99 年 4 月 通過 學術審查

92 學年度碩士入學，93 學年度上學期直升(博六)

Journal Paper

1. ***K.-W. Cheng*** and J.-C. Chen, “Design and analysis of cooperative mobile multicast protocol (CMMP) for intermittent network connectivity,” IEEE Transactions on Wireless Communications, vol. 8, no. 6, pp. 2881-2891, June 2009. (SCI, EI) [5-Year Impact factor: 3.324]
2. J.-F. Weng, J.-C. Chen, and ***K.-W. Cheng***, “Comparative study of broadcast and multicast in 3GPP and 3GPP2 networks,” Computer Communications, Elsevier, vol. 31, no. 17, pp. 4220-4229, Nov. 2008. (SCI, EI) [5-Year Impact factor: 1.005]
3. J.-C. Chen and ***K.-W. Cheng***, “EDCA/CA: enhancement of IEEE 802.11e EDCA by contention adaption for energy efficiency,” IEEE Transactions on Wireless Communications, vol. 7, no. 8, pp. 2866-2870, Aug. 2008. (SCI, EI) [5-Year Impact factor: 3.324, Google scholar citation: 7]

Conference papers

1. ***K.-W. Cheng*** and J.-C. Chen, “Dynamic pre-allocation HARQ (DP-HARQ) in IEEE 802.16j mobile multihop relay (MMR),” in Proc. of IEEE International Conference on Communications (ICC ’09), (Dresden, Germany), June 2009. [Accept Ratio = 34.9%]

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Journal papers

1. **Tuan-Che Chen**, Jyh-Cheng Chen and Zong-Hua Liu, "Secure Network Mobility (SeNEMO) for Real-Time Applications," *IEEE Transactions on Mobile Computing*, under revision, Mar. 2010. (SCI, EI) [Impact factor: 3.352]
2. Zong-Hua Liu, Jyh-Cheng Chen, and **Tuan-Che Chen**, "Design and analysis of SIP-based mobile VPN for real-time applications," *IEEE Transactions on Wireless Communications*, vol. 8, no. 11, pp. 5650-5661, Nov. 2009. (Full paper) (SCI, EI) [Impact factor: 2.181]
3. **Tuan-Che Chen**, Jyh-Cheng Chen and Ying-Yu Chen, "Maximizing Unavailability Interval for Energy Saving in IEEE 802.16e Wireless MANs," *IEEE Transactions on Mobile Computing*, vol. 8, no. 4, pp. 475-487, Apr, 2009. (SCI, EI) [Impact factor: 3.352]
4. **Tuan-Che Chen** and Jyh-Cheng Chen, "Extended maximizing unavailability interval (eMUI): maximizing energy saving in IEEE 802.16e for mixing type I and type II PSCs," *IEEE Communications Letters*, vol. 13, no. 2, pp. 151-153, Feb, 2009. (SCI, EI) [Impact factor: 1.232]
5. **Tuan-Che Chen**, Ying-Yu Chen and Jyh-Cheng Chen, "An Efficient Energy Saving Mechanism for IEEE 802.16e Wireless MANs," *IEEE Transactions on Wireless Communications*, vol. 7, no. 10, pp. 3708-3712, Oct, 2008. (SCI, EI) [Impact factor: 2.181]

Conference papers

1. Jyh-Cheng Chen, **Tuan-Che Chen**, Tao Zhang and Eric van den Berg, "Effective AP Selection and Load Balancing in IEEE 802.11 Wireless LANs," in *Proc. of Global Telecommunications Conference, 2005. GLOBECOM '06. IEEE*, (San Francisco, CA, USA), Nov. 2006. (EI) [Acceptance rate: 1027/2548 = 40.2%]
2. Youn-Tai Lee, **Tuan-Che Chen**, Siao-Ting Wang, Shin-Ying Pan and Jyh-Cheng Chen, "SIP-based fast handoff over IEEE 802.16e," in *The 2nd Workshop on Wireless Ad Hoc and Sensor Networks (WASN 2006)*, Aug. 2006.

Patents

1. **Tuan-Che Chen**, Ying-Yu Chen and Jyh-Cheng Chen, "An Energy Saving Mechanism for IEEE 802.16e Wireless MANs", *pending US and ROC patents*, Aug. 8, 2008.
2. Jui-Hung Kao, **Tuan-Che Chen**, Zong-Hua Liu, Kai-Hsiu Chen, and Jyh-Cheng Chen, "Device and method for security reconfiguration", *pending US and ROC patents*, May 24, 2007.

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93學年度碩士入學，94學年度上學期直升博士班 (博五)

IEEE Journal Papers

1. **Jyu-Yuan Lai** and Chih-Tsun Huang, "Elixir: High-Throughput Cost-Effective Dual-Field Processors and the Design Framework for Elliptic Curve Cryptography," *IEEE Trans. on Very Large Scale Integration (VLSI) Systems*, vol. 16, no. 11, pp. 1567-1580, November 2008.
    - **Top journal in VLSI area**
    - **JCR impact factor: 1.373**
    - **Academic index: SCIE, EI**

2. **Jyu-Yuan Lai** and Chih-Tsun Huang, "A Highly Efficient Cipher Processor for Dual-Field Elliptic Curve Cryptography," *IEEE Trans. on Circuits and Systems-II: Express Briefs*, vol. 56, no. 5, pp. 394-398, May 2009.
    - **Top journal in VLSI area**
    - **JCR impact factor: 1.436**
    - **Academic index: SCI, SCIE, EI**

3. **Jyu-Yuan Lai** and Chih-Tsun Huang, "Energy-Adaptive Dual-Field Processor for High-Performance Elliptic Curve Cryptographic Applications," *IEEE Trans. on Very Large Scale Integration (VLSI) Systems*, accepted.
    - **Top journal in VLSI area**
    - **JCR impact factor: 1.373**
    - **Academic index: SCIE, EI**

IEEE Conference Papers

1. **Jyu-Yuan Lai**, Tzu-Yu Hung, Kai-Hsiang Yang, and Chih-Tsun Huang, "High-Performance Architecture for Elliptic Curve Cryptography over Binary Field," in *Proceedings of International Symposium on Circuits and Systems (ISCAS)*, 2010, accepted.

IEEE Journal Papers (submitted)

1. **Jyu-Yuan Lai**, Shuo-Hung Chen, and Chih-Tsun Huang, "Methodology of Design Space Exploration for High-Performance Elliptic Curve Cryptographic Processors," *IEEE Trans. on Very Large Scale Integration (VLSI) Systems*, submitted.

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1. Tuan-Che Chen, Jyh-Cheng Chen, and **Zong-Hua Liu**, "Secure Network Mobility (SeNEMO) for Real-Time Applications," *IEEE Transactions on Mobile Computing*, under revision, Mar. 2010. (SCI, EI) [Impact factor=3.352]

2. **Zong-Hua Liu**, Jyh-Cheng Chen, and Tuan-Che Chen, "Design and Analysis of SIP-based Mobile VPN for Real-Time Applications," *IEEE Transactions on Wireless Communications*, vol. 8, no. 11, pp. 5650-5661, Nov. 2009. (Full paper) (SCI, EI) [Impact factor: 2.181]

3. Jyh-Cheng Chen, Venkatesh Sarangan, Anthony McAuley, Shinichi Baba, Yoshihiro Ohba, and **Zong-Hua Liu**, "Design and Implementation of Dynamic Service Negotiation Protocol (DSNP) ," *ELSEVIER Computer Communications*, vol. 29, no. 16, pp. 3250-3264, Oct. 2006. (SCI, EI) [Impact factor: 0.884]

Conference papers

1. **Zong-Hua Liu**, Shin-Ying Pan, and Jyh-Cheng Chen, "Access Service Network (ASN) Gateway Relocation Algorithms in WiMAX Networks," *in Proc. of IEEE International Conference on Communications(ICC '08)*, pp. 2674-2679, 19-23 May. 2008. (EI) [Acceptance rate: 1102/3135 = 35.2%]

2. Shun-Chao Huang, **Zong-Hua Liu**, and Jyh-Cheng Chen, "SIP-based Mobile VPN for Real-Time Applications," *in Proc. of IEEE Wireless Communications and Networking Conference (WCNC'05)*, vol.4, pp. 2318-2323, 13-17 Mar. 2005. (EI) [Acceptance rate<27%]

Patents

1. **Zong-Hua Liu**, Jyh-Cheng Chen, and Shin-Ying Pan, "Network gateway and method for relocating the same," *pending US and ROC patents*, Feb. 25, 2008.

2. Jui-Hung Kao, Tuan-Che Chen, **Zong-Hua Liu**, Kai-Hsiu Chen, and Jyh-Cheng Chen, "Device and method for security reconfiguration," *pending US and ROC patents*, May 24, 2007.

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Journal papers

1. Pei-Chi Huang, Hsin-Wen Wei, Wan-Chen Lu, Wei-Kuan Shih, and Tsan-sheng Hsu, “Smallest Bipartite Bridge-connectivity Augmentation,” *Algorithmica* 54(3): 353-378, 2009. [SCI: Impact Factor = 0.825, EI]

2. Yen-Chiu Chen, Hsin-Wen Wei, Pei-Chi Huang, Wei-Kuan Shih, Tsan-sheng Hsu, “The Bridge-connectivity Augmentation Problem with a Partition Constraint,” *Theoretical Computer Science* (to appear). [SCI: Impact Factor = 0.806, EI]

Conference papers

1. Pei-Chi Huang, Hsin-Wen Wei, Yen-Chiu Chen, Ming-Yang Kao, Wei-Kuan Shih and Tsan-sheng Hsu, “Two-Vertex Connectivity Augmentations for Graphs with a Partition Constraint,” *Proceedings of the 20th International Symposium on Algorithms and Computation (ISAAC 2009)*, Springer-Verlag LNCS# 5878, pp. 1195-1204, Hawaii, USA, December 16-18, 2009.

2. Pei-Chi Huang, Hsin-Wen Wei, Wan-Chen Lu, Wei-Kuan Shih, and Tsan-sheng Hsu, “Smallest Bipartite Bridge-Connectivity Augmentation (Extended Abstract),” *the 3rd International Conference on Algorithmic Aspects in Information and Management (AAIM 2007)*, LNCS# 4508, pp. 153-166, Portland, USA, June 6-8, 2007. (EI)

3. Pei-Chi Huang, Wan-Chen Lu, Chun-Nan Chou, and Wei-Kuan Shih, “The NP-Hardness and the Algorithm for Real-Time Disk-Scheduling in a Multimedia System,” *the 11th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (IEEE RTCSA 2005)*, pp. 260-265, Hong Kong, China, August 17-19, 2005. [EI]

4. Hsin-Wen Wei, Pei-Chi Huang, and Wei-Kuan Shih, “Scheduling Real-Time Information in a Broadcast System with Non-Real-Time Information,” *the 11th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (IEEE RTCSA 2005)*, Hong Kong, China, August 17-19, 2005. [EI]