

*陳仁暉教授

所有發表期刊論文

1. P. Dai, **Jenhui Chen***, and Y. Zhao, "A Study of a Wire-Wireless Hybrid NoC Architecture with an Energy-Proportional Multicast Scheme for Energy Efficiency," revised to *Computers & Electrical Engineering*, 2014. (SCI, Rank: 26/50 (52%, 2013) in Computer Science, Hardware & Architecture)
2. **Jenhui Chen***, T.-C. Lien, and H.-M. Yang, "The Implementation of IEEE 802.16m Protocol Module for ns-3 Simulator," *Simulation Modelling Practice and Theory*, vol. 49, pp. 41-56, December 2014. **doi:** 10.1016/j.simpat.2014.08.003 (SCI/EI, Rank: 49/105 (46.67%, 2013) in Computer Science and Software Engineering) [S:2] [pdf]
3. **Jenhui Chen**, Z. Yuan, and L. Wang*, "An Apropos Signal Report and Adaptive Period (ASAP) Scheme for Fast Handover in the Fourth-Generation Wireless Networks," *Journal of Network and Computer Applications*, vol. 45, pp. 15-26, October 2014. **doi:** 10.1016/j.jnca.2014.06.002 (SCI/EI, Rank: 16/105 (15.23%, 2013) in Computer Science, Software Engineering) [S:2] [pdf]
4. **Jenhui Chen***, W.-H. Tarn, and J.-D. Lee, "An Extra Power Saving Scheme for Prolonging Lifetime of Mobile Handset in the 4G Mobile Networks," *PLoS ONE*, vol. 9, no. 8, e103429, August 2014. **doi:** 10.1371/journal.pone.0103429 (SCI, Rank: 8/55 (14.54%, 2013) in Multidisciplinary Sciences) [S:1.4] [pdf]
5. **Jenhui Chen***, C.-C. Yang, and S.-T. Sheu, "Downlink Femtocell Interference Mitigation and Achievable Data Rate Maximization: Using FBS Association and Transmit Power Control Schemes," *IEEE Transactions on Vehicular Technology*, vol. 63, no. 6, pp. 2807-2818, July 2014. **doi:** 10.1109/TVT.2013.2294340 (SCI/EI, Rank: 10/78 (12.82%, 2013) in Telecommunications) [S:1.4] [pdf]
6. **Jenhui Chen***, W.-H. Tarn, and J.-D. Lee, "A Downlink and Uplink Alignment Scheme for Power Saving in IEEE 802.16 Protocol," *The Scientific World Journal*, vol. 2014, January 2014. **doi:** 10.1155/2014/217973 (SCI/EI, Rank: 13/56 (23.2%, 2012) in Multidisciplinary Science) [S:1.4] [pdf]
7. **Jenhui Chen***, C.-C. Yang, and S.-T. Sheu, "An MBS-Assisted Femtocell Transmit Power Control Scheme with Mobile User QoS Guarantee in 2-Tier Heterogeneous Femtocell Networks," *The Scientific World Journal*,

- vol. 2013, November 2013. **doi:** 10.1155/2013/403978 (SCI/EI, Rank: 13/56 (23.2%, 2012) in Multidisciplinary Science) [S:1.4] [pdf]
8. **Jenhui Chen***, W.-H. Tarn, W.-H. Hsu, and C.-C. Wang, "Cross-Layer End-to-End Label Switching Protocol for WiMAX-MPLS Heterogeneous Networks," *Journal of Systems and Software*, vol. 85, no. 11, pp. 2459-2469, November 2012. (SCI/EI, Rank: 30/100 (30%, 2012) in Computer Science, Theory & Method) [S:1.4] [pdf]
 9. W.-H. Hsu*, **Jenhui Chen**, and S.-C. Yeh, "A Novel Delay-Based Multicast Routing Protocol in Ad Hoc Wireless Networks," *International Journal of Ad Hoc and Ubiquitous Computing*, vol. 7, no. 4, pp. 211-220, June 2011. (SCI/EI, Rank: 80/135 (59.3%, 2011) in Computer Science, Information Systems) [S:0.8] [pdf]
 10. W.-H. Hsu*, Y.-P. Shieh, and **Jenhui Chen**, "Multiple Path Selection Algorithm for DiffServ-Aware MPLS Traffic Engineering," *Computer Communications*, vol. 33, no. 13, pp.1557-1565, August 2010. (SCI/EI, Rank: 35/79 (44.3%, 2011) in Telecommunications) [S:0.4] [pdf]
 11. C.-P. Lin*, **Jenhui Chen**, and H.-L. Chen, "An Efficient Bandwidth Allocation Algorithm for Real-Time VBR Stream Transmissions under IEEE 802.16 Wireless Networks," *Journal of Network and Computer Applications*, vol. 33, no. 4, pp. 467-476, July 2010. (SCI/EI, Rank: 24/105 (22.8%, 2012) in Computer Science, Software Engineering) [S:0.8] [pdf]
 12. **Jenhui Chen*** and C.-C. Wang, "Secure and Reliable Transmission Mechanism for Orthogonal Frequency-Division Multiple Access Worldwide Interoperability for Microwave Access Systems," *IET Communications*, vol. 4, no. 9, pp. 1095-1107, June 2010. (SCI/EI, Rank: 125/247 (50.6%, 2010) in Engineering Electrical & Electronic) NSC97-2221-E-182-035-MY2 [S:2] [pdf]
 13. **Jenhui Chen***, "AMNP: Ad Hoc Multichannel Negotiation Protocol with Broadcast Solutions for Multi-hop Mobile Wireless Networks," *IET Communications*, vol. 4, no. 5, pp. 521-531, March 2010. (SCI/EI, Rank: 125/247 (50.6%, 2010) in Engineering Electrical & Electronic) NSC97-2221-E-182-035-MY2 [S:2] [pdf]
 14. **Jenhui Chen***, C.-C. Wang, and Y.-C. Hsiao, "Macrocell Label Switching Mechanism for MPLS-WiMAX Networks," *Journal of Applied Mechanics and Materials*, vol. 20-23, pp. 1096-1122, January 2010. (EI) NSC97-2221-E-182-035-MY2 [S:1.4] [pdf]
 15. H.-W. Tseng, A.-C. Pang, **Jenhui Chen**, and C.-F. Kuo, "An Adaptive Contention Control Strategy for IEEE 802.15.4-based Wireless Sensor

- Networks," *IEEE Transactions on Vehicular Technology*, vol. 58, no. 9, pp. 5164-5173, November 2009. (SCI/EI, Rank: 17/76 (22.3%, 2009) in Telecommunications) NSC97-2221-E-182-035-MY2 [S:0.4] [[pdf](#)]
16. **Jenhui Chen*** and C.-C. Wang, "Cross-Layer Cut-Through Switching Mechanism for IEEE 802.16d/e Wireless Networks," *IEEE Communications Letters*, vol. 13, no. 10, pp. 779-781, October 2009. (SCI/EI, Rank: 24/77 (31.1%, 2009) in Telecommunications) NSC97-2221-E-182-035-MY2 [S:2] [[pdf](#)]
 17. **Jenhui Chen*** and H.-Y. Lin, "An Efficient Data Burst Transmission Mechanism for Wireless LANs," *WSEAS Transactions on Computers*, vol. 6, no. 10, pp. 1104-1110, October 2007. (EI) [S:1.4] [[pdf](#)]
 18. **Jenhui Chen*** and W.-K. Tan, "Predictive Dynamic Channel Allocation Scheme for Improving Power Saving and Mobility in BWA Networks," *ACM/Springer Mobile Networks and Applications (MONET)*, vol. 12, no. 1, pp. 15-30, February 2007. Special Issue on Next Generation Wireless Technologies. (SCI/EI, Rank: 14/57, Telecommunications) NSC93-2213-E-182-022 [S:2] [[pdf](#)]
 19. **Jenhui Chen*** and C.-C. J. Chou, "Autonomous Clustering and Message Passing Protocol for Energy Efficiency in Wireless Sensor Networks," *International Journal of Pervasive Computing and Communications*, vol. 2, no. 4, pp. 332-341, December 2006. Special Issue on Key Technologies and Applications of Wireless Sensor and Body-area Networks. NSC94-2213-E-182-006 [[pdf](#)]
 20. **Jenhui Chen***, C.-C. Wang, and J.-D. Lee, "Geographic Channel Assignment Framework for Broadband Wireless Access Networks," *IEICE Transactions on Communications*, vol. E89-B, no. 11, pp. 3160-3163, November 2006. (SCI/EI, Rank: 37/59) NSC94-2213-E-182-006 [[pdf](#)]
 21. W.-H. Hsu, **Jenhui Chen***, S.-T. Sheu, and C.-F. Chao, "SBMT-Steiner Backup Multicast Tree," *ACTA International Journal of Computers and Applications*, vol. 28, no. 2, pp. 87-98, April 2006. (EI) [[pdf](#)]
 22. **Jenhui Chen*** and S.-T. Sheu, "A Reliable Broadcast/Multicast MAC Protocol for Multi-hop Mobile Ad Hoc Networks," *IEICE Transactions on Communications*, vol. E89-B, no. 3, pp. 867-878, March 2006. (SCI/EI, Rank: 37/59, Telecommunications) NSC93-2213-E-182-022 [[pdf](#)]
 23. **Jenhui Chen***, A.-C. Pang, S.-T. Sheu, and H.-W. Tseng, "High Performance Wireless Switch Protocol for IEEE 802.11 Wireless Networks," *ACM/Springer Mobile Networks and Applications (MONET)*, vol.10, no. 5, pp. 741-751, October 2005. Special Issue on WLAN

- Optimization at the MAC and Network Levels. (SCI/EI, Rank: 14/57, Telecommunications) NSC92-2213-E-182-024 [[pdf](#)]
24. **Jenhui Chen*** and M. Huang, "A Broadcast Engagement ACK Mechanism for Reliable Broadcast Transmission in Mobile Ad Hoc Networks," *IEICE Transactions on Communications*, vol. E88-B, no. 9, pp. 3570-3578, September 2005. Special Issue on Advances in Ad Hoc Mobile Communications and Networking (SCI/EI, Rank: 36/57, Telecommunications) NSC93-2622-E-182-009-CC3 [[pdf](#)]
 25. **Jenhui Chen*** and S.-T. Sheu, "Distributed Multichannel MAC Protocol for IEEE 802.11 Ad Hoc Wireless LANs," *Computer Communications*, vol. 28, no. 9, pp. 1000-1013, June 2005. (SCI/EI, Rank: 23/57, Telecommunications) NSC93-2622-E-182-009-CC3 [[pdf](#)]
 26. **Jenhui Chen***, C.-C. Chiou, and S.-L. Wu, "A Fast Path Recovery Mechanism for MPLS Networks," *Lecture Notes in Computer Science (LNCS)*, vol. 3421, pp. 58-65, Springer-Verlag, March 2005. (SCI/EI, Rank: 53/70, Computer Science, Theory & Methods) NSC93-2213-E-182-022 [[pdf](#)]
 27. **Jenhui Chen***, S.-T. Sheu, and S.-K. Shen, "A Preemptive Priority Scheme for Collision Resolution in HFC Networks," *IEICE Transactions on Communications*, vol. E87-B, no. 10, pp. 2859-2870, October 2004. (SCI/EI, Rank: 24/53, Telecommunications) [[pdf](#)]
 28. S.-T. Sheu, **Jenhui Chen***, Y.-D. Wang, and H.-C. Yin, "Adaptive Rate Controller for Mobile Ad Hoc Networks," *International Journal of Mobile Communications*, vol. 1, no. 3, pp. 312-328, September 2003. (EI) [[pdf](#)]
 29. F. Ye, S.-T. Sheu, T. Chen, and **Jenhui Chen**, "The Impact of RTS Threshold on IEEE 802.11 MAC Protocol," *Tamkang Journal of Science and Engineering*, vol. 6, no. 1, pp. 57-63, March 2003. (EI) [[pdf](#)]
 30. S.-T. Sheu, Y. Tsai, and **Jenhui Chen**, "MR²RP: The Multi-Rate and Multi-Range Routing Protocol for IEEE 802.11 Ad Hoc Wireless Networks," *ACM/Kluwer Wireless Networks (WINET)*, vol. 9, no. 2, pp. 165-177, March 2003. Special Issue on Advances in Mobile and Wireless Systems (SCI/EI, Rank: 9/57, Telecommunications) NSC89-2218-E-032-012 [[pdf](#)]
 31. S.-T. Sheu and **Jenhui Chen**, "Performance Analysis of Multicast MAC Protocol for Multichannel Dual Bus Networks," *Lecture Notes in Computer Science (LNCS)*, vol. 2343, pp. 419-430, Springer-Verlag, September 2002. (SCI/EI, Rank: 13/59, Computer Science, Theory & Methods) [[pdf](#)]
 32. S.-T. Sheu, Y. Tsai, and **Jenhui Chen**, "Delay-Oriented Routing Protocol for Wireless Ad Hoc Networks," *IEICE Transactions on Communications*, vol.

E84-B, no. 6, pp. 1581-1587, June 2001. Special Issue on New Developments on QoS Technologies for Information Networks (SCI/EI, Rank: 24/53, Telecommunications) [[pdf](#)]

33. **J. Chen** and C.-C. Wang, "Measured Signal-Aware Mechanism for Fast Handover in WiMAX Networks," *The WiMAX Handbook*, CRC Press, 2007. (book chapter)
34. S.-T. Sheu, **J. Chen**, and S.-L. Wu, "Autonomous Swarm-bot Systems for Wireless Sensor Networks," *Wireless Ad Hoc Networking: Personal-Area, Local-Area, and their Sensory-Area Networks*, CRC Press, 2007. (book chapter)
35. **Jenhui Chen** and Yenhan Lai, "A Study of CSMA-Based and Token-Based Wireless Interconnects Network-on-Chips," in *Proc. ICCP&HSIC 2014*, Huairou, Beijing, China, December 5-7, 2014.
36. **Jenhui Chen**, Chin-Yang Sheng, and Yu-Fang Hsiao, "Handover Decision Making in Two-Tier Heterogeneous Cellular Networks," in *Proc. HSIC 2013 in conjunction with ICCP 2013*, Jiuzhai Valley, China, October 26-29, 2013.
37. **Jenhui Chen**, Woei-Hwa Tarn, and Jiann-Der Lee, "Fairness Consideration of Bandwidth Scheduling for Real-Time Services in IEEE 802.16m Wireless Networks," in *Proc. HSIC 2013 in conjunction with ICCP 2013*, Jiuzhai Valley, China, October 26-29, 2013.
38. **Jenhui Chen** and Yu-Chin Lin, "Dynamic Bandwidth Scheduling Algorithm for Real-Time VBR Services in IEEE 802.16m Communication Systems: Using Contribution Approach," *2012 International Conference on Telecommunication Systems, Modeling and Analysis (ICTSM2012)*, Prague, Czech Republic, May 24-26, 2012.
39. Shiann-Tsong Sheu, Luwei Chen, and **Jenhui Chen**, "Advanced Power Saving Mechanism in IEEE 802.16m Wireless Metropolitan Area Networks," in *Proc. IEEE VTC2012-Spring*, Yokohama, Japan, May 6-9, 2012.
40. **Jenhui Chen** and I Chang, "Max-Min Burst-Block Construction Algorithm for Burst Mapping Problem in IEEE 802.16e System," in *Proc. HSIC 2011*, Hong Kong, China, May 29-31, 2011. NSC99-2221-E-182-038
41. **Jenhui Chen** and Yu-Lin Li, "Adaptive Traffic Indication Algorithm for Energy Efficiency in IEEE 802.16e Systems," in *Proc. CHINACOM 2010*, Beijing, China, August 25-27, 2010. NSC97-2221-E-182-035-MY2. doi: 10.13140/2.1.1216.0962

42. **Jenhui Chen**, Chih-Chieh Wang, and Jiann-Der Lee, "Cross-Layer End-to-End Label Switching Protocol with QoS Mapping for WiMAX-MPLS Integrated Networks," in *Proc. HSIC 2010*, Singapore, May 12-15, 2010.
43. **Jenhui Chen** and Jia-You Wu, "A Downlink Delay-Minimized Scheduling Scheme for OFDMA WiMAX Systems," in *Proc. Int'l Workshop on Data Management in Ad Hoc and Pervasive Computing (DMAHPC)*, (in conjunction with **IEEE MDM 2009**), Taipei, Taiwan, May 18-20, 2009. NSC97-2221-E-182-035-MY2
44. **Jenhui Chen**, Yu-Lin Li, and Hua-Chiang Yin, "Adaptive Traffic Indication Algorithm for Energy Efficiency in IEEE 802.16e Systems," in *Proc. WASN 2008*, Tainan, Taiwan, September 4-5, 2008. NSC97-2221-E-182-035-MY2
45. **Jenhui Chen**, Jia-You Wu, and Hua-Chiang Yin, "A Downlink Delay-Minimized Scheduling Scheme for OFDMA WiMAX Systems," in *Proc. WASN 2008*, Tainan, Taiwan, September 4-5, 2008. NSC97-2221-E-182-035-MY2
46. **Jenhui Chen**, Ying-Chie Tseng, Wei-Hsuan Tai, and Hua-Chiang Yin, "Bidirectional Power Saving Scheme for IEEE 802.16e Systems," in *Proc. IEEE APWCS 2008*, Sendai, Japan, August 21-22, 2008. NSC96-2221-E-182-004
47. Yu-Jen Lee, **Jenhui Chen**, and Hua-Chiang Yin, "A Relay-based Architecture for IEEE 802.16 Wireless Backhaul Networks," in *Proc. IEEE APWCS 2008*, Sendai, Japan, August 21-22, 2008. NSC96-2221-E-182-004
48. **Jenhui Chen**, Syao-Syuan Liu, and Chih-Chieh Wang, "Fault-Tolerant Transmission Mechanism for IEEE 802.16e OFDMA Systems," in *Proc. ICST QShine 2008*, Hong Kong, China, July 28-31, 2008. NSC96-2221-E-182-004
49. **Jenhui Chen** and Chiang-Wei Chang, "A Novel Signal-Aware Uplink Resource Allocation Strategy in IEEE 802.16 System," in *Proc. IEEE WiMob 2007*, New York, USA, October 8-10, 2007. NSC95-2221-E-182-023
50. **Jenhui Chen** and Jui-Hsiang Sun, "Low Buffering and Waiting Time Video on Demand Broadcasting Scheme for WiMAX Systems," in *Proc. ACM MobiMedia 2007*, Nafpaktos, Greece, August 27-29, 2007. NSC95-2221-E-182-023
51. **Jenhui Chen**, Chih-Chieh Wang, and Jiann-Der Lee, "Pre-Coordination Mechanism for Fast Handover in WiMAX Networks," in *Proc. AusWireless2007*, Sydney, Australia, August 27-30, 2007. NSC95-2221-E-182-023
52. **Jenhui Chen** and Chiang-Wei Chang, "Traffic-Variation-Aware Connection Admission Control Mechanism for Polling Services in IEEE 802.16

- Systems," in *Proc. IEEE/IFIP Wireless and Optical Communications Networks (WOCN2007)*, Singapore, July 2-4, 2007. NSC95-2221-E-182-023
53. **Jenhui Chen** and Chiang-Wei Chang, "Signal-Aware Uplink Resource Allocation Strategy in IEEE 802.16 Systems," in *Proc. Mobile Computing 2007*, pp. 197-201, Changhua, Taiwan, April 20, 2007. NSC95-2221-E-182-023
 54. **Jenhui Chen**, Chih-Chieh Wang, Frank Chee-Da Tsai, Chiang-Wei Chang, Syao-Syuan Liu, Jhenjhong Guo, Wei-Jen Lien, Jui-Hsiang Sun, and Chih-Hsin Hung, "The Design and Implementation of WiMAX Module for ns-2 Simulator," in *Proc. ACM VALUETOOLS 2006*, vol. 202, article 5, Pisa, Italy, October 10, 2006. [\[ACM digital library: 7,006 download times\]](#)
 55. **Jenhui Chen** and Shuhua Jiang, "Improvement of Slots Utilization with a Stealing-TDMA Protocol for Ad Hoc Networks," in *Proc. IEEE VTC 2006-Fall*, Montreal, Canada, September 25-28, 2006. (EI) (Accepted Rate: 57%) NSC94-2213-E-182-006
 56. **Jenhui Chen** and Shuhua Jiang, "Analysis and Implementation of Time-Slot Allocation in TDMA System with Limited Queue Constraint in WLANs," in *Proc. IEEE VTC 2006-Fall*, Montreal, Canada, September 25-28, 2006. (EI) (Accepted Rate: 57%) NSC94-2213-E-182-006
 57. Frank Chee-Da Tsai, **Jenhui Chen**, Chiang-Wei Chang, Wei-Jen Lien, Chih-Hsin Hung, and Jui-Hsiang Sun, "The Design and Implementation of WiMAX Module for ns-2 Simulator," in *Proc. Wksp. Wirel., Ad Hoc, Sensor Networks (WASN 2006)*, pp. 281-288, Chung-Li, Taiwan, August 10, 2006. NSC95-2221-E-182-023 **Best Paper Award**
 58. **Jenhui Chen**, Jhenjhong Guo, and Chih-Chieh Wang, "M3RP: Multi-rate/Multi-range Multicast Routing Protocol for Mobile Ad Hoc Networks," in *Proc. IEEE VTC 2006-Spring*, Melbourne, Australia, May 7-10, 2006. (EI) (Accepted Rate: 47%) NSC94-2213-E-182-006 [pdf]
 59. **Jenhui Chen**, Jui-Hsiang Sun, Jia-You Wu, and Shuhua Jiang, "Indoor Positioning System: A Received Signal Strength Indication Approach for Wireless Sensor Networks," in *Proc. Mobile Computing 2006*, pp. 437-442, March 31, 2006. NSC94-2213-E-182-006
 60. **Jenhui Chen** and Shuhua Jiang, "Determination of Approximate Optimal Periods in TDMA Wireless Access Systems," in *Proc. Mobile Computing 2006*, pp. 432-436, March 31, 2006. NSC94-2213-E-182-006 [pdf] **Best Paper Award**
 61. **Jenhui Chen**, Wei-Kuang Tan, and Chih-Chieh Wang, "MCAS: A Macrocell Channel Allocation Scheme for Broadband Wireless Access Networks,"

- in *Proc. IEEE/ACM WiMob'2005*, vol. 1, pp. 107-114, Montreal, Canada, August 22-24, 2005. NSC93-2213-E-182-022 [[pdf](#)]
62. **Jenhui Chen** and Jiaxing Xu, "Autonomous Clustering and Message Passing Protocol for Energy Efficiency in Wireless Sensor Networks," in *Proc. Wksp. Wirel., Ad Hoc, Sensor Networks (WASN 2005)*, pp. 75-82, Chung-Li, Taiwan, August 1-2, 2005. [[pdf](#)] **Best Paper Award**
 63. Ying-Hong Wang, **Jenhui Chen**, and Chih-Feng Chao, "A Dynamic Caching Mechanism for Mobile Ad Hoc Networks," in *Proc. IEEE ICPADS 2005*, pp. 310-314, Fukuoka, Japan, July 20-22, 2005. (EI) [[pdf](#)]
 64. Ying-Hong Wang, **Jenhui Chen**, Chih-Feng Chao, and Chien-Min Lee, "A Transparent Cache-based Mechanism for Mobile Ad Hoc Networks," in *Proc. the 3rd Int. Conf. Info. Tech. Appl. (IEEE ICITA'2005)*, vol. 2, pp. 305-310, Sydney, Australia, July 4-7, 2005. (Accepted Rate: 33%) [[pdf](#)]
 65. **Jenhui Chen** and Li-Ren Li, "Path Planning Protocol for Collaborative Multi-robot Systems," in *Proc. 6th IEEE Int. Symp. Computational Intelligence in Robotics and Automation (IEEE CIRA 2005)*, pp.721-726, Espoo, Finland, June 27-30, 2005. (EI) NSC93-2213-E-182-022 [[pdf](#)]
 66. Chih-Feng Chao, Ying-Hong Wang, **Jenhui Chen**, and Yi-Chein Lin, "A Cache Sharing Interface for Data Access in Mobile Ad Hoc Networks," in *Proc. IEEE Int. Conf. Information Technology: Research and Education (IEEE ITRE 2005)*, pp. 78-82, Hsinchu, Taiwan, June 27-30, 2005. [[pdf](#)]
 67. **Jenhui Chen**, Chung-Ching Chiou, and Shih-Lin Wu, "A Fast Path Recovery Mechanism for MPLS Networks," in *Proc. 4th Int'l Conf. Networking (ICN'05)*, Reunion Island, France, April 17-21, 2005. (Accepted Rate: 38.1%) NSC93-2213-E-182-022 [[pdf](#)]
 68. **Jenhui Chen** and Wei-Kuang Tan, "A Novel Predictive Dynamic Channel Allocation Scheme for Improving Power Saving and Mobility in Broadband Wireless Access Networks," in *Proc. Mobile Computing 2005*, pp. 160-169, Taoyuan, Taiwan, March 31, 2005. [[pdf](#)] **Best Paper Award**
 69. **Jenhui Chen**, Chengwei Ting, and Jhenjhong Guo, "M3RP: Multi-rate/Multi-range Multicast Routing Protocol for Mobile Ad Hoc Networks," in *Proc. Mobile Computing 2005*, pp. 469-478, Taoyuan, Taiwan, March 31, 2005. [[pdf](#)] **Best Paper Award**
 70. **Jenhui Chen** and Wei-Kuang Tan, "AMNP: Ad Hoc Multichannel Negotitation Protocol with Broadcast Solutions for Multihop Mobile Wireless Networks," in *Proc. Mobile Computing 2005*, pp. 170-179, Taoyuan, Taiwan, March 31, 2005. [[pdf](#)]

71. Ying-Hong Wang, **Jenhui Chen**, Chih-Feng Chao, and Chih-Chieh Chuang, "A Distributed Data Caching Framework for Mobile Ad Hoc Networks," in *Proc. Mobile Computing 2005*, pp. 479-484, Taoyuan, Taiwan, March 31, 2005. [[pdf](#)]
72. **Jenhui Chen** and Chien-An Lin, "HMM: Hybrid Multipolling Mechanism with Pre-allocation Admission Control for Real-Time Transmissions in WLANs," in *Proc. IEEE VTC 2004-Fall*, vol. 4, pp. 3040-3044, Los Angeles, CA, September 26-29, 2004. (EI) [[pdf](#)]
73. **Jenhui Chen** and Wenchiao Wu, "Dynamic Contention Window Selection Scheme to Achieve a Theoretical Throughput Limit in Wireless Networks: A Fuzzy Reasoning Approach," in *Proc. IEEE VTC 2004-Fall*, vol. 5, pp. 3196-3200, Los Angeles, CA, September 26-29, 2004. (EI) [[pdf](#)]
74. **Jenhui Chen** and Muwen Huang, "BEAM: Broadcast Engagement ACK Mechanism to Support Reliable Broadcast Transmission in IEEE 802.11 Wireless Ad Hoc Networks," in *Proc. IEEE VTC 2004-Fall*, vol. 4, pp. 2838-2842, Los Angeles, CA, September 26-29, 2004. (EI) [[pdf](#)]
75. **Jenhui Chen**, Shiann-Tsong Sheu, and Sheng-Kun Shen, "A Preemptive Priority Scheme for Collision Resolution in HFC Networks," in *Proc. IASTED Commun. Syst. and Appl. (CSA)*, Banff, AB, Canada, July 8-10, 2004. [[pdf](#)]
76. **Jenhui Chen** and Ying-Da Chen, "AMNP: Ad Hoc Multichannel Negotiation Protocol for Multihop Wireless Networks," in *Proc. IEEE ICC 2004*, vol. 6, pp. 3607-3612, Paris, France, June 20-24, 2004. (EI) (Accepted Rate: 26.3%) NSC92-2213-E-182-024 [[pdf](#)]
77. **Jenhui Chen**, Shih-Lin Wu, and Xiang-Jing Liao, "An Architecture of Multipath Bandwidth Integration: A Case Study of Community," in *Proc. the 2003 Cross-Strait Information Technology Conference*, pp. 380-385, Chung-Li, Taiwan, November 24-25, 2003. [[pdf](#)]
78. Shih-Lin Wu, Chung-Ching Chiou, **Jenhui Chen**, and Tai-June Chen, "Area-Based Routing Protocol in Mobile Ad Hoc Networks," in *Proc. The 2003 Cross-Strait Information Technology Conference*, pp. 358-363, Chung-Li, Taiwan, November 24-25, 2003. [[pdf](#)]
79. **Jenhui Chen**, Shiann-Tsong Sheu, and Chin-An Yang, "A New Multichannel Access Protocol for IEEE 802.11 Ad Hoc Wireless LANs," in *Proc. IEEE PIMRC 2003*, pp. 2291-2296, Beijing, China, September 7-10, 2003. (EI) (Accepted Rate: 36.5%) NSC92-2213-E-182-024 [[pdf](#)]
80. **Jenhui Chen**, Chung-Ching Chiou, Shih-Lin Wu, Cheng-Yi Lin, and Shiann-Tsong Sheu, "An Efficient Path Recovery Mechanism for LDP in

- MPLS Networks," in *Proc. 7th WSEAS Int'l Conf. on Commun.*, pp. 331-336, Corfu Island, Greece, July 7-10, 2003. [[pdf](#)]
81. Shih-Lin Wu, Chung-Ching Chiou, **Jenhui Chen**, Tai-Jiun Chen, and Shiann-Tsong Sheu, "Robust Path Routing Protocol in Mobile Ad Hoc Networks," in *Proc. 7th WSEAS Int'l Conf. on Commun.*, pp. 344-349, Corfu Island, Greece, July 7-10, 2003. [[pdf](#)]
 82. Shiann-Tsong Sheu, **Jenhui Chen**, and Hsuen-Wen Tseng, "Wireless Switch Protocol," in *Proc. IEEE ICC 2003*, vol. 1, pp. 127-131, Anchorage, Alaska, May 11-15, 2003. (EI) (Accepted Rate: 37.5%) [[pdf](#)]
 83. Shiann-Tsong Sheu, **Jenhui Chen**, Hsueh-Wen Tseng, and Hsien-Ta Chiang, "A Safe Multiple Access-Rates Transmission (SMART) Scheme for IEEE 802.11 Wireless Networks," in *Proc. 2003 IEEE Int. Conf. Advanced Info. Networking Appl. (IEEE AINA 2003)*, pp. 172-175, Xian, China, March 27-29, 2003. IEEE press. (EI) [[pdf](#)]
 84. Shiann-Tsong Sheu, **Jenhui Chen**, and Tobias Chen, "Data Flushing Data Transfer Protocol for IEEE 802.11 Ad Hoc Wireless Network," in *Proc. IEEE WCNC 2003*, vol. 3, pp. 1533-1537, New Orleans, Louisiana, March 16-20, 2003. (EI) (Accepted Rate: 29.4%) [[pdf](#)]
 85. Shiann-Tsong Sheu, Tobias Chen, **Jenhui Chen**, and Fun Ye, "The Impact of RTS Threshold on IEEE 802.11 MAC Protocol," in *Proc. the 9th Int. Conf. Parallel Distrib. Syst. (IEEE ICPADS 2002)*, pp. 267-272, Chung-Li, Taiwan, December 17-20, 2002. (EI) [[pdf](#)]
 86. Shiann-Tsong Sheu, Tobias Chen, **Jenhui Chen**, and Fun Ye, "An Improved Data Flushing MAC Protocol for IEEE 802.11 Wireless Ad Hoc Network," in *Proc. IEEE VTC 2002-Fall*, vol. 4, pp. 2435-2439, Vancouver, BC, Canada, September 24-28, 2002. (EI) (Accepted Rate: 39.3%) [[pdf](#)]
 87. Shiann-Tsong Sheu and **Jenhui Chen**, "MR²RP: The Multi-Rate and Multi-Range Routing Protocol for Ad Hoc Wireless Networks," in *Proc. 7th IEEE Symp. Comput. and Commun. (ISCC 2002)*, pp. 435-440, Taormina, Italy, July 1-4, 2002. (EI) (Accepted Rate: 55%) [[pdf](#)]
 88. Shiann-Tsong Sheu, Yihjia Tsai, and **Jenhui Chen**, "A Highly Reliable Broadcast Scheme for IEEE 802.11 Multi-hop Ad Hoc Networks," in *Proc. IEEE ICC 2002*, vol. 1, pp. 610-615, New York, April 28-May 2, 2002. (EI) (Accepted Rate: 41.8%) [[pdf](#)]
 89. Shiann-Tsong Sheu and **Jenhui Chen**, "Performance Analysis of Multicast MAC Protocol for Multichannel Dual Bus Networks," in *Proc. the 16th Int. Conf. Inform. Networking (ICOIN-16)*, vol. 3, pp. A8-1-11, Cheju Island, Korea, January 30-February 1, 2002. [[pdf](#)]

90. Shiann-Tsong Sheu, **Jenhui Chen**, and Yung-Da Wang, "An Intelligent Modulation Controller with Fuzzy Function for IEEE 802.11 Multi-Rate/Range Transmission," in *Proc. the 9th National Conf. Fuzzy Theory and Its Applications 2001*, pp. 594-597, Chung-Li, Taiwan, November 2001. [[pdf](#)]
91. Shiann-Tsong Sheu, **Jenhui Chen**, and Yung-Da Wang, "An Intelligent Modulation Controller with Fuzzy Function for IEEE 802.11 Multi-Rate/Range Transmission," in *Proc. the 3rd IEEE Wksp. Wireless Local Area Networks*, Session 5, Boston, MA, September 27-28, 2001. [[pdf](#)] [[hyperlink](#)]
92. Shiann-Tsong Sheu and **Jenhui Chen**, "A Novel Delay-Oriented Shortest Path Routing Protocol for Mobile Ad Hoc Networks," in *Proc. IEEE ICC 2001*, vol. 6, pp. 1930-1934, Helsinki, Finland, June 11-14, 2001. (EI) (Accepted Rate: 54.8%) [[pdf](#)]
93. Shiann-Tsong Sheu, Ming-Kai Hsueh, and **Jenhui Chen**, "An Intelligent Cell Checking Policy for Promoting Data Transfer Performance in Wireless ATM Networks," in *Proc. IEEE ATM Workshop*, pp. 239-244, Kochi, Japan, May 24-27, 1999. (EI) [[pdf](#)]