

99年9月通過學術審查

91 學年度入學 (博七)

Journal Papers:

1. **Yi-Hsuan Feng**, Nen-Fu Huang, Yen-Min Wu, "HALR: A TCP Enhancement Scheme Using Local Caching in High-Availability Cluster," **IEICE Transactions on Communications**, E92.B(1), 26-33, 2009 (SCI).
2. **Yi-Hsuan Feng**, Nen-Fu Huang, Yen-Min Wu, "Efficient and Adaptive Stateful Replication for Stream Processing Engines in High-Availability Cluster," submitted to **IEEE Transactions on Parallel and Distributed Systems**, under review of major revision.
3. Nen-Fu Huang and **Yi-Hsuan Feng**, "Application Behavior Analysis by Stateful Automata Mechanism" **Journal of Computers**, Vol.18, No.4, January 2008, pp. 3-14.

Referred Conference Papers:

1. **Yi-Hsuan Feng**, Nen-Fu Huang, Meng-Huan Wu, "Flow Digest: A State Synchronization Scheme for Stateful High Availability," **IEEE ICC2007**, Glasgow, Scotland, UK, June 2007. [Acceptance rate: 36%]
2. **Yi-Hsuan Feng**, Nen-Fu Huang, Yen-Min Wu, "TCP State Replication Methods for High-Availability Firewall Clusters," **IEEE GLOBECOM2008**, New Orleans, USA, November 2008. [Acceptance rate: 39%]
3. Nen-Fu Huang, Chih-Hao Chen, Yuan-Fang Huang, **Yi-Hsuan Feng**, Chia-Nan Kao, "A Scalable Architecture for High Available Security Switch," **IEEE ICC2006**, Turkey, June 2006.
4. **Yi-Hsuan Feng**, Nen-Fu Huang, and Chia-Hsiang Chen, "An Efficient Caching Mechanism for Network-based URL Filtering by Multi-level Counting Bloom Filters," submitted to **IEEE ICC2011**.

99年9月通過學術審查

91 學年度入學 (博七)

Journal papers

1. Nen-Fu Huang, **Yih-Jou Tzang**, Hong-Yi Chang, Chia-Wen Ho, “Enhancing P2P Overlay Network Architecture for Live Multimedia Streaming,” accept by *Information Sciences* [SCI, EI] [JCR(2009) Total Cites: 6828; Impact Factor: **3.291**; Ranking: **6/116**; Subject Categories: Computer Science, Information Systems] Vol. 180, Issue 17, pp. 3210-3231, September, 2010.
2. Nen-Fu Huang, **Yih-Jou Tzang**, Hsi-Feng Chen, “Live Multimedia System Using Peer-to-Peer Architecture for Distance Education,” accept by *Lecture Notes in Computer Science* [SCI] [JCR(2005) Total Cites: 38975; Impact Factor: 0.402; Ranking: 62/71; Subject Categories: Computer Science, Theory & Methods] Vol. 4181, pp. 321-335, July, 2006.
3. Nen-Fu Huang, Hong-Yi Chang, **Yih-Jou Tzang**, “A Novel Cloud Video Streaming Platform with SVC Technology Using Public Cloud Servers,” Submitted to *IEEE Communications Letters* [SCI, EI] [JCR(2009) Total Cites: 4293; Impact Factor: 1.140; Ranking: 24/76; Subject Categories: Telecommunications] under revision, August, 2010.

Conference papers

1. Nen-Fu Huang, **Yih-Jou Tzang**, Hong-Yi Chang, Chih-Shun Ma, “Construction of an Efficient Ring-Tree-based Peer-to-Peer Streaming Platform,” *International Conference on Networked Computing and Advanced Information Management*, pp. 75-80, Seoul, Korea, August 2010. [EI] [Acceptance rate: 399/1348 = 29.6%]
2. Nen-Fu Huang, Yen-Ming Chu, **Yih-Jou Tzang**, “A Novel Algorithm and Architecture for High Speed Pattern Matching in Resource-limited Silicon Solution,” *IEEE ICC* (IEEE International Conference on Communications), pp. 1286-1291, Glasgow, Scotland, UK, June 2007. [EI] [Acceptance rate: 1070/2740 = 39.0%]
3. Nen-Fu Huang, Yen-Ming Chu, **Yih-Jou Tzang**, “A Deterministic Cost-effective String Matching Algorithm for Network Intrusion Detection Systems,” *IEEE ICC* (IEEE International Conference on Communications), pp. 1292-1297, Glasgow, Scotland, UK, June 2007. [EI] [Acceptance rate: 1070/2740 = 39.0%]

4. Nen-Fu Huang, Yen-Ming Chu, **Yih-Jou Tzang**, Jian-Lin Chen, “A non-Computation Intensive Pre-filter for String Pattern Matching in Network Intrusion Detection Systems,” *IEEE GLOBECOM* (IEEE Global Telecommunications Conference), NIS06-4, pp. 1-5, San Francisco, USA, November 2006. [EI] [Acceptance rate: 1027/2548 = 40.2%]

99年9月通過學術審查

91 學年度入學 (博七)

Journal papers

1. Tien-Ho Chen, Han-Cheng Hsiang and Wei-Kuan Shih, "Security enhancement on an improvement on two Remote User Authentication Schemes Using Smart Cards", accepted by Journal of Future Generation Computer Systems(FGCS), [SCIEI] [JCR(2009) Impact Factor:2.229; (5-Year IF: 1.752); Ranking: 12/91, COMPUTER SCIENCE, THEORY & METHODS]
2. Tien-Ho Chen, Wei-Kuan Shih, "A Robust Mutual Authentication Protocol for Wireless Sensor Networks" , accepted by Journal of ETRI (ETRI Journal) , 2010, [SCIEI] [JCR(2009) Impact Factor: 0.814 (5-Year IF: 0.846) ; Ranking: 154/274, ENGINEERING, ELECTRICAL & ELECTRONIC, TELECOMMUNICATIONS]

Conference papers

- [C1] Tien-Ho Chen, Han-Cheng Hsiang and Wei-Kuan Shih, " Security improve-ment on a remote user authentication scheme using smart cards", Information Security and Assurance (ISA 2010), Miyazaki, Japan, June, 2010, [EI] [accepted rate: 15%].
- [C2] Tien-Ho Chen, Yen-Chiu Chen and Wei-Kuan Shih, "An Advanced ECC ID-Based remote mutual authentication scheme for mobile devices", IEEE International Symposium on Service, Security and its Data management technologies in Ubi-com (SSDU 2010), Xi-an, China, October, 2010, [EI] [accepted].
- [C3] Han-Cheng Hsiang, Tien-Ho Chen and Wei-Kuan Shih, "Security improve -ment on Two Remote User Authentication Scheme Using Smart Cards", International Conference of Future Generation Communication and Networking (FGCN 2009), Jeju Island, Korea, December, 2009, [EI] [accepted rate: 28%].
- [C4] Tien-Ho Chen, Han-Cheng Hsiang and Wei-Kuan Shih, " Further improve -ment of authentication scheme for multi-server environment", TANET 2009 program book, [accepted].

99年9月通過學術審查

92 學年度碩士入學，93 學年度上學期直升 (博七)

Published Journal papers

1. **Hsiang-Yuan Yeh**, Shih-Wu Cheng, Yu-Chun Lin, Shih-Fang Lin and Von-Wun Soo, “Reconstructing Genetic Regulatory Networks from Microarray Data Based on Transcription Factor Analysis and Conditional Independency”, BMC Medical Genomics, 2009 vol.2 :70. (SCI, impact factor : 2.66, highly accessed paper)
2. **Hsiang-Yuan Yeh**, Shih-Wu Cheng, Paul Hsueh-Min Chang, Wei-Shen Lai, Von-Wun Soo, “Automatic Web Service Selection Using Ontology and QoS”, International Journal of Electronic Business Management , vo.5 No.1 pp.1-10, 2007.

Conference paper (* denotes the same contributions in the paper)

1. **Hsiang-Yuan Yeh**, Yi-Yu Liu, Cheng-Yu Yeh and Von-Wun Soo, “Identifying Prostate Cancer-related Networks from Microarray Data Based on Genotype-Phenotype Networks Using Markov Blanket Search”, IEEE 10th International Symposium on Bioinformatics & Bioengineering, pp.302-303, 2010 (EI)
2. Yu-Chun Lin*, **Hsiang-Yuan Yeh**, Cheng-Yu Yeh and Von-Wun Soo, “A Robust Network Alignment Algorithm for Detecting Evolutionarily Conserved Networks and Protein Complexes Across Species”, The 2008 International Conference on Bioinformatics & Computational Biology, pp.1005-1011, 2008
3. Yu-Chun Lin*, **Hsiang-Yuan Yeh***, Shih-Wu Cheng, Von-Wun Soo, “Comparing Cancer and Normal Gene Regulatory Networks Based on Microarray Data and Transcription Factor Analysis”, IEEE 7th International Symposium on Bioinformatics & Bioengineering, pp. 151-157, 2007 (EI, accepting rate ~13%)
4. Yu-Ting Huang, Shih-Fang Lin, Chung-Cheng Chiu, Hsiang-Yuan Yeh, Von-Wun Soo , “Probability Analysis on Associations of Adverse Drug Events with Drug-Drug Interactions”, IEEE 7th International Symposium on Bioinformatics & Bioengineering, pp.1308-1312, 2007 (EI, accepting rate ~13%)
5. Shih-Wu Cheng*, **Hsiang-Yuan Yeh***, Yu-Chun Lin, Shih-Fang Lin and Von-Wun Soo, “Inferring Gene Regulatory Networks from Microarray Data Based on Transcription Factor Analysis and Conditional Independency”, The

2007 International Conference on Bioinformatics & Computational Biology, pp. 65-71, 2007(accepting rate ~23%)

6. Yu-Ting Huang* ,**Hsiang-Yuan Yeh***, Shih-Wu Cheng, Chien-Chih Tu, Chi-Li Kuo and Von-Wun Soo , “Automatic Extraction of Information about the Molecular Interactions in Biological Pathways from Texts Based on Ontology and Semantic Processing”, Proceedings of International Conference on Systems Man and Cybernetics, pp.3679-3684, 2006.(EI,SCI)
7. Shih-Wu Cheng*, **Hsiang-Yuan Yeh***, Chi-Li Kuo, Paul Hsueh-Min Chang and Von-Wun Soo, “Dealing with Input and Output Parameter Matching Problems in Web Service Composition Based on Quality of Service”, The 36th International Conference on Computers and Industrial Engineering, pp.1004-1015, 2006.
8. Wei-Shen Lai, Paul Hsueh-Min Chang, Hsiang-Yuan Yeh, Von-Wun Soo, “Automatic Web Service Composition Using Ontology and QoS”, The Tenth Conference on Artificial Intelligence and Applications, 2005. (Best paper award)
9. Yu-Ting Huang*, **Hsiang-Yuan Yeh***, Chi-Li Kuo, and Von-Wun Soo, “Preposition Sense Disambiguation for Semantic Information Extraction Based on Maximum Entropy”, The 36th International Conference on Computers and Industrial Engineering, 2006
10. Chien-Chin Tu, Von-Wun Soo, Hsiang-Yuan Yeh, Wei-Chih Lin, “Using Biological Knowledge and Molecular Interactions Ontology Enhance Automated Information Filtering and Knowledge Extraction—A case study on Apoptosis”, The symposium and workshop of Bioinformatics in Taiwan 2005 (BIT2005).
11. Von-Wun Soo, **Hsiang-Yuen Yeh**, Shih-Neng Lin, Wen-Ching Chen, “Ontology-based Knowledge Extraction from Semantic Annotated Biological Literature”, The Ninth Conference on Artificial Intelligence and Applications, 2004.

99年9月通過學術審查

93 學年度入學 (博七)

Journal Papers

1. **Chia-Han Chu**, Wei-Cheng Lo, Hsin-Wei Wang, Yen-Chu Hsu, Jenn-Kang Hwang, Ping-Chiang Lyu, Tun-Wen Pai and Chuan Yi Tang, “Detection and Alignment of 3D Domain Swapping Proteins Using Angle-distance Image-based Secondary Structural Matching Techniques,” *PLoS ONE*, 2010. (**Paper accepted**)
 - Impact factor: **4.351** (2009), rank:**9/73** (<**13%**), subject category: Biology.
 - Academic index: **SCI**.
2. **Chia-Han Chu**, Chuan Yi Tang, Cheng-Yin Tang and Tun-Wen Pai, “Angle-distance image matching techniques for protein structure comparison,” *Journal of Molecular Recognition*, Vol. 21, Issue 6, pp. 442-452, 2008.
 - Impact factor:**3.767** (2007), rank:**13/69** (<**19%**), subject category: Biophysics.
 - Academic index: **SCI**
 - **Cited by 2**
3. Hsin-Wei Wang, Tun-Wen Pai and **Chia-Han Chu**, “Exponential Smoothing Forecasting Models for Fishery Statistics,” *Far East Journal of Experimental and Theoretical Artificial Intelligence*, Vol. 3, Issue 2, PP. 125-141, 2009.

Conference Papers

1. **Jia-Han Chu**, Chun Yuan Lin, Cheng-Wen Chang, Chihan Lee, Yuh-Shyong Yang and Chuan Yi Tang, “TIM Barrel Protein Structure Classification Using Alignment Approach and Best Hit Strategy,” *Proceedings of 2007 International Symposium on (CMLS), AIP Conference Proceedings*, vol. 952, December 2007, pp.177-186. (**EI in 2006**)
2. Chun Yuan Lin, Ming-Yuan Huang, **Chia-Han Chu**, Petrus Tang, and Chuan Yi Tang, “Mapping short reads to a genome without using hash look-up table algorithm and Burrows Wheeler Transformation,” accepted by IEEE International Conference on Bioinformatics and Biomedicine Workshop on Data Mining in Functional Genomics, 2009. (**EI**) (**Acceptance rate < 35%**)

99年9月通過學術審查

93 學年度入學 (博七)

Journal papers

1. Nen-Fu Huang, **Hong-Yi Chang**, Yuan-Wei Lin, Kuo-Shiang Hsu, Han-Chi Liu, “On the Complexity of Bandwidth Management Problem for Scalable Coding Video Streaming on Public-Shared Network,” accepted by *IEEE Communications Letters* [SCI] [JCR(2009) Total Cites: 4293; Impact Factor: **1.140**; Ranking: **24/76**; Subject Categories: **Telecommunications**] Vol. 13, No.1, pp. 61-63, 2009.
2. Nen-Fu Huang, Yih-Jou Tzang, **Hong-Yi Chang**, Chia-Wen Ho, “Enhancing P2P Overlay Network Architecture for Live Multimedia Streaming,” accepted by *Information Sciences* [SCI, EI] [JCR(2009) Total Cites: 6828; Impact Factor: **3.291**; Ranking: **6/116**; Subject Categories: **Computer Science, Information Systems**] Vol. 180, Issue 17, pp. 3210-3231, 2010.

Conference papers

1. Nen-Fu Huang, **Hong-Yi Chang**, Yuan-Wei Lin, and Kuo-Shiang Hsu, “A Novel Bandwidth Management Scheme for Video Streaming Service on Public-Shared Network,” *IEEE ICC* (IEEE International Conference on Communications), pp. 1755-1759, Beijing, China, May 2008.
[EI] [Acceptance rate: $1129/3,135 = 36\%$]
2. Nen-Fu Huang, **Hong-Yi Chang**, Tsu-Chien Wang, Yeh-Sheng Lin, and Yuan-Wei Lin, “An Efficient and Locality-aware Resource Management Scheme for SVC-Based Video Streaming System on Public-Shared Network,” *The 15th Asia-Pacific Conference on Communications*, pp. 682-685, Shanghai, China, October 2009.
[EI][Acceptance rate: $215/693 = 31\%$]
3. Nen-Fu Huang, Yih-Jou Tzang, **Hong-Yi Chang**, Chih-Shun Ma, “Construction of an Efficient Ring-Tree-based Peer-to-Peer Streaming Platform,” *International Conference on Networked Computing and Advanced Information Management*, pp. 75-80, Seoul, Korea, August 2010. [EI] [Acceptance rate: $399/1348 = 29.6\%$]

99年9月通過學術審查

94 學年度入學 (博六)

Journal Papers

1. **S. L. Chen**, TingTing Hwang, and W. W. Lin, “Randomness Enhancement Using Digitalized Modified-Logistic Map,” *IEEE Transactions on Circuits and Systems Part II: Express Briefs*, accepted, 2010.
2. **S. L. Chen**, S. M. Chang, TingTing Hwang, and W. W. Lin, “A Fast Non-Linear Digital Chaotic Generator in Secure Communication,” *International Journal of Bifurcation and Chaos*, to appear, 2010.
3. W. W. Hsieh, **S. L. Chen**, I. S. Lin and TingTing Hwang, “A Physical-Location-Aware X-Filling Method for IR-Drop Reduction in At-Speed Scan Test,” *IEEE Transactions on CAD of Integrated Circuits and Systems*, vol. 29, no. 2, pp. 289–298, 2010.
4. **S. L. Chen**, S. M. Chang, TingTing Hwang, and W. W. Lin, “Digital Secure Communication Using Robust Hyper-Chaotic Systems,” *International Journal of Bifurcation and Chaos*, vol. 18, no. 11, pp. 3325–3339, 2008.

Other Papers

1. **S. L. Chen**, B. R. Ke, J. N. Chen, and C. T. Huang, “Reliability Analysis and Improvement for Multiple-Level Non-Volatile Memories with Soft-Information,” submitted, 2010.
2. F. W. Chen, **S. L. Chen**, Y. S. Lin, TingTing Hwang, “A Physical-Location-Aware Fault Redistribution for Maximum IR-Drop Reduction,” in *Proceedings of the Asia and South Pacific Design Automation Conference*, accepted, 2011.
3. **S. L. Chen**, TingTing Hwang, and W. W. Lin, “Randomness Enhancement for a Digitalized Modified-Logistic Map Based Pseudo Random Number Generator,” in *Proceedings of the International Symposium on VLSI Design, Automation and Test*, pp. 164–167, Taiwan, 2010.
4. **S. L. Chen**, TingTing Hwang, and C. L. Liu, “A Technology Mapping Algorithm for CPLD Architectures,” in *Proc. of IEEE International Conference on Field Programmable Technology*, Hong Kong, pp. 204–210, 2002.