

國立宜蘭大學教師個人基本資料表

聯絡電話：03-9357400 ext. 251

E-mail：hcc@niu.edu.tw

最高學歷/起迄：美國普渡大學電機博士(1989-1993)

現職/起迄：國立宜蘭大學電子工程學系教授 (2005.8~)

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研究領域：IPv6, Mobile Computing, Broadband Network Protocols, Digital Arts Technology

趙涵捷

Han-Chieh Chao



研究

近五年研究成果 (1999.8~2006.7)

一、期刊論文：

(若期刊屬於 SCI、EI、SSCI、TSSCI、EconLit 或 A&HCI 等時，請註明)

- [1] Han-Chieh Chao, R. C. Wang and J. L. Chen “*The Novel Network Topology Based Domain Name Service with Mobile Computing Consideration*” Journal of Microcomputer Applications (JMA is now renamed as Journal of Network and Computer Applications), pp. 128-135, Vol. 18, No. 3, 1999. **(SCI, Impact Factor=0.273)**
- [2] Han-Chieh Chao, Weiming Chen, C. Y. Lin, J. L. Chen and S. F. Lin “*Variable-rate Hierarchical Vector Quantization with Variance Classification*” International Journal of Imaging Systems & Technology, pp. 138-143, Vol. 11, No. 2, 2000. **(SCI, Impact Factor=0.269)**
- [3] Han-Chieh Chao, Y. M. Chu, and M. T. Lin “*The Implication of the Next-Generation Wireless Network Design: Cellular Mobile IPv6*” IEEE Transactions on Consumer Electronics, pp. 656-663, Vol. 46, Number 3, August 2000. **(SCI, Impact Factor=0.423)**.
- [4] T. G. Tsuei, C. H. Ting, and H. C. Chao “*Laws of Computing: a View from Forth*” pp. 59-65, Vol. 1, Number 2, December 2000, Journal of Internet Technology. **(EI)**
- [5] J. L. Chen, and H. C. Chao, “*Resource Sharing Scheme for Cellular Date Services with Differentiated QoS,*” IEICE Transactions on Communications, pp. 2545-2549, Vol. E83-B, No. 11, November 2000. **(SCI, Impact Factor=0.330)**
- [6] Han-Chieh Chao, J. Y. Hong, and J. L. Chen “*Channel Assignment Schemes for WDM-based Personal Communication Network*” International Journal of Computers and Applications, pp. 30-34, Vol. 23, No. 1, 2001. **(EI)**
- [7] J. L. Chen, J. H. Gong and H. C. Chao, “*Resource Reservation with Mobile Hosts Using Fuzzy Matrices,*” Computer Communications, pp. 434-444, Vol. 24, 2001. **(SCI, Impact Factor= 0.574)**
- [8] H. C. Chao, T. Y. Wu, and J. L. Chen “*Security Enhanced Packet Video with Dynamic Multicast Throughput Adjustment*” International Journal of Network

- Management (Publications by ACM-Affiliated Organizations), pp. 147-159, Vol. 11, No. 3, May/June 2001. **(EI)**
- [9] J. L. Chen and H. C. Chao “*Fair Resource Sharing Scheduling for Cellular Data Services with QoS Provisioning*” IEE Proceedings – Communications, pp. 144-148, Vol. 148, No. 3, June 2001. **(SCI, Impact Factor=0.195)**
- [10] J. L. Chen, H. C. Cheng, and H. C. Chao “*Scheduling Disciplines in Cellular Data Services with Probabilistic Location Errors,*” Lecture Notes in Computer Science, Vol. 2093, pp. 307-316, Springer, July 2001. **(SCI, Impact Factor=0.513)**
- [11] H. C. Chao, S. W. Chang, and J. L. Chen, “*Throughput Improvements using the Random Leader Technique for the Reliable Multicast Wireless LANs,*” Lecture Notes in Computer Science, Vol. 2093, pp. 708-719, Springer, July 2001. **(SCI, Impact Factor=0.513)**
- [12] Han-Chieh Chao, and Y. M. Chu “*Seamless Supports for the Mobile Internet Protocol Based Cellular Environments*” International Journal of Wireless Information Networks, pp. 133-153, Vol. 8, No. 3, July 2001. **(EI)**
- [13] Han-Chieh Chao, Y. C. Chen, and J. L. Chen “*Interoperability of EFCI and ERICA ATM Switches for ABR Services with VSVD Enhancements*” Computers & Electrical Engineering, pp. 355-366, Vol. 27, September 2001. **(SCI, Impact Factor=0.210)**
- [14] H. C. Chao, Y. M. Chu and T. G. Tsuei, “*Codec Schemes Selection for Wireless Voice over IP (VoIP)*” Lecture Notes in Computer Science, Vol. 2195, pp. 622-629, Springer, October 2001. **(SCI, Impact Factor=0.513)**
- [15] Han-Chieh Chao, R. C. Wang, and J. Y. Hong “*Channel Assignment Schemes for SCM/WDM-based Personal Communication Network*” Wireless Communications and Mobile Computing, Vol. 1, No. 4, pp. 407-417, 2001. **(SCI, Impact Factor=0.669)**
- [16] Han-Chieh Chao, C. C. Ong, M. Kao, Weiming Chen, and J. L. Chen “*A Scalable Proxy Server System with High Hit Rate and Mirror Effect Free for Multimedia Applications*” Journal of Applied Systems Studies, Vol. 2, No. 3, 2001. **(SCIE)**
- [17] Han-Chieh Chao “*An Overview and Analysis of Mobile Internet Protocols in Cellular Environments*” Journal of Internet Research, Vol. 11, No. 5, pp. 435-450, 2001. (JIR is now renamed as Internet Research-Electronic Networking Applications and Policy) **(SCI, Impact Factor=0.562)**
- [18] J.L. Chen, S.P. Kao, and H.C. Chao, “Quality of Service for Multimedia CDMA,” FET Labs Journal, pp.124-135, Dec. 2001.
- [19] Han-Chieh Chao, C. L. Hung and T. G. Tsuei “*ECVBA Traffic Smoothing Scheme for VBR Media Streams*” International Journal of Network Management (Publications by ACM-Affiliated Organizations), Vol. 12, No. 3, pp. 179-185, May 2002. **(EI)**
- [20] T. G. Tsuei, J. L. Chen, and H. C. Chao “*Neuron-Based Wavelength Assignment for OWDM Service Systems*” Computers & Electrical Engineering, Vol. 28, No. 5, pp. 323-334, May 2002. **(SCI, Impact Factor=0.210)**
- [21] Han-Chieh Chao, Weimin Chen, and Y. M. Chu “*A Low Latency Handoff Algorithm for Voice over IP traffics in the Packet-Based Cellular Networks: Cellular Mobile IPv6*” Wireless Personal Communications, Vol. 23, Issue 3, pp. 353-378, December 2002. **(SCI, Impact Factor=0.243)**
- [22] Han-Chieh Chao, Ching-Rong Lai, and J. L. Chen “*A Distributed Multicast Tree Using Share Link Migration Scheme for Wireless ATM Network*” Computers and Electrical Engineering, Vol. 29, No. 3, pp. 395-406, May 2003. **(SCI, Impact Factor=0.21)**
- [23] Chih-Yang Sung , Han-Chieh Chao, and C. L. Wang “*A Load-sharing Algorithm for 802.11 MAC Protocol Using Connection Monitor Mechanism*” Journal of

- Internet Technology, Volume 4, No. 2, pp. 127-134, May 2003. **(EI)**
- [24] Tin-Yu Wu, Kai-Ming Liu, C. L. Chiang, Han-Chieh Chao “A Relay Ad-Hoc Mechanism for Incapable Nodes within a CDMA Based IPv6 Network” Asian Journal of Information Technology (AJIT), Volume 2, No. 3, pp. 210-215, 2003.
- [25] Han-Chieh Chao, T. G. Tsuei, and Chih-Hung Ying “IPv6-GSM: An IPv6-based Solution for GSM Number Portability” International Journal of Network Management (Publications by ACM-Affiliated Organizations), Vol. 13, No. 5, pp. 349-357, September 2003. **(EI)**.
- [26] Han-Chieh Chao, and Ching-Yang Huang “A Micro Mobility Mechanism for Smooth Handoffs in an Integrated Ad-Hoc and Cellular IPv6 Network under High Speed Movement” IEEE Transactions on Vehicular Technology, Vol. 52, No. 6, pp. 1576-1593, November 2003. **(SCI, Impact Factor=0.611)**
- [27] Han-Chieh Chao, and Y. M. Chu “An Architecture and Communication Protocol for IPv6 Packet-Based Picocellular Networks” Mobile Networks and Applications, Vol. 8, No. 6, pp. 663-674, December 2003. (Publications by ACM-Affiliated Organizations), ACM Press. **(SCI, Impact Factor=0.931)**
- [28] Wen Lung Shian, Han-Chieh Chao, and Ping-Yu Hsu “Migration to Next Generation Internet: A Survey of Enterprises”, Journal of Internet Technology, Vol. 2, No. 5, pp. 115-122, April 2004. **(EI)**
- [29] Yao-Chung Chang, Reen-Cheng Wang, Han-Chieh Chao, and Jiann-Liang Chen “Performance Investigation of IPv4/IPv6 Transition Mechanisms”, Journal of Internet Technology, Vol. 5, No. 2, pp. 163-170, April 2004. **(EI)**
- [30] T. Y. Wu, Chia-Chang Hsu, and Han-Chieh Chao “IPv6 Home Network Domain Name Auto-configuration for Intelligent Appliances” IEEE Transactions on Consumer Electronics, Vol. 50, No. 2, pp. 491-497, May 2004. **(SCI, Impact Factor=0.423)**
- [31] Yao-Chung Chang, M.T. Lin, Han-Chieh Chao, and Jiann-Liang Chen “Bluetooth Scatternet Using an Ad Hoc Bridge Node Routing Protocol for Outdoor Distance Education”, the International Journal of Distance Education Technologies, Vol. 2, No. 3, pp. 36-46, July 2004. **(EI)**
- [32] R. C. Wang, R. Y. Chen, and Han-Chieh Chao “AAA Architecture for Mobile IPv6 based on WLAN”, International Journal of Network Management, Volume 14, Issue 5, Page 305-313, September 2004. (Publications by ACM-Affiliated Organizations) **(EI)**
- [33] Chung-Sheng Li, T. G. Tsuei, and Han-Chieh Chao, “Evaluation of contention-based EDCA for IEEE 802.11e Wireless LAN” Journal of Internet Technology, pp. 429-434, Vol.5 No.4 Oct. 2004. **(EI)**
- [34] Tin- Yu Wu, Kun-Chang Chen, Han-Chieh Chao and Tak-Goa Tsuei, “IP Home Network Multimedia Application over IEEE 1394” WSEAS Transactions on Computer, pp. 1384-1389, Issue 5, Vol. 4, November 2004. **(EI)**
- [35] Tin-Yu Wu, Han-Chieh Chao, and Ching-Yang Huang “A Survey of Mobile IP in Cellular and Mobile Ad-Hoc Network Environments”, Ad Hoc Networks Journal, Volume 3, Number 3, pp. 351-370, May 2005. **(EI)**
- [36] Yun-Sheng Yen, Weimin Chen, Jia-Cheng Zhhuang and Han-Chieh Chao “A Novel Sliding Weighted Fair Queueing Scheme for Real-time Applications” IEE Proceedings – Communications, pp. 320-326, Vol. 152, No. 3, June 2005. **(SCI, Impact Factor=0.195)**
- [37] Wen-Lung Shiau, Han-Chieh Chao, and Ping-Yu Hsu “Obstacles of Enterprises Moving towards the Next Generation Internet” International Journal of Internet Protocol Technology, pp. 34-39, Vol. 1, No. 1, 2005..
- [38] Yun-Sheng Yen, Fred Lin, and Han-Chieh Chao “Integrated Residential Gateway: Easy IA Management with P2P Community Using RFID” IEEE Transactions on

- Consumer Electronics, pp. 824-830, Volume 51, Issue 3, August 2005. **(SCI, Impact Factor=0.423)**
- [39] Chi-Yuan Chang, Wei-Ming Chen, Han-Chieh Chao, T. G. Tsuei and Hong Bin Liu, “*IP Layer Load-Balance Using Fuzzy Logic under IPv6 Anycast Mechanism*” , International Journal of Network Management, Volume 15, Issue 5, Page 311-319, September 2005. (Publications by ACM-Affiliated Organizations) **(EI)**
- [40] Yao-Chung Chang, Jiann-Liang Chen, Han-Chieh Chao and Sy-Yen Kuo, “*OSA-based Service Platform for All-IPv6 Network Environments*” IEEE Journal on Selected Areas of Communications, Vol. 23, Issue 11, pp. 2172 - 2181, Nov. 2005 **(SCI, Impact Factor=2.64)**
- [41] Tin-Yu Wu , Han-Chieh Chao, Tak-Goa Tsuei and Yu-Feng Li, “*A Measurement Study of Network Efficiency for TWAREN IPv6 Backbone*” International Journal of Network Management, Volume 15, Issue 6, Page 411-419, November 2005. (Publications by ACM-Affiliated Organizations) **(EI)**
- [42] Tin-Yu Wu, Cheng-Chia Lai, and Han-Chieh Chao “*The Efficient IEEE 802.11 Handoff Based on a Novel Geographical Fingerprint Scheme*” Wireless Communications and Mobile Computing, Volume 6, Issue 1, Page 127-135, February 2006. **(SCI, Impact Factor=0.669)**
- [43] Yun-Sheng Yen, Yi-Kung Chan, Yuh-Ching Liaw, Han-Chieh Chao “*Energy-Aware QoS Multicast Routing Protocol based on Genetic Algorithm for the Mobile Ad Hoc Networks*” Journal of Internet Technology, Volume 7, Issue 2, Page 131-137, April 2006. **(EI)**
- [44] Ting-Yun Chi and Han-Chieh Chao “*Pseudo MIPv6 for Anycast and Fault Tolerance Services*” Journal of Internet Technology, Volume 7, Issue 3, Page 215-224, July 2006. **(EI)**
- [45] Yun-Sheng Yen, Chia-Chang Hsu, and Han-Chieh Chao “*Global Dynamic Home Agent Discovery on Mobile IPv6*” Wireless Communications and Mobile Computing, Volume 6, Issue 5, Page 617-628, August 2006. **(SCI, Impact Factor=0.669)**
- [46] Chi-Yuan Chang, Fred Lin, Crota Chen and Han-Chieh Chao, “*P2P architecture over IPv6 for personal internetworking*”, International Journal of Internet Protocol Technology, Page 214 – 220, Volume 1, No. 4, 2006.
- [47] Wen-Lung Shiau, Yu-Feng Li, Han-Chieh Chao, and Ping-Yu Hsu, “*Evaluating IPv6 on a Large-Scale Network*” Computer Communications, Volume 29, Issue 16, Pages 3113-3121, October 2006. **(SCI, Impact Factor=0.574)**
- [48] S. Misra, S.C. Misra, I. Woungang, and Han-Chieh Chao “*Towards a UML Profile for Object-Oriented Modeling of GMPLS Networks*” Journal of Internet Technology, Volume 7, Issue 4, November 2006. **(EI)**
- [49] Wally Chen, Sy-Yen Kuo and Han-Chieh Chao “*Virtual Polar Coordinate Space with Fuzzy Preserving Sensor Networks for Mobility Performance Consideration*” accepted for publication in the International Journal of Sensor Networks.
- [50] Tin-Yu Wu, Rong-Wei Jhang and Han-Chieh Chao, “*Efficient Architecture and Handoff Strategy used for VoIP Sessions in SIP Based Wireless Networks*”, accepted for publication in Wireless Personal Communications. **(SCI, Impact Factor=0.243)**
- [51] Wei-Ming Chen, Chung-Sheng Li, Fu-Yu Chiang, and Han-Chieh Chao, “*Jumping Ant Routing Algorithm for Sensor Networks*” accepted for publication in Computer Communications. **(SCI, Impact Factor=0.574)**

期刊特刊編者序(Editorial for Special Issue)

- [1] Sy-Yen Kuo, and Han-Chieh Chao “*Guest Editors’ Introduction: Special Issue on Mobile Networking through IP*” Mobile Networks and Applications, Vol. 8, No. 6,

- pp. 623-623, December 2003. (Publications by ACM-Affiliated Organizations), ACM Press. **(SCI, Impact Factor=0.931)**
- [2] Han-Chieh Chao, Heinrich J. Stuttgen, and Daneil G. Waddington "Guest Editorial: IPv6 – The Basis for the Next Generation Internet" IEEE Communications Magazine, Vol. 42, No. 1, pp. 92-93, January 2004. **(SCI, Impact Factor=2.359)**
- [3] Han-Chieh Chao "The Next Generation Internet Protocol (IPv6)" Journal of Internet Technology (JIT) Vol. 5, No. 2, April 2004.
- [4] Han-Chieh Chao, N.-F. Huang, S.-Y. Kuo, C. E. Perkins, and H. Stuttgen, "Wireless Overlay Networks Based on Mobile IPv6", IEEE Journal on Selected Areas in Communications, pp. 2089-2092, Volume 23, Issue 11, Nov. 2005.
- [5] Han-Chieh Chao, "IPv6 Technology and Deployment", International Journal of Internet Protocol Technology, Volume 1, No. 4, 2006.
- [6] Han-Chieh Chao, Lorna Uden, Frank Y. Shih "Mobile IP", Wireless Communications and Mobile Computing, pp. 543-546, Volume 6, Issue 5, August 2006.
- [7] Jiann-Liang Chen, Han-Chieh Chao and Sy-Yen Kuo, "IPv6: More than protocol for next generation Internet", Computer Communications, 2006.
- [8] IEE Proceedings Communications: Special Issue on Wireless Mobile Networks: Cross-Layer Communication, 2007.
- [9] Computer Communications: Special Issue on Mobility Protocols for ITS/VANET, 2008.

二、研討會論文：

- [1] 陳鴻彬, 林信鋒, 趙涵捷, "新設校園網路規劃實務," TANet'95 研討會 Proceedings, 中壢市, 台灣省, 中華民國, S5-S12, Oct. 23-24, 1995.
- [2] 陳偉銘, 趙涵捷, 林信鋒 "以 Windows NT 上的 SQL Server 為伺服器," TANet'95 研討會 Proceedings, 中壢市, 台灣省, 中華民國, S50-S54, Oct.
- [3] 陳鴻彬, 趙涵捷, 林信鋒 "An Alternative Method for Connection Between TANet," TANet'95 研討會 Proceedings, 中壢市, 台灣省, 中華民國, F18-F25, Oct. 23-24, 1995.
- [4] 陳鴻彬, 趙涵捷, 林信鋒 "一種中小學與 TANet 連線新架構," Proceedings of TANet'96 研討會, October 22-24, 新竹.
- [5] Nen-Fu Huang, Ko-Shung Chen, H. C. Chao, and Jen-yi Pen "A Distributed Multicast Tree Migration Scheme for ATM Based Personal Communication Networks," IEEE Globecom'96, London, pa310, November 18-22, 1996.
- [6] Nen-Fu Huang, Chuan-Pwu Wang, and H. C. Chao "QGMP: A QoS Guaranteed MAC Protocol for Wireless ATM Networks," The 11th International Conference on Information Networking (ICOIN-11), Taipei, Taiwan, ROC, 6D-3.1, January 27-29, 1997.
- [7] C. Y. Lin, H. B. Chen, H. C. Chao, Su Chang, and Michelle T. Kao, "An Authentication Method for Securing the Consistency between Remote Access Servers and E-mail Servers Accounts," 1997 International Conference on Computer Systems Technology for Industrial Applications -- Internet and Multimedia (CSIA'97), Hsinchu, Taiwan, ROC, pp. 234-238, April 23-25, 1997.
- [8] Han C. Chao, R. C. Wang, David Lin and H. B. Chen, "The Future Trend of Networking - Gigabit Ethernet," 1997 International Conference on Next Decades of High Technologies (ICHT'97), Changhua, Taiwan, ROC, pp. 35-39, July 18-20, 1997.
- [9] 馬啟銘, 劉馨勤, 林信鋒, 趙涵捷, "以 ActiveX 為技術平台的校務行政電腦

- 化人事統計報表系統” TANet’97, Taipei, Taiwan, ROC, Oct. 21-23, 1997.
- [10] Han C. Chao, Ken Lay, Weiming Chen, and H. B. Chen, “A *Distributed Multicast Tree Using Share Link Migration Scheme for Wireless ATM Network*” Proceedings of National Computer Symposium 1997 Republic of China, Vol. 3, pp. F119, December 22-23, 1997.
- [11] 趙涵捷, 張耀中, 陳鴻彬, “由區域網路談高速網路未來驅勢” 跨世紀資訊科技研討會, Taipei, Taiwan, Feb. 25-25, 1998.
- [12] Jiann-Liang Chen, Han-Chieh Chao, Reen-Cherng Wang, and Jian-Hong Gong, “*Communication Infrastructure for Mobile Intranet*” Proceedings of the 4th Mobile Computing Workshop, Hsinchu, Taiwan, pp. 38-44, March 25-26, 1998.
- [13] Nen-Fu Huang, Chi-An Su and Han-Chieh Chao, “*Architectures and Handoff Schemes for CATV-Based Personal Communications Network*” IEEE Infocom’98, San Francisco, USA, March 29-April 2, 1998.
- [14] Han C. Chao, Wei-Ming Chen, H. B. Chen and Michelle Kao, “*The Economical Multi-link Internet (Intranet) Access Solutions for Medium-Small Business, Rural Educational Institutes and Native Taiwanese Communities in Taiwan*” Proceedings of the 14th International Conference on Advanced Science and Technology (ICAST’98), Chicago, USA, pp. 273-280, April 3-5, 1998.
- [15] Wei-Ming Chen, Michelle Kao, Han C. Chao and C. Y. Lin, “*The Economical Multi-link Internet (Intranet) Access Solution for Medium-Small Business and Rural Educational Institutes*” The Second International Conference and Exhibition on Information Infrastructure (ICII’98), Beijing, China, April 26-29, 1998.
- [16] 高台茜, 陳偉銘, 趙涵捷, “適合偏遠地區遠距教學網路連線技術之研究與評量” ’98 全球華人計算機教育應用大會, Hong Kong, June 11-13, 1998.
- [17] 林信鋒, 陳慶奉, 吳長隆, 趙涵捷, 劉馨勤, 楊允言, “短期教授招待所管理系統” Proceedings of TANET98, Hualien, Taiwan, Nov. 9-11, 1998.
- [18] 陳偉銘, 趙涵捷, 洪嘉莉 “高功能低成本擴充容易的網路選課系統” Proceedings of TANET98, Hualien, Taiwan, Nov. 9-11, 1998.
- [19] Han-Chieh Chao, Yao-Chung Chang, Sheng-Wen Chang, “*Frame Burst Adjusting for Transmitting Video Conference in Gigabit Ethernets*” International Conference on Parallel and Distributed Computer and Networks (PDCN’98), ParkRoyal Brisbane, Brisbane, Australia, December 14-16, 1998.
- [20] 趙涵捷, 陳偉銘, 翁仲正, 高台茜, 崔德高 “多功能代理伺服器之撰寫與在中小學教育環境的應用” the Tenth International Conference on Information Management, Tao-yuan, Taiwan, June 4-5, 1999.
- [21] Wei-Ming Chen, Han-Chieh Chao, and C. Y. Lin “*Variable-rate Hierarchical Vector Quantization with Variance Classification*” 1999 International Conference on Imaging Science, Systems, and Technology (CISST’99), Las Vegas, NV, USA, June 28 – July 1 1999.
- [22] Han-Chieh Chao, and Y. M. Chu “*An Integrated Mobile Communication Infrastructure for the Next Generation PCS Systems Using IPv6*” International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA’99), Las Vegas, NV, USA, June 28 – July 1 1999.
- [23] Han C. Chao, W. M. Chen, and C. C. Ong, “*Novel Cluster Proxy Server System for Internet Applications*” SPIE’s Symposium on Voice, Video, and Data Communications, Boston, MA, USA, 19-22 September 1999.
- [24] Han C. Chao, and J. Y. Hong, “*Channel Assignment Schemes for WDM-based Personal Communications Network*” 1999 IEEE Wireless Communications and Networking Conference (WCNC’99), New Orleans, LA, USA, 21-24 September 1999.

- [25] Han C. Chao, and R. C. Wang, "The Network Topology Based Domain Name Service - Using WWW Service as an Example" 1999 International Conference on Parallel Processing, International Workshop on Multimedia Network Systems (ICPP MMNS'99), Aizu-Wakamatsu, Fukushima, Japan, 21-24 September 1999.
- [26] 趙涵捷 吳庭育 陳瑩晉, "非同步傳輸模式網路可用位元率服務中輔助 VSVD 功能於 EFCI 及 ER ATM 交換器" Proceedings of TANET99, Kaohsiung, Taiwan, 21-23 October 1999.
- [27] Han-Chieh Chao, and Y. M. Chu "Cellular Mobile Ipv6: A Solution for High-Speed Packet-Based Cellular Environments" Proceedings of the 1999 International Symposium on Communications (ISCOM'99), Kaohsiung, Taiwan, 7 - 10 November 1999.
- [28] Han-Chieh Chao, and Y. M. Chu "A Low Latency Handoff Algorithm for the Next Generation Packet-Based Cellular Network: Cellular Mobile IPv6" presented in the Second IEEE International Conference on Information, Communications & Signal Processing (ICICS'99), Singapore, 7 - 10 December 1999.
- [29] Shiann-Tsong Sheu, Chuan-Ching Tsao, Yue-Ru Chuang, Ho-Hsin Chen and Han-Chieh Chao, December 1999, "Upgrade Layer2 Ether-Switch to IP Switch Router", IEEE ICICS'99, Singapore.
- [30] Han C. Chao, J. Y. Hong, and M. T. Lin, "Channel Assignment Schemes for WDM and SCM/WDM-based Personal Communications Network" to be presented in the 14th International Conference on Information Networking (ICOIN-14), Hsinchu, Taiwan, ROC, 26-28 January 2000.
- [31] 趙涵捷 吳庭育, "增強 H.323 的安全性並動態調整傳輸量" Proceedings of 第十屆全國資訊安全會議, Hualien, Taiwan, 5-6 May, 2000.
- [32] 趙涵捷 應志宏, "利用 Ipv6 之 DNS 模式來解決行動電話的號碼可攜性問題" Proceedings of 二〇〇〇網際網路與分散式系統研討會, Tainan, Taiwan, 11-12 May, 2000.
- [33] Han-Chieh Chao, Y. M. Chu, and J. L. Chen "The Implicatoin of the Next-Generation wireless Network Design: Cellular Mobile IPv6" presented in IEEE 2000 International Conference on Consumer Electronics, Los Angeles, CA, USA, June 13-15, 2000.
- [34] Han-Chieh Chao, Y. M. Chu, and M. T. Lin "The Cellular Mobile IPv6 Using Low Latency Handoff Algorithm for the Packet-Based Cellular Network" presented in IEEE International Conference on Third Generation Wireless Communications, San Francisco, CA, USA, June 14-16, 2000.
- [35] J. L. Chen, C. T. Chang, and H. C. Chao "Performance Analysis for Handoffs in Wireless Cellular Systems Using π -Calculus" Proceedings of the 12th International Conference on Wireless Communications, Calgary, Alberta, Canada, July 10-12, pp302-310.
- [36] J.L. Chen, J.H. Gong, and H.C. Chao, "Resource Reservation with Mobile Hosts Using Fuzzy Matrices," Appear of Proceedings of the PIMRC 2000 Conference, 2000.
- [37] J.L. Chen, M.Yang, H.C. Chao, "An Agent-based Scheme for Interference Cancellation in a Wireless DS/CDMA System" Appear to Proceedings of the IEEE SMC 2000 Conference, 2000.
- [38] 趙涵捷 吳庭育 林牧台, "動態調整在群播網路上傳輸封包式視訊資料量並增強安全性" Proceedings of TANET2000, Vol. 2, pp. 932-939, Tainan, Taiwan, 19-21 October, 2000.
- [39] 黃能富 黃仁竑 趙涵捷 陳懷恩, "國家寬頻實驗網路上新一代網際網路通訊協定服務之建置與測試" Proceedings of TANET2000, Vol. 2, pp.

- 1066-1070, Tainan, Taiwan, 19-21 October, 2000.
- [40] J.L. Chen, H.C. Chao, and R.C. Wang, "Fair Resource Sharing Scheme for Cellular Data Services with Differentiated QoS," Proceedings of IEEE Globecom'2000, San Francisco, USA, November 27 -December 1, 2000.
- [41] 趙涵捷, 江佳霖, 高台茜 "以網路教學工具促進空中教育的發展," 中華民國空中教育學會八十九年度年會暨論文發表與學術研討會, December 8, 2000.
- [42] H. C. Chao, C. L. Hung, and Y. C. Chang, "Efficient Changes and Variability Bandwidth Allocation for VBR Media Streams" presented in the 3rd International Workshop on Multimedia Network Systems in conjunction with the 21st International Conference on Distributed Computing Systems (ICDCS2001), Phoenix, Arizona, USA, April 16-19, 2001.
- [43] H. C. Chao, S. W. Chang, J. L. Chen, and T. G. Tsuei, "Throughput Improvements using the Random Leader Technique for the Reliable Multicast Wireless LANs" the IEEE International Conference on Networking (ICN01), CREF, Colmar, France, July 9-13, 2001.
- [44] J.L. Chen, H.C. Cheng, H.C. Chao, "Scheduling Disciplines in Cellular Data Services with Probabilistic Location Errors" the IEEE International Conference on Networking (ICN01), CREF, Colmar, France, July 9-13, 2001.
- [45] H. C. Chao and Y. M. Chu, "Implementing the SLA of VoIP Using Bandwidth Management Techniques" OPNETWORK 2001, Washington, D.C., USA, August 27-31, 2001.
- [46] R. C. Wang, H. C. Chao, and Michelle Kao, "Hacking@Internet - Attack and Defense" the Seventh International Conference on Distributed Multimedia Systems (DMS'2001), Tamkang University, Taipei, Taiwan, September 26-28, 2001.
- [47] H. C. Chao, Y. M. Chu and T. G. Tsuei, "Codec Schemes Selection for Wireless Voice over IP (VoIP)" the Second IEEE Pacific-Rim Conference on Multimedia Oct. 24-26, 2001, Beijing, China.
- [48] K. M. Liu and H. C. Chao, "虛擬私有網路在IPv6 蜂巢式無線網路架構下的應用 (Virtual Private Networks in Cellular Mobile IPv6 Architectures)" TANET2001, Chiayi, Taiwan, 24-26 October, 2001.
- [49] 趙涵捷, 黃能富, 黃仁竑, 黃清揚, 張瑞雄, 高台茜, "新一代網際網路通訊協定 (IPv6) 之推展與建置" TANET2001, Chiayi, Taiwan, 24-26 October 2001.
- [50] 趙涵捷, 王金龍, 吳庭育, "架構於 IEEE 802.11 的流量分散機制" 2001 National Computer Symposium (NCS'01), pp. E312 – E321, Taipei, Taiwan, 20-21 December 2001.
- [51] Han-Chieh Chao and C. L. Chiang, "Wireless Switching For CDMA Based IEEE 802.11" AD HOC 2002 Conference, Paris, France, 5-8 March 2002.
- [52] Han-Chieh Chao, Chih-Hung Ying and T. G. Tsuei, "IPv6-GSM :An IPv6-based Solution for GSM Number Portability" the second International Workshop on Intelligent Multimedia Computing and Networking (IMMCN'2002) in conjunction with the Sixth Joint Conference on Information Sciences (JCIS'2002), Durham, North Carolina, USA, 8-12 March, 2002.
- [53] Reen-Cheng Wang, Han-Chieh Chao, and Michelle Kao, "The IPv6 Deployment in Taiwan Academic Network" Madrid 2002 Global IPv6 Summit – New Internet Global Vision: Europe Drives IPv6 Deployment, Madrid, Spain, 13-15 March, 2002.
- [54] Nen-Fu Huang, and Han-Chieh Chao, "IPv6 Activities in Taiwan" Global IPv6 Summit in China, Beijing, China, 9 – 11 May, 2002.
- [55] 張耀中 舒安平 林牧台 趙涵捷 "藍芽擴散式網路之無線橋接節點路由協

- 定(An Ad Hoc Bridge Node Routing Protocol for Bluetooth Scatternet)” 2002 數位生活與網際網路科技研討會(2002 Symposium on Digital Life and Internet Technologies), Tainan, Taiwan, 27-28 June 2002.
- [56] Yao-Chung Chang, Han-Chieh Chao, K.M. Liu and T. G. Tsuei, “MPLS VPN in Cellular Mobile IPv6 Architectures” International Conference of Communications, Circuits and Systems & West Sino-Exposition 2002 (ICCCAS & WESINO EXPO’02), Chengdu, China, 29 June – 1 July 2002.
- [57] 陳坤璋, 趙涵捷 “利用高速 IEEE1394 匯流排傳送 IP 封包” TANET2002, Hsinchu, Taiwan, 30 October -1 November 2002.
- [58] 陳瑞鎰, 趙涵捷 “Mobile IPv6 結合 AAA 應用於 IEEE 802.11” TANET2002, Hsinchu, Taiwan, 30 October -1 November 2002.
- [59] 江佳霖、吳庭育、趙涵捷 “結合 CDMA 的 IEEE802.11 Ad-Hoc 模式之整體架構網路” 2002 全國電信研討會暨國科會電信學門研究成果發表, Page 1428, Nantou, Taiwan, 6-7 December 2002.
- [60] N. F. Huang, H. C. Chao, R. C. Wang and A. Chen, “IPv6 Testbed and Projects in Taiwan” the 2003 International Symposium on Applications and Internet (SAINT2003), Orlando, Florida, USA, January 27-31 2003.
- [61] 徐佳漳 趙涵捷 崔德高"IPv6 應用於網域名稱自動化分配與家庭網路管理" 2003 通信電子科技與應用研討會, Penghu, Taiwan, July 4, 2003.
- [62] Tin-Yu Wu, Kai-Ming Liu, C. L. Chiang, Han-Chieh Chao, “A Relay Mechanism for Incapable Nodes within a CDMA Based IPv6 Network using an Ad-Hoc Mechanism” International Conference on Information Technology: Research and Education, August 10-13, 2003, Newark, New Jersey, USA.
- [63] Yao-Chung Chang, Han-Chieh Chao, Jiann-Liang Chen, Rong-Wei Jhang, “Evaluation of IPv6 Simulation Using OPNET IPv6 Model Suite” OPNETWORK 2003, Washington, D.C., USA, August 25-29, 2003
- [64] T. G. Tsuei, Chia-Chang Hsu and Han-Chieh Chao, “IPv6 Domain Name Auto-configuration for Home Network Managements” 2003 International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2003), Split, Dubrovnik (Croatia), October 7-10, 2003
- [65] 王忍成, 江馥羽, 趙涵捷 “新一代 IPv6 網路服務之建置” TANET2003, Taipei, Taiwan, October 29-31, 2003.
- [66] 張耀中, 舒安平, 李忠昇, 李宇峰, 林志昇, 趙涵捷 “TANET 網路管理服務-sFlow 流量監測軟體研發” TANET2003, Taipei, Taiwan, October 29-31, 2003
- [67] Tak-Goa Tsuei, Kun-Chang Chen, and Han-Chieh Chao, “Multimedia Applications on Home Network over IEEE 1394” the second WSEAS International Conference on Electronics, Control and Signal Processing (ICECS’03), Singapore, December 7-9, 2003.
- [68] 趙涵捷、陳俊良、張耀中、林志昇 “Access Grid 在遠距教學之應用” 2003 開放及遠距教育研討會暨第二屆 AEARU 網路教學國際學術研討會, Taipei, Taiwan, December 10 – 11, 2003.
- [69] H. C. Chao, and T. Y. Wu “TWNIC IPv6 R&D achievements in Taiwan” Moby Dick Singapore Workshop (The Third International IST Workshop on Terrestrial Wireless Systems and Networks), Singapore, December 16 - 17, 2003.
- [70] R. Y. Chen, R. C. Wang and H. C. Chao, “Mobile IPv6 and AAA architecture based on WLAN” the 2004 International Symposium on Applications and Internet (SAINT2004), Tokyo, Japan, January 26-30, 2004.
- [71] Rong-Wei Jhang and Han-Chieh Chao, “An Efficient Architecture and Roaming/Handoff Strategy used for VoIP sessions in SIP Based Wireless Networks” the 10th Mobile Computing Workshop (MC2004), Taichung, Taiwan,

- March 26, 2004.
- [72] 蔡廷熙、趙涵捷 “平滑式換手下的網際網路金鑰交換” the 10th Mobile Computing Workshop (MC2004), Taichung, Taiwan, March 26, 2004.
- [73] 王鴻傑、趙涵捷 “以位置為基礎(Location-Based)使用訊號強度地圖(Signal Strength Map)來減少 IEEE 802.11 MAC Layer 換手延遲” the 10th Mobile Computing Workshop (MC2004), Taichung, Taiwan, March 26, 2004.
- [74] 劉宏彬 趙涵捷 陳偉銘“使用 IPv6 中 Anycast 在 IP 層解決伺服器的 load balanced 問題”2004 通訊電子科技與應用研討會, Kaohsiung, Taiwan, May 28, 2004.
- [75] 趙涵捷 張繼元 顏雲生 施能傑 陳威良“量子格網計算” 二〇〇四數位生活與網際網路科技研討會, Tainan, Taiwan, June 24-26, 2004.
- [76] 莊家誠 趙涵捷 陳偉銘 黃忠偉“A Sliding Weighted Fair Queueing (SWFQ) for Real-Time Network” 二〇〇四數位生活與網際網路科技研討會, Tainan, Taiwan, June 24-26, 2004.
- [77] Wally Chen, Han-Chieh Chao and T. Y. Wu, “Virtual Polar Coordinate Space with Fuzzy Preserving Consideration for Sensor Networks” The IASTED International Conference on Wireless Networks and Emerging Technologies, Banff, AB, Canada, July 8 – 10, 2004.
- [78] Chung-Sheng Lee, and Han-Chieh Chao, “Evaluation of contention-based EDCA for IEEE 802.11e Wireless LAN” OPNETWORK 2004, Washington, D.C., USA, August 30 - September 3, 2004.
- [79] 陳冠伊 王鴻傑 趙涵捷 “使用 Fuzzy Logic 改善 IEEE 802.11 換手延遲” TANET2004, Taitong, Taiwan, October 27-29, 2004.
- [80] 顏雲生 徐佳漳 趙涵捷 “以整合全域 Anycast 與移動式 IPv6 網路方式提供分散式本地代理伺服器架構” TANET2004, Taitong, Taiwan, October 27-29, 2004.
- [81] Chi-Yuan Chang, Wei-Ming Chen, Han-Chieh Chao, Hong Bin Liu, T.G. Tsuei, “IP Layer Load-Balance Using Fuzzy Logic Under IPv6 Anycast Mechanism” The Third International Workshop on Cooperative Internet Computing (CIC2004), Regal Kowloon Hotel, Hong Kong, December 12, 2004.
- [82] Yun-Sheng Yen, Yu-Min Lin and Han-Chieh Chao, “Integrated Residential Gateway: Easy IA management with P2P Community Using RFID” The 7th International Conference on Advanced Communication Technology (ICTACT2005), Phoenix Park, South Korea, February 21-23, 2005.
- [83] Tin-Yu Wu, Ting-Shi Tsai, Han-Chieh Chao and T. G. Tsuei, “The Implication of the Security Key Exchange during Mobile IPv6 Smooth Handoff” The 7th International Conference on Advanced Communication Technology (ICTACT2005), Phoenix Park, South Korea, February 21-23, 2005.
- [84] Ting-Yun Chi, Tin-Yu Wu, Han-Chieh Chao and T. G. Tsuei, “Improve Pseudo-anycast based on Mobile IP” The 7th International Conference on Advanced Communication Technology (ICTACT2005), Phoenix Park, South Korea, February 21-23, 2005.
- [85] Fu-Yu Chiang, Ming-Hui Liang, Tin-Yu Wu, and Han-Chieh Chao “Pragmatic Lab-Exercises for IPv6 Training” iCEER-2005, Tainan, Taiwan, March 1-5, 2005.
- [86] Yun-Sheng Yen, Weimin Chen, Jia-Cheng Zhhuang and Han-Chieh Chao “A Novel Sliding Weighted Fair Queueing Scheme for Multimedia Transmission” The International Conference on Advanced Information Networking and Applications (AINA 2005), Taipei, Taiwan, March 28-30, 2005.
- [87] Chi-Yuan Chang, Hong-Jie Wang and Han-Chieh Chao, “Using Fuzzy Logic

- to Mitigate IEEE 802.11 Handoff Latency”, Special Session on Fuzzy Logic for Ad Hoc and Sensor Networks, IEEE International Conference on Fuzzy Systems, May 22-25, Reno, Nevada, USA
- [88] Fred Lin and Han-Chieh Chao, “Hybrid LAN Network Mobility with Distributed Home Agents”, 6th World Wireless Congress (WWC’05), May 24-27, San Francisco, California, USA
- [89] Yun-Sheng Yen, Chia-Chang Hsu, Han-Chieh Chao, “Distributed Balancing with Application-Layer Anycast for Home Agent Discovery on the Mobile IPv6”, Wireless IP Symposium, WirelessCom 2005, June 13-16, Maui, Hawaii, USA
- [90] Wally Chen, Han-Chieh Chao, Yun-Sheng Yen, “Proactive Hand-Off Target Orientation Cache in Fast Handover for Mobile IPv6”, Wireless IP Symposium, WirelessCom 2005, June 13-16, Maui, Hawaii, USA
- [91] Fred Lin, Liang-Yu Chen, Han-Chieh Chao and Wei-Ming Chen, “Personal Internetworking Using P2P Architecture over IPv6”, The Ninth International Symposium on Consumer Electronics (ISCE 2005), June 14-16, Macau, China
- [92] Chun-Cheng Chang, Wei-Ming Chen, Han-Chieh Chao, “Ultrasound Images Transmission Algorithms through Wireless LAN”, Workshop on Wireless, Ad Hoc, and Sensor Networks (WASN 2005), July 29 and August 1-2, 2006, National Central University, Taiwan.
- [93] 顏雲生 詹益恭 廖玉卿 趙涵捷 “移動隨意網路下植基於基因演算法之能源考量 QoS 群播選徑” TANET2005, Taichung, Taiwan, October 26-28, 2005.
- [94] 黃金城 吳庭育 趙涵捷 “應用於無線網路環境的權重式循環/回饋預測機制” TANET2005, Taichung, Taiwan, October 26-28, 2005.
- [95] Yi-Kung Chan, Yun-Sheng Yen, Chia-Chang Hsu, and Han-Chieh Chao “Global Dynamic Home Agent Discovery on Mobile IPv6”, The second International Conference on Mobile Technology, Applications and Systems (Mobility Conference 2005), November 15-17, 2005, Guangzhou, China.
- [96] Chang-Chun Cheng, Wei-Ming Chen, Han-Chieh Chao, “FPGA Authentication Header (AH) Implementation for Internet Appliances”, The 11th International Symposium of Pacific Rim Dependable Computing (PRDC 2005), December 12-14, 2005, Changsha, Hunan, China.
- [97] Ting-Yun Chi and Han-Chieh Chao, “Pseudo MIPv6 for Anycast and Fault Tolerant Services”, 2005 National Computer Symposium(NCS’05), December 15-16, 2005, Tainan, Taiwan.
- [98] Yun-Sheng Yen, Hung-Chieh Chang, Ruay-Shiung Chang and Han-Chieh Chao “Routing with Adaptive Path and Limited Flooding for Mobile Ad Hoc Networks”, International Symposium on Wireless Pervasive Computing 2006, January 16-18, 2006, Phuket, Thailand.
- [99] Nin-Jain Shin, Tin-Yu Wu, Wei-Ming Chen and Han-Chieh Chao “Using MPLS-Based Dynamic Tunnel for Location Control and QoS Management in Wireless Network”, International Symposium on Wireless Pervasive Computing 2006, January 16-18, 2006, Phuket, Thailand.
- [100] 陳亮宇 顏雲生 趙涵捷 “A Novel Predictive Scheduling Handover on Mobile IPv6” the 12th Mobile Computing Workshop (MC2006), Taichung, Taiwan, March 23, 2006
- [101] 王堯波 紀廷運 黃忠偉 黃能富 趙涵捷 “V-Learning 互動式行動語音網頁數位學習平台” 2006 知識社群與數位學習研討會 (Knowledge Community and E-learning Seminar), Taipei, Taiwan, May 18, 2006
- [102] 李忠昇 陳冠伊 陳偉銘 趙涵捷 “無線網路於整合型藝術創作計畫之應用—國立台灣美術館數位藝術創作計畫：BABYLOVE” 二〇〇六數位生活與網

- 際網路科技研討會 -建構安全、安心、安康的生活環境 (2006 Symposium on Digital Life Technologies-Building a Safe, Secured and Sound (3S) Living Environment), Tainan, Taiwan, June 1-2, 2006.
- [103] 呂昫輯 劉維仁 顏雲生 陳偉銘 趙涵捷“一觸即顯數位多媒體感測陣列處理電路設計”二〇〇六數位生活與網際網路科技研討會 -建構安全、安心、安康的生活環境 (2006 Symposium on Digital Life Technologies-Building a Safe, Secured and Sound (3S) Living Environment), Tainan, Taiwan, June 1-2, 2006.
- [104] Yun-Sheng Yen, Chih-Shan Liao, Ruay-Shiung Chang, Han-Chieh Chao and Wei-Ming Chen “An Energy-Aware Quality of Services Routing Protocol in Mobile Ad Hoc Networks”, International Conference on Wireless Algorithms, Systems and Applications (WASA 2006), August 15-18, 2006, Xi’an, China.
- [105] Yun-Sheng Yen; Lyann-Yu Chen; Ting-Yun Chi; Han-Chieh Chao “A Novel Predictive Scheduling Handover on Mobile IPv6”, First International Conference on Communications and Networking in China (Chinacom 2006), October 25-27, 2006, Beijing, China.
- [106] 吳庭育 陳麒元 陳建宏 張凱迪 鍾俊豪 趙涵捷 “應用於 4G 核心網路支援各種異質網路之 Cross-layer AAA” TANET2006, Hualien, Taiwan, November 1-3, 2006.
- [107] 李忠昇 林家男 趙涵捷 “研發點對點分散式網路架構過濾監控系統以 Microsoft's MSN 為例” 二〇〇六「開放原始碼」技術與應用研討會, Taipei, Taiwan, November 10, 2006.
- [108] 趙涵捷 張繼元 陳麒元 陳建宏 張凱迪 鍾俊豪 ”4G 行動通訊研究” 2006 多媒體及通訊系統研討會, Kaohsiung, Taiwan, December 16, 2006.

三、其他著作或專利：

- [1] 光纖之旅, 中山文庫科技系列, 台灣書店印行, March, 2000.
- [2] 影像裡的數學世界, 中山文庫科技系列, 台灣書店印行, October, 2001.
- [3] 悠遊網際網路, 中山文庫科技系列, 台灣書店印行, December, 2001.
- [4] IPv6 新世代網際網路協定與整合技術, 旗標出版股份有限公司, July 2004 (Editor).
- [5] Han-Chieh Chao, Tin-Yu Wu and Michelle T. C. Kao, “Environments for Mobile Learning –Pervasive and Ubiquitous Computing using IPv6” Chapter of Encyclopedia of Online Learning and Technology, Information Science Publishing 2005.

四、三年內之研究計畫 (2003.8~2006.7)：

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
95年11月~ 96年10月	提升產業技術及人才培育研究計畫—WiMAX 群體移動網路車機系統	主持人	NT\$708,420	國科會

95年6月15日至96年1月15日	Babylove (行動無線裝置作品軟體維護及混音工程設計)	主持人	NT\$500,000	國美館
95年1月1日至95年12月31日	NICE-INTEL (教育部顧問室通訊技人才培育先導型計畫-與 Intel 合作通訊網路課程案)	主持人	NT\$220,000	教育部
96年8月~97年7月	All-IP Cross-Layer 4G 行動通信研究--總計畫(2/2)	主持人	NT\$1,305,000	國科會
96年8月~97年7月	All-IP Cross-Layer 4G 行動通信研究--子計畫一：All-IP Cross Layer 4G Testbed 建置(2/2)	主持人	NT\$961,000	國科會
95年8月~96年7月	All-IP Cross-Layer 4G 行動通信研究--總計畫(1/2)	主持人	NT\$1,840,000	國科會
95年8月~96年7月	All-IP Cross-Layer 4G 行動通信研究--子計畫一：All-IP Cross Layer 4G Testbed 建置(1/2)	主持人	NT\$961,000	國科會
95年7月~96年2月	宜蘭縣偏鄉數位機會中心輔導計畫	主持人	NT\$2,861,000	教育部
95年6月~97年12月	行動宜蘭無線寬頻應用開發案委託專案管理及監造技術服務	共同主持人	NT\$17,100,000	宜蘭縣政府
95年1月~95年12月	教育部顧問室通訊科技人才培育先導型計畫 - 新世代網際網路 (IPv6)整合技術	主持人	NT\$1,621,000	教育部
95年1月~95年12月	九十五年度我國 IPv6 建置發展計劃 - 研究發展分項計畫	主持人	NT\$5,850,000	財團法人台灣網路資訊中心
94年11月~95年10月	SMART-校園生活無線通無限學技術研發與應用(1/3) (94-2218-E-002-074-)	共同主持人	NT\$5,840,000	國科會
94年11月~95年10月	TWAREN VXML 服務建置及委託規劃第二期採購案	主持人	NT\$1,000,000	國家高速網路與計算中心
94年9月~95年8月	數位創意生活應用技術研發計畫 (94-2263-7-259-002-IT)	主持人	NT\$2,600,000	國科會
94年9月~95年10月	數位創意生活應用技術研發三年計畫 - 第一年	主持人	NT\$13,242,000	經濟部

94年8月～ 95年7月	研發點對點分散式網路架構過濾 監控系統以Microsoft's MSN為例 (94-2218-E-259-004-)	主持人	NT\$571,000	國科會
94年8月～ 95年7月	All-IP Cross-Layer 4G 行動通信研 究(I)-總計畫(I) (94-2219-E-259-001-)	主持人	NT\$1,252,000	國科會
94年8月～ 95年7月	All-IP Cross-Layer 4G 行動通信研 究(I)-子計畫一：All-IP Cross-Layer 4G Testbed 建置(I) (94-2219-E-259-002-)	主持人	NT\$941,000	國科會
94年1月～ 94年12月	教育部顧問室通訊科技教育改進 計畫(寬頻網際網路組)- 新世代 網際網路(IPv6)整合技術	主持人	NT\$1,096,000	教育部
94年1月～ 94年12月	九十四年度我國 IPv6 建置發展計 畫研究發展分項計畫 —子計畫二：新一代網際網路移動 環境之研究(II)	主持人	NT\$4,700,000	財團法人台灣 網路資訊中心
94年1月～ 94年12月	九十四年度我國 IPv6 建置發展 計畫 - 研究發展分項計畫	主持人	NT\$3,20,000	財團法人台灣 網路資訊中心
93年8月～ 94年7月	All-IPv6 網路與應用(III)-子計畫 四: All-IPv6 網路 Mobility 及 Session Management 研究 (93-2219-E-259-001-)	主持人	NT\$910,800	國科會
93年5月～ 94年4月	結合 IA 資訊家電之 Sensor Network 研發 (93-2622-E-259-001-CC3)	主持人	NT\$468,700	國科會
93年8月～ 94年7月	All-IPv6 網路與應用(III)-子計畫 四: All-IPv6 網路 Mobility 及 Session Management 研究 (93-2219-E-259-001-)	主持人	NT\$910,800	國科會
93年5月～ 94年4月	結合 IA 資訊家電之 Sensor Network 研發 (93-2622-E-259-001-CC3)	主持人	NT\$468,700	國科會
93年1月～ 93年12月	九十三年度我國 IPv6 建置發展計 畫研究發展分項計畫 —子計畫二：新一代網際網路移動 環境之研究(II)	主持人	NT\$4,767,000	財團法人台 灣網路資訊 中心
93年1月～ 93年12月	我國 IPv6 建置發展計畫 - 研 究發展分項計畫	主持人	NT\$3,519,000	財團法人台 灣網路資訊 中心
93年1月～ 93年12月	教育部顧問室通訊科技教育改進 計畫(寬頻網際網路組)- 新世代 網際網路(IPv6)整合技術	主持人	NT\$1,796,000	教育部

92年8月~ 93年7月	All-IPv6 網路與應用(II)-子計畫 四: All-IPv6 網路 Mobility 及 Session Management 研究	主持人	NT\$902,100	國科會
91年8月~ 92年12月	九十一年度國家實驗網路應用環 境前置規劃計畫—下一代 IPv6 網 路之建置(II)	主持人	NT\$2,764,300	國科會
91年8月~ 92年7月	All-IPv6 網路與應用(I)-子計畫四: All-IPv6 網路 Mobility 及 Session Management 研究	主持人	NT\$528,885	中華電信
90年8月~ 91年7月	九十年度國家實驗網路應用環境 前置規劃計畫—下一代 IPv6 網路 之建置	主持人	NT\$2,242,500	國科會
92年8月~ 93年7月	All-IPv6 網路與應用(II)-子計畫 四: All-IPv6 網路 Mobility 及 Session Management 研究	主持人	NT\$902,100	國科會



■ 教學

五、三年內開授課程：

學年度	課程名稱(必/選)	選修人數
92	新世代網際網路(IPv6)整合技術	9
92	新世代網際網路(IPv6)整合技術	9
93	網路處理器	10
94	網路實驗	25
95	無線網路	15

六、三年內指導研究生狀況：

學年度	碩士班(人)	博士班(人)	畢業人數	
			碩士	博士
94	2	0	0	0
95	3	0	0	0



■ 服務

七、三年內校內校、院、系(所、科及中心)各級公共事務參與：

年月	校/院/系級	項目
2005.8~2006.7	校級	圖書資訊館館長
2006.8~ 現在	校級	電算中心主任
2006.8~ 現在	校級	電機資訊學院院長

八、三年內專業學術服務工作項目：

年月	校內/校外	項目
2005.7	校外	Invited Talk (VoIP & IPv6), Asia-Pacific IP Telecomm Summit (IPTS, 14-15th July, 2005), Taipei, Taiwan.
2005.5	校外	Invited Talk (IPv6 移動性之相關議題) 中央大學資訊工程系, May 4, 2005.
2004.10	校外	Invited Talk 教育部「通訊科技教育改進計畫」—「網路應用與服務」九十三年度南區校際講座, 中山大學, October 12, 2004.
2004.8	校外	Invited Talk (雙網網路整合平台), IP 電信國際研討會, August 26-27, 2004.
2004.7	校外	Invited Talk (NP Curriculum and its Applications), Network Processor Workshop, July 13, 2004.
2004.5	校外	Invited Talk (IPv6 新世代網路及其安全機制)網路安全技術與教學實驗平台研討會, 清華大學, May 28, 2004.
2004.5	校外	Invited Talk (新世代網際網路 IPv6 整合技術)新世代創新實驗教學研討會, 弘光科技大學, Taichung, May 13, 2004.
2004.4	校外	Invited Talk (IPv6 的移動性與 Wi-Fi 網路電話之整合應用)網路電話與雙網應用研討會,TCA, Taipei, April 22, 2004.
2003.11	校外	Invited Talk (IPv6 Mobility) 國立台灣師範大學資訊教育學系, November 17, 2003
2003.10	校外	Invited Talk (Ipv6 Migration and Its Applications) 財團法人台灣大哥大基金會委託國立台灣大學電信工程學研究所辦理「2003 年專題技術進階講座」October 14, 2003.
2003.10	校外	Invited Talk (IPv6 Mobility) 國立中山大學電機工程學系, October 7, 2003
2003.5	校外	Invited Talk (IPv6 網際網路協定) 國立中央大學資訊工程學系, May 28, 2003.
2003.5	校外	Invited Talk (IPv6 網際網路協定) 銘傳大學電腦與通訊學系, May 20, 2003.
2003.5	校外	Invited Talk (IPv6 Mobility) 朝陽科技大學大學資訊工程學系, May 13, 2003.
2003.2	校外	Invited Talk (Academic research on IPv6 in Taiwan), The 1 st Global IPv6 Summit in AP, February 25, 2003, Taipei.
2003.2~	校外	IPv6 present and future in Taiwan, Cisco IPv6 Technology Forum, February 25, 2003, Taipei
2003.3	校外	Invited Talk (IPv6 for next generation networks) at Carriers World Asia 2003, 13-14 March 2003, JW Marriott Hong Kong.
2002.10	校外	Invited Talk (Potential of IP and mobility) at Global IP Carriers Asia 2002, Sheraton Hong Kong Hotel & Towers



■ 教學與研究獎勵

九、三年內之教學與研究獎勵事蹟：

學年度	校內/校外	項目
96	IET (Institution of Engineering & Technology)	Fellow
96	BCS (British Computer Society)	Fellow & CITP