

## **Publications**

### (A) Journal Paper

- A1. **Yen-Hung Chen\***, Yuan-Cheng Lai, Ching-Neng Lai, and Yang-Chi Li, "A group bandwidth reservation scheme to enhance the driver's safety in vehicles and transport environment," Computer Journal (ISSN: 0010-4620), vol. 60, no. 2, 2017. **(SCIE, 5-year IF=0.930, Category: COMPUTER SCIENCE, THEORY & METHODS - SCIE)**
- A2. Ching-Neng Lai\* and **Yen-Hung Chen**, "Retransmission Mechanism for Partially Reliable Transport Protocols Based on Multimedia Applications Transmission," Journal of Advances in Computer Networks (ISSN: 1793-8244), vol. 3, no. 4, 2016, pp. 255-261. DOI: 10.18178/JACN.2015.3.4.178.
- A3. Ching-Neng Lai\* and **Yen-Hung Chen**, "A Downlink Burst Construction Algorithm in WiMAX 2 Networks," International Journal of Electronics and Electrical Engineering (ISSN: 2301-380X), vol. 4, no. 4, 2016. (<http://www.ijeee.net/index.php?m=content&c=index&a=show&catid=63&id=306>)
- A4. Jian-Wei Lin\*, Yuan-Cheng Lai, Yu-Chin Szu, Ching-Neng Lai, Yuh-Shy Chuang, **Yen-Hung Chen**, "Development and Evaluation of A Cross-unit Diagnostic Feedback Mechanism for Online Learning," Educational Technology & Society (ISSN: 1436-4522), Volume 17, Issue 3, 2014. **(SSCI, 5-year IF=2.034, Category: EDUCATION & EDUCATIONAL RESEARCH - SSCI)**
- A5. Yi-Hsuan Yeh, Yuan-Cheng Lai, **Yen-Hung Chen\***, and Ching-Neng Lai, "A bandwidth allocation algorithm with channel quality and qoS aware for IEEE 802.16 base stations," International Journal of Communication Systems (ISSN: 1074-5351), vol. 27, no. 10, 2014. DOI: 10.1002/dac.2422. **(SCIE, 5-year IF=1.526, Category: TELECOMMUNICATIONS - SCIE)**
- A6. Ching-Neng Lai\*, Yuan-Cheng Lai, **Yen-Hung Chen**, Jian-Wei Lin, and Yu-Chin Szu, "A Timeliness-Aware Retransmission Mechanism for Partially Reliable Transport Protocols to Enhance Performance of Multimedia Applications," Journal of Internet Technology (ISSN: 1607-9264), vol. 14, no. 7, Dec. 2013, pp. 1073-1082. **(SCIE, 5-year IF=1.061, Category: TELECOMMUNICATIONS - SCIE)**
- A7. Yuan-Cheng Lai and **Yen-Hung Chen\***, "A best block exploring algorithm for two-dimensional downlink burst construction in IEEE 802.16 networks," Journal of Network and Computer Applications (ISSN: 1084-8045), vol. 35, no. 6, Nov. 2012, pp. 2092-2104. DOI: 10.1016/j.jnca.2012.08.012. **(SCIE, 5-year IF=3.492, Category: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE)**
- A8. Yuan-Cheng Lai\* and **Yen-Hung Chen**, "Heuristic algorithms for two-dimensional uplink burst construction in IEEE 802.16 networks," Computer Standards & Interfaces (ISSN: 0920-5489), vol. 34, no. 1, Jan. 2012, pp. 68-79, DOI: 10.1016/j.csi.2011.05.008. **(SCIE, 5 year IF=1.524, Category:**

## COMPUTER SCIENCE, SOFTWARE ENGINEERING - SCIE)

- A9. Yuan-Cheng Lai and Yen-Hung Chen\*, "Two-Dimensional Downlink Burst Construction in IEEE 802.16 Networks," EURASIP Journal on Wireless Communications and Networking (ISSN: 1687-1499), vol. 2011:173, Nov. 2011, DOI: 10.1186/1687-1499-2011-173. (SCIE, 5 year IF=1.558, Category: TELECOMMUNICATIONS - SCIE)

### (B) Conference Paper

- B1. Yen-Hung Chen, Pi-Tzong Jan, Lin-Kung Chen, Jin Wang, Yu-Chin Szu, and Ching-Neng Lai, "Understanding perceived telecommunication service quality discrepancies between service providers and customers: Case of telecommunication service in China," Proceeding of 2016 6th International Workshop on Computer Science and Engineering (WCSE 2016), Tokyo, Japan, June 17-19, 2016. (EI)
- B2. Yen-Hung Chen, Yuan-Cheng Lai, Ching-Neng Lai, Pi-Tzong Jan, "Modeling Machine to Machine Vehicular Safety Communication," Proceeding of 19th International Conference on Circuits, Systems, Communications and Computers, (CSCC 2015), Zakynthos Island, Greece, July 16-20, 2015.
- B3. Yen-Hung Chen, Ching-Neng Lai, Yuan-Cheng Lai, Yang-Chi Li, "A Group Bandwidth Reservation Scheme for the Control Channel in IEEE 802.11p/1609 Networks," WASA 2015: Wireless Algorithms, Systems, and Applications, China, 2015. (EI)
- B4. 賴源正、黃淑容、陳韋如、陳彥宏、馮壽元、林榮輝，下一代臺灣電子發票系統載具之評估與開發，TANET 2013，臺灣台中市，2013。
- B5. Yuan-Cheng Lai, Shu-Rong Huang, Wei-Ru Chen, Yen-Hung Chen, Show-Yuan Fong, and Jung-Hui Lin, "The next generation carrier for Taiwan E-Invoice system," International Symposium on Information Science and Information Management (IS&IM 2013), Thailand, 2013.
- B6. Yuan-Cheng Lai, Yo-Hsuan Chuang, Jen-Wen Ding, Yen-Hung Chen, "A Buffer-based IP Passing Protocol for Reducing IP Address Acquisition Latency in VANETs," the 9th IEEE Vehicular Technology Society Asia Pacific Wireless Communications (IEEE VTS APWCS 2012), Kyoto, Japan, Aug. 23-24, 2012.
- B7. Yuan-Cheng Lai, Yen-Hung Chen, and Ching-Neng Lai, "A Channel Quality Aware Algorithm for IEEE 802.16 Uplink Burst Construction," IEEE 26th International Conference on Advanced Information Networking and Applications (AINA-2012), Fukuoka, Japan, 2012, pp. 207-214. (EI)
- B8. Sheng-Chi Huang, Ling-Yen Hsiao, Yen-Hung Chen, and Yuan-Cheng Lai, "A Traveling Navigation System with QR Code and GPS in Smart Phone," TANET 2009, Changhua, Taiwan, October 2009.
- B9. Yuan-Cheng Lai and Yen-Hung Chen, "Designing and Implementing an IEEE 802.16 Network Simulator for Performance Evaluation of Bandwidth Allocation Algorithms," High Performance Computing and Communications, South Korea, pp.432-437, 2009. (EI)

- B10. Yuan-Cheng Lai, **Yen-Hung Chen**, and Cheng-Lung Wu, "WiMAX Network Performance Analyzing System," TANET 2008, Kaohsiung, Taiwan, 2008.
- B11. Yuan-Cheng Lai and **Yen-Hung Chen**, "A Channel Quality and QoS Aware Bandwidth Allocation Algorithm for IEEE 802.16 Base Stations," IEEE 22nd International Conference on Advanced Information Networking and Applications (AINA), Okinawa, Japan, March 2008. (EI)
- B12. Yuan-Cheng Lai, **Yen-Hung Chen**, and Chih-Chung Lin, "Wireless Packet Management and Analyzing System," TANET 2006, Hualien, Taiwan, November 2006.
- B13. Yuan-Cheng Lai, Pi-Chuan Liu, and **Yen-Hung Chen**, "An IPv6 Packet Monitoring and Analyzing System," ICOS 2005, Taipei, Taiwan, November 2005.

(C) Book/Chapter

- C1. **Yen-Hung Chen**, Ching-Neng Lai, Yuan-Cheng Lai, Yang-Chi Li, "A Group Bandwidth Reservation Scheme for the Control Channel in IEEE 802.11p/1609 Networks," Lecture Notes in Computer Science (ISSN: 0302-9743), Vol. 9204, 2015, pp 40-49. DOI 10.1007/978-3-319-21837-3\_5. (EI)

(D) Tech. Report

- D1. 行政院-加速行動寬頻服務及產業發展方案, 行政院, 2014.  
< <http://www.bost.ey.gov.tw/cp.aspx?n=471BF3A523D05BB2> >
- D2. 行政院 5G 發展產業策略會議-重要結論、處理原則暨推動措施, 行政院, 2014.  
< <http://www.bost.ey.gov.tw/cp.aspx?n=6A5498C4F751D2E4> >
- D3. 我國 5G 發展藍圖, 行政院科技會報辦公室, 2015.
- D4. 2014 年我國頻譜政策研究報告, 行政院科技會報辦公室, 2014.
- D5. 2015 年我國頻譜政策研究報告, 行政院科技會報辦公室, 2015.
- 5G 新興應用服務之頻譜需求與規劃研究報告, 行政院科技會報辦公室, 2016.