guan, C.T., Chen, H.M., Wang, Y.W., Chang, S.C., Li, C.Y., Weng, C.H., (2013) *An Adaptive Resource Management Scheme in Cloud Computing*, Engineering Applications of Artificial Intelligence. 26 382-389 (SCI, EI) IF:1.625 (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
20. **Huang, C.J.**, Chang, T.K., Shen, H.Y., Li, C.Y., Luo, Y.C., and Hu, K.W., (2012) *Application of Type-2 Fuzzy Logic to Rule-Based Intrusion Alert Correlation Detection*, International Journal of Innovative Computing, Information and Control. 8(4) 2865-2874 (SCI, EI) IF: 1.667 (NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002.)
21. **Huang, C.J.**, Chen, H.M., Lin, C.F., Liao, J.J., Hu, K.W., Yang, D.X., Chen, C.H., and Chuang, Y.T., (2012) *A Scalable Routing for Delay-Tolerant Heterogeneous Networks*, International Journal of Innovative Computing, Information and Control. 8(1A) 49-60 (SCI, EI) IF:1.667 (NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002)
22. **Huang, C.J.**, Liao, J.J., Shen, H.Y., Aye N.N., Wang, Y.W., Chen, H.X., Yang, D.X., Luo, Y.C., and Chuang, Y.T., (2011) *Using Learning Style Based Diagnosis Tool to Enhance Collaborative Learning in an Undergraduate Engineering Curriculum*, Computer Applications in Engineering Education. 19(4) 739-746 (SCI, EI) IF:0.388 (NSC 96-2628-E-259-022-MY3 and NSC 97-2218-E-259-005)
23. **Huang, C.J.**, Li, C.Y., Chen, Y.T., Lee, C.Y., Liao, J.J., Chang, C.H., Chen, I.F., Hu, K.W., Chen, H.X., and Chen, Y.J., (2011) *Intelligent Resource Management Schemes for Heterogeneous Wireless Networks*, International Journal of Innovative Computing, Information and Control. 7(8) 4765-4778 (SCI, EI) IF: 1.667 (NSC 96-2628-E-026-001-MY3 and NSC 98-2220-E-259-003)
24. **Huang, C.J.**, Wang, Y.W., Huang, T.H., Chen, Y.C., Chen, H.M., Chang, S.C., (2011) *Performance Evaluation of an Online Argumentation Learning Assistance Agent*, Computers & Education. 57(1) 1270-1280 (SSCI, SCI, EI) IF: 2.059 (NSC 96-2628-E-259-022-MY3 and NSC 98-2220-E-259-003)
25. **Huang, C.J.**, Wang, Y.W., Lin, C.F., Chen, Y.T., Chen, H.M., Shen, H.Y., Chen, Y.J., Chen, I.F., Hu, K.W. and Yang, D.X., (2011) *A Self-Healing Clustering Algorithm for Underwater Sensor Networks*, Cluster Computing-The Journal of Networks Software Tools and Applications 14(1) (SCI, EI) IF:0.695 (NSC 96-2628-E-259-022-MY3 and NSC 98-2220-E-259-003)
26. **Huang, C.J.**, Wang, Y.W., Huang T.H., Lin, C.F., Li, C.Y., Chen, H.M., Chen, P.C., Liao J.J., (2011) *Applications of Machine Learning Techniques to a Sensor-Network-Based Prosthesis Training System*, Applied Soft Computing. 11(3) 3229-3237 (SCI, EI) IF:2.415 (NSC 96-2628-E-259-022-MY3 and NSC 98-2220-E-259-003)
27. **Huang, C.J.**, Wang, Y.W., Lin, C.F., Liao, H.H., Li, C.Y., Hu, K.W., Chang, T.Y., and Shen, H.Y., (2011) *A Power-Efficient Routing Protocol for Underwater Wireless Sensor Networks*, Applied Soft Computing, 11(2) 2348–2355. (SCI, EI) IF: 2.415

(NSC 96-2628-E-259-022-MY3 and NSC 98-2220-E-259-003)

28. **Huang, C.J.**, Lin, C.F., Li, C.Y., Lee, C.Y., Chen, H.M., Shen, H.Y., Chen, Y.J., and Chen, I.F., (2011) *Service-oriented routing and clustering strategies for vehicle infotainment dissemination*, International Journal of Innovative Computing, Information and Control, 7(3) 1467–1479. (SCI, EI) IF:1.667 (NSC 96-2628-E-026-001-MY3 and NSC 98-2220-E-259-003)

二、研討會論文：

1. **Huang, C.J.**, Guan, C.T., and Chen, H.M., (2016) *A Prediction Based Bandwidth Reservation Scheme for Heterogeneous Wireless Networks*, The IRES-51st International Conference on Science, Technology and Management, April 2016. (NSC 102-2511-S-259-010-MY3)
2. **Huang, C.J.**, Chen, H.M., Chang, S.C., and Tsai, T.A., (2015) *Application of social computing to collaborative online learning resource recommender system*, 2015 International Conference on Education and E-Learning, Nov. 2015. (NSC 102-2511-S-259-010-MY3)
3. **黃振榮**，張舜治，蔡璨安，林子傑，蔡翰文(民 104):適用於多媒體數位學習的學習路徑追蹤系統，2015 數位科技與創新管理研討會。(NSC 102-2511-S-259-010-MY3)
4. **Huang, C.J.**, Guan, C.T., Chen, H.M., Hu, K.W., and Chien, S.Y., (2014) *A Handoff Probability Prediction Based Resource Management Scheme for LTE Femtocells*, 2014 International Computer Symposium, Dec. 2014. (NSC 102-2511-S-259-010-MY3)
5. **Huang, C.J.**, Chang, S.C., Chen, H.M., and Chen, C.Y., (2014) *Performance Evaluation of an Intelligent Multimedia Learning Assistant Platform*, 44th Annual Frontiers in Education Conference, Oct. 2014. (NSC 102-2511-S-259-010-MY3)
6. **Huang, C.J.**, Wang, Y.-W., Chen, C.Y., Chen, H.M., and Chen, Y.J., (2014) *A cluster-based routing algorithm for vehicle infotainment dissemination*, 2014 International Conference on Management and Engineering, May 2014. (NSC 102-2511-S-259-010-MY3)
7. Chen, H.M., **Huang, C.J.**, Chen, Y.J., Yang, Y.J., Chen, C.Y., and Chen, Y.T., (2014) *Application of Fuzzy Lattice Reasoning to Nocturnal Animal Vocalization Recognition*, 2014 International Conference on Electrical Engineering and Information Technology, Mar. 2014. (NSC 102-2511-S-259-010-MY3)
8. Wang, Y.-W., **Huang, C.J.**, Chen, H.M., Chen, C.Y., and Weng, C.H., (2014) *Application of fuzzy logic to multimedia streaming dissemination system for vehicular networks*, 2014 IAENG International Conference on Data Mining and Applications, Mar. 2014. (NSC 99-2511-S-259-008-MY3 and 102-2511-S-259-010-MY3)
9. **Huang, C.J.**, Chang, S.-C., Chen, H.M., Jian, J.-J., Wang, Y.-W., and Tseng, J.H., (2013) *Applications of data mining to an asynchronous argumentation based learning assistance platform*, 2013 International Conference on Cyber-enabled distributed computing and knowledge discovery, Oct. 2013. (NSC 99-2511-S-259-008-MY3 and 102-2511-S-259-010-MY3)
10. **Huang, C.J.**, Wang, Y.-W., Guan, C.T., Chen, H.M., and Jian, J.-J., (2013) *Applications of Machine Learning to Resource Management in Cloud Computing*, The 2nd International Conference on System Engineering and Modeling, Apr. 2013.

(NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)

11. **Huang, C.J.**, Liao, H.H., Tsai, H.W., Hu, K.W., Chen, H.M., and Jian, J.-J., (2013) *A Load-Balancing Based Charging Management Mechanism for Electric Vehicles*, The 2nd International Conference on System Engineering and Modeling, Apr. 2013. (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
12. **Huang, C.J.**, Wang, Y.-W., Chang, S.-C., Lin, S.Y., Tseng, J.H., and Jian, J.-J., (2012) *Applications of data mining to an online argumentation based learning assistance platform*, The 6th International Conference on Soft Computing and Intelligent Systems, Nov. 2012. (NSC 99-2511-S-259-008-MY3 and 101-2622-E-259-001-CC3)
13. **Huang, C.J.**, Jian, J.-J., Chen, H.M., Wang, Y.-W., and Weng, C.-H., (2012) *A seamless multimedia streaming dissemination system for vehicular networks*, The 2nd International Conference on Electronics, Communications and Control, Oct. 2012.
14. **Huang, C.J.**, Jian, J.-J., Chen, H.M., Chen, Y.-J. and Chen, I.-F., (2012) *Load-Balancing Routing and Clustering Strategies for Vehicle Infotainment Dissemination*, The 2nd International Conference on Electronics, Communications and Control, Oct. 2012.
15. **黃振榮**，辛孟鋁，薛文魁(民 100)：車載網路上的無縫串流機制，2011 創意教學與研究成果研討會(NSC99-2220-E-259-002)。
16. **Huang, C.J.**, Lin, C.F., Hsu, P.A., Lee, Y.W., Chen, H.M., Lien, Y.J., Li, C.Y., Yang, Y.J., Liao, J.J., and Chen, Y.J., (2011) *Application of Fast Learning Neural-Networks to Identification of Mixed Anuran Vocalizations*, 2011 The 13th IEEE Joint International Computer Science and Information Technology Conference, Aug. 2011 . (NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002)
17. **Huang, C.J.**, Chen, H.M., Huang, T.H., Lin, C.F., Chen, Y.T., Lien, Y.J., Wang, Y.W., Chen, Y.J., Chen, I.F., Shen, H.Y., Huang, H.Y., (2011) *A Prediction-Based Joint Bandwidth Allocation Scheme for Heterogeneous Wireless Networks*, 2011 IEEE International Conference on Information and Automation, Jun. 2011 . (NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002)
18. **黃振榮**，李昱緯，蔡柏彥，王宇武，陳恆鳴，曾聖傑，廖家健，沈宏彥(民 100)：適用於車載網路之適化性無縫串流傳播系統，2011 智慧型數位生活研討會。(NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002)
19. **黃振榮**，連逸傑，林志昇，李哲宇，關智太，曾聖傑(民 100)：應用股票市場技術分析及撮合機制於雲端計算之資源配置，2011 電子商務與數位生活研討會。(NSC 99-2511-S-259-008-MY3 and 99-2220-E-259-002)

三、五年內之研究計畫 (2011.1~2016.4)：

起迄年月	研究計畫名稱	主持人/共同主持人	計畫經費	補助單位
97.8~100.7	區塊研究：以學習者為中心的科學教師專業成長之研究－國小及幼教自然科教師科學教學專業知能發展線上學習系統建構與推廣應用(97-2511-S-259-007-MY3)	共同主持人	3,719,000	國科會
99.8~100.9	夜行性動物聲音收錄與辨識系統	主持人	730,000	林務局
99.8~100.7	適用於車載網路之適性化無縫串流傳播系統(99-2220-E-259-002-)	主持人	722,000	國科會
99.8~102.7	智慧型線上論證與概念構圖學習輔助系統(99-2511-S-259-008-MY3)	主持人	2,093,000	國科會
99.8~100.7	共護台灣蛙蛙世界(99-2631-H-259-002-)	共同主持人	1,429,000	國科會
99.12~100.9	系統安全保證及反駁客控制環境建置與雲端資訊安全機制研發計畫(II)(99-2218-E-492-006-)	共同主持人	40,462,000	國科會
100.8~101.12	共護台灣蛙蛙世界(II)(100-2631-H-259-002-)	共同主持人	1,363,000	國科會
99.12~100.5	智慧型食品品質控管專家系統	專家	72,000	經濟部技術處
100.3~100.8	智慧型烘培食品生產流程稽核系統	專家	72,000	經濟部技術處
100.8~100.12	智慧型石板裂痕偵測暨修補系統	專家	72,000	經濟部技術處
100.8~100.12	原石內部缺陷偵測與石材規格自動量測機制	專家	72,000	經濟部技術處
100.10~101.3	智慧型食品品質控管專家系統	主持人	650,000	德久食品
101.5~101.10	木料切割最佳化與廢材利用建議機制	專家	72,000	經濟部
101.6~102.5	基於電力負載平衡的電動車輛充電服務整合系統(101-2622-E-259-001-CC3)	主持人	498,000	國科會
102.8~105.7	智慧型網路多媒體與線上論證學習輔助系統(102-2511-S-259-010-MY3)	主持人	2,479,000	科技部



■ 教學 (2013.8~2016.7)

四、三年內開授課程：

學年度	課程名稱(必/選)	學分數	選修人數
102	智慧型系統設計	3	14
	智慧型數位學習	3	19
103	計算機概論	3	55
	數位學習系統發展與應用	3	7
104	計算機概論	3	73
	網際網路通訊協定	3	41
	柔性計算系統實務	3	43

九、專業學術服務工作項目：

年	校內/校外	項目
2011	校外	Applied Soft Computing 論文審查委員, Engineering Applications of Artificial Intelligence 論文審查委員, Computer Applications in Engineering Education 論文審查委員, SAIEE Africa Research Journal 論文審查委員, Computer communications 論文審查委員
2012	校外	Computer Applications in Engineering Education 論文審查委員, IEEE Transactions on Systems, Man, and Cybernetics--Part B: Cybernetics 論文審查委員, IEEE Transactions on Wireless Communications 論文審查委員, International Journal of Computers and Applications 論文審查委員, International Journal of Engineering Science and Technology 論文審查委員, Sensors 論文審查委員, Transportation Research Part C 論文審查委員.
2013	校外	Applied Soft Computing 論文審查委員, Engineering Applications of Artificial Intelligence 論文審查委員, IEEE Transactions on Mobile Computing 論文審查委員, IEEE JSAC Special Issue on VCN 論文審查委員, Information Sciences 論文審查委員, International Journal of Communication Systems 論文審查委員, International Journal of Computers and Applications 論文審查委員, Journal of Network and Computer Applications 論文審查委員, Sensors 論文審查委員
2014	校外	Computers & Education 論文審查委員, Applied Soft Computing 論文審查委員, Engineering Applications of Artificial Intelligence 論文審查委員, Sensors 論文審查委員, Information Sciences 論文審查委員, IEEE Trans. Vehicular Technology 論文審查委員, IEEE Trans. Wireless Communications 論文審查委員, IEEE Trans. Mobile Computing 論文審查委員
2015	校外	Computers & Education 論文審查委員, Applied Soft Computing 論文審查委員, IEEE Access 論文審查委員, Sensors 論文審查委員, Computer Applications in Engineering Education 論文審查委員, Engineering Applications of Artificial Intelligence 論文審查委員, IEEE Trans. Wireless Communications 論文審查委員, IEEE Trans. Mobile Computing 論文審查委員, China Communications 論文審查委員, Applied Mathematical Modelling 論文審查委員

以上資料屬實。填表人簽名：_____（電子檔免填），填表日期：_____。