101 年 4 月 通過 學術審查

91 學年度碩士入，92 學年度直升 (博七)

Journal:

1. ***Chun-Tien Chang,*** Chi-Neu Tsai, Chuan Yi Tang, Chun-Houh Chen, Jang-Hau Lian, Chi-Yu Hu, Chia-Lung Tsai, Angel Chao, Chyong-Huey Lai, Tzu-Hao Wang, Yun-Shien Lee. " Mixed Sequence Reader (MSR) program for analyzing DNA sequences with heterozygous base calling chromatography to detect genomic variations" accepted by TheScientificWorldJOURNAL (2012-04-01) Article ID 365104.(2010 impact factor 1.524, 13/59(<23%) Subject categories: MULTIDISCIPLINARY SCIENCES)

2. Margaret Dah-Tsyr Chang, Hao-Teng, Tun-Wen Pai, Tan-chi Fan, Bo-Han Su, Pei-Chih Wu, Chuan-Yi Tang, ***Chun-Tien Chang***, Shi-Hwei Liu, and Margaret Chang. "A Reinforced Merging Methodology for Mapping Unique Peptide Motifs in Members of Protein Families." BMC Bioinformatics 7, no. 1 (2006): 38. (2006 impact factor: 3.617, 4/26(<17%), Subject categories: MATHEMATICAL & COMPUTATIONAL BIOLOGY)

Conference:

1. Margaret Dah-Tsyr Chang, Hao-Teng Chang, Rong-Yuan Huang, Wen-Shyong Tzou, Chih-Hong Liu, Wei-Jun Zhung, Hsien-Wei Wang, ***Chun-Tien Chang,*** and Tun-Wen Pai. "A Database for Prediction of Unique Peptide Motifs as Linear Epitopes Bioinformatics Research and Applications." edited by Ion Mandoiu and Alexander Zelikovsky, 4463, 430-440: Springer Berlin / Heidelberg, 2007. International Symposium on Bioinformatics Research and Applications, ISBRA'07 (Atlanta, Georgia)

Poster:

1. ***Chun-Tien Chang***, Yen.-Jen. Lin, Chuan Yi Tang, and Wen-Ping Hsieh (2009) Comparison of genotype imputation methods for SNP array data. The 59th annual meeting of the American Society of Human Genetics. Oct. 20-24, Honolulu, USA

101 年 4 月 通過 學術審查

92 學年度入學 (博七)

Journal Papers：

1. Hung-Min Sun, **Chiung-Hsun Chen**, Chih-Wen Yeh, Yao-Hsin Chen, "A Collaborative Routing Protocol against Routing Disruptions in MANETs", Personal and Ubiquitous Computing (PUC) 2012/2013

2. Hung-Min Sun, **Chiung-Hsun Chen**, and Yu-Fang Ku, "A novel acknowledgment-based approach against collude attacks in MANET", Expert Systems with Applications, Volume 39, Issue 9, July 2012, Pages 7968–7975

3. Hung-Min Sun; **Chiung-Hsun Chen**; Po-Chi Li; "A Lightweight Secure Data Aggregation Protocol for Wireless Sensor Networks" International Journal of Innovative Computing, information and control (IJICIC), Volume. 8, No. 8, August 2012

Conference Papers：

1. Hung-Min Sun, **Chiung-Hsun Chen**, Chih-Wen Yeh, Yao-Hsin Chen, "A Collaborative Routing Protocol against Routing Disruptions in MANETs", International Symposium on Advances in Cryptography, Security and Applications for Future Computing (ACSA-11), 2011

2. Hung-Min Sun, **Chiung-Hsun Chen**, Ling-Chun Hsu, Yen-Hsueh Chen, "Yao-Hsin Chen, "Reliable Data Transmission against Packet Dropping Misbehavior in Wireless Ad Hoc Networks",IET International Communication Conference on Wireless Mobile & Computing (CCWMC2011), 2011

3. Hung-Min Sun, **Chiung-Hsun Chen**, Po-Chi Li, "A Lightweight Secure Data Aggregation Protocol for Wireless Sensor Networks" 2011 40th International Conference on Parallel Processing Workshops (ICPPW 2011), 2011

4. Hung-Min Sun, **Chiung-Hsun Chen**, Ci-Lun Chen, and Yao-Hsin Chen,"A Robust Defense Scheme to Resist Routing Attacks in Mobile Ad Hoc Networks", Applied Computing,Computer Science, and Computer Engineering Advances in Communication Technology, Vol.1-4 (ACC2011), 2011

5. Hung-Min Sun, Chen-Jung Hong, **Chiung-Hsun Chen**, "A new approach to feature-based copyright protection of images", International Conference on Information Technology: Research and Education, 2005. (ITRE 2005)

93 學年度入學 (博七)

Journal Papers:

1. **Tsung-Yen Chen**, Yu-Chi Huang, Ting-Shuo Chou, Chi-Sheng Shih and Jane W. S. Liu, "Model-Based Development of User-Centric Automation and Assistive Devices/Systems", To Appear in IEEE Systems Journal. (SCI, EI, 5-Year IF=0.847)

2. Pei-Hsuan Tsai, **Tsung-Yen Chen**, Chih-Jen Yu, Chi-Sheng Shih and Jane W. S. Liu, "Smart Medication Dispenser: Design, Architecture and Implementation", IEEE Systems Journal, Vol. 5, Iss. 1, pp.99-110, March 2011. (SCI, EI, 5-Year IF=0.847)

3. Jerry C. Y. Chou, Tai-Yi Huang, Kuang-Li Huang and **Tsung-Yen Chen**, "SCALLOP: A Scalable and Load-Balanced Peer-to-Peer Lookup Protocol", IEEE Transaction on Parallel and Distributed Systems Vol. 17, Iss. 5, pp.419-433, May 2005. (SCI, EI, 2005 IF=1.462)

4. **Tsung-Yen Chen**, Pei-Hsuan Tsai, Chiu-Hung Chen, Cheng-Wei Yu, Chi-Sheng Shih and Jane W. S. Liu, "A Model and Simulation Environment for Symbiotic Automation and Assistive Devices", Submitted to ACM Transactions on Computer-Human Interaction. (under major revision)(SCI, EI, 2010 IF=1.857)

Conference Papers:

1. **Tsung-Yen Chen**, Pei-Hsuan Tsai, Ting-Shuo Chou, Chi-Sheng Shih, Tei-Wei Kuo, Jane W. S. Liu and Anitha Thamizhmani, "Component Model and Architecture of Smart Devices for Elderly", in the proceedings of 6th Working IEEE/IFIP Conference on Software Architecture (WICSA 2008). (Acceptance rate is 26%)

2. **Tsung-Yen Chen**, Chiu-Hung Chen, Chi-Sheng Shih, Jane W. S. Liu, "A Simulation Environment for Development and Evaluation of Smart Devices for the Elderly", in the Proceedings of the 2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008), October 12 - 15, 2008.

3. Tai-Yi Huang, **Tsung-Yen Chen**, Po-Yu Chuang and Tsung-Hao Li, "Constructing a Memory-Based Distributed Code Storage on Networked Diskless Embedded Systems", in the Proceedings of the 2005 IEEE

International Conference on Parallel and Distributed Systems (ICPADS 2005). (Acceptance rate is 29%)

Technical Reports:

1. **T. Y. Chen**, P. H. Tsai, C. H. Chen, C. W. Yu, C.S. Shih and J. W. S. Liu, "A Model and Simulation Environment for Symbiotic Automation and Assistive Devices" number TR-IIS-10-008, Institute of Information Science, Academia Sinica, 2010.
2. J. W. S. Liu, C. S. Shih, T. S. Chou, Y. C. Wang, H. Y. Huang, W. S. Chen, K. C. Chuang, W. C. Wang and **T. Y. Chen**, "EMWF: A Middleware for Flexible Automation and Assistive Devices," number TR-IIS-09-009, Institute of Information Science, Academia Sinica, 2009.

Patents:

1. 無線感測器使用開機載入程式的更新裝置及方法
   Upgrading Device and Method Using Bootloader in Wireless Sensor Networks
   發明人：黃泰一，**陳宗言**，侯凱元，李中榮
   證書號 I315850 (2009/10/11)
2. 地區性物品配送管制系統
   Local Dispensing Control System
   發明人：**陳宗言**，張韻詩，林宏哲，莊晏婷。
   (申請案號 10010843。台灣專利申請，亦同時申請美國專利)

Contest Award:

2005 教育部大學校院嵌入式軟體製作競賽 系統軟體組 優等(第二名) (with 侯凱元 莊博宇)

101 年 4 月 通過 學術審查

93 學年度入學 (博七)

Journal Papers:

1. Support of Probabilistic Pointer Analysis in the SSA Form, **Ming-Yu Hung**, Peng-Sheng Chen,Yuan-Shin Hwang, Roy Dz-Ching Ju, and Jenq Kuen Lee, *IEEE Transactions on Parallel and Distributed Systems.* Accepted. (2010 impact factor=1.575) [SCI, EI]

2. OpenCL Compiler for Embedded Multi-Core DSP Systems, Jia-Jhe Li, Chi-Bang Kuan,Tung-Yu Wu, **Ming-Yu Hung**, and Jenq Kuen Lee, *The 24th International Workshop on Languages and Compilers for Parallel Computing,* Sept. 2011 (Poster).

3. OpenCL Update, Yu-Te Lin, Shao-Chung Wang, **Ming-Yu Hung**, Jia-Jhe Li, Jenq-Kuen Lee,*The 2011 Open64 Developers Forum*, HP Campus Cupertino, CA, USA, June 2011.

4. Software Cache Support and API Design for Embedded DSP Processor, Cheng-Yen Lin,Shao-Chung Wang, **Ming-Yu Hung**, Kun-Yuan Hsieh, Jenq-Kuen Lee, *International SoCDesign Conference*, Busan, Korea, Nov. 22-24, 2009.

5. Compiler Supports and Optimizations for PAC VLIW DSP Processors , Yung-Chia Lin,Chung-Lin Tang, Chung-Ju Wu, **Ming-Yu Hung**, Yi-Ping You, Ya-Chiao Moo, Sheng-YuanChen, and Jenq Kuen Lee, *The 18th International Workshop on Languages and Compilers forParallel Computing*, IBM Hawthorne, Hawthorne, New York, Oct. 2005 (Also in *LNCS,Volume 4339/2006, 466-474*, 2006). (cited by 19 from google scholar) [EI]

6. Compiler Support for Speculative Multithreading Architecture with Probabilistic Points-toAnalysis, Peng-Sheng Chen, **Ming-Yu Hung**, Yuan-Shin Hwang, Roy Dz-Ching Ju, Jenq KuenLee, *In Proceedings of the 2003 ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming,* San Diego, June 2003 (Also in *ACM SIGPLAN NOTICES, Vol 38, Issue10*, Oct. 2003(*ACM PPoPP '03*)). (2003 impact factor=0.246, cited by 49 from google scholar)[SCI, EI]

Patents

1. A probabilistic pointer analysis method using static single assignment form, Jenq Kuen Lee andMing-Yu Hung, USA. (Pending patent)
2. 指標機率分析方法, 李政崑, 洪明郁, 中華民國. (申請中)

94 學年度入學 (博七)

Journal Papers:

1. **<u>Ying-Chieh Chen</u>**, Su-Ian Eugene Lei, and Chun-Fa Chang. "Spatio-temporal Filtering of Indirect Lighting for Interactive Global Illumination". Computer Graphics Forum, Vol.31, Issue 1, Pages 189-201, February 2012(SCI, 2010, IF=1.476, 5-Year IF= 1.73).

2. **<u>Ying-Chieh Chen</u>** and Chun-Fa Chang. "A Prism-Free Method for Silhouette Rendering in Inverse Displacement Mapping". Computer Graphics Forum, Vol.27, No.7, Pages 1929-1936, October 2008 (SCI, 2008 IF= 1.86, 5-Year IF= 2.06)

3. **<u>Ying-Chieh Chen</u>**, Sin-Jhen Chiu, Hsiang-Ting Chen, and Chun-Fa Chang. "Physically-Based Analysis and Rendering of Bidirectional Texture Functions Data". Journal of Information Science and Engineering, Vol.24, No.1, January 2008 (SCI, IF = 0.2)

International Conference Full Papers:

C1. Min Shih, Yung-Feng Chiu, **<u>Ying-Chieh Chen</u>**, and Chun-Fa Chang. "Real-Time Ray Tracing with CUDA". International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP) 2009. (EI)

C2. Chun-Fa Chang, Bo-Quan Lin, **<u>Ying-Chieh Chen</u>**, and Yung-Feng Chiu. "Real-Time Soft Shadow for Displacement Mapped Surfaces". IEEE International Conference on Multimedia & Expo (ICME) 2009. (EI)

C3. **<u>Ying-Chieh Chen</u>**, Chun-Fa Chang, Zong-Nan Shen, Yong-Min Chen and Hong-Long Chou. "Image-Based Model Acquisition and Interactive Rendering for Building 3D Digital Archives". In Proceedings of 2005 International Conference on Digital Archives Technologies (ICDAT 2005).

International Conference Poster:

P1. **<u>Ying-Chieh Chen</u>**, Wan-Chun Ma and Chun-Fa Chang . "Asynchronous Rendering". ACM Symposium on Interactive 3D Graphics and Games (I3D) 2010 Poster

P2. Yu-Jen Chen, Zong-Nan Shen, **<u>Ying-Chieh Chen</u>**, Chun-Fa Chang, Yung-Yu Chuang, Jieh Hsiang. "Extensions to Inverse Displacement Mapping: Towards More Accurate Silhouette and Dynamic Displacement". ACM Symposium on Interactive 3D Graphics and Games (I3D) 2008 Poster

101 年 4 月 通過 學術審查

94 學年度入學 (博七)

Journal Papers:

1. **Nonlinear Revision Control for Images**
   Hsiang-Ting Chen, Li-Yi Wei, Chun-Fa Chang
   ACM Transactions on Graphics (Proceedings of SIGGRAPH), Volume 30, Issue 4, July 2011
2. Physically-Based Analysis and Rendering of Bidirectional Texture Functions Data
   Ying-Chieh Chen, Sin-Jhen Chiu, Hsiang-Ting Chen and Chun-Fa Chang
   Journal of Information Science and Engineering, Vol.24, No.1, January 2008

Conference Papers:

1. **Data-driven History List for Image Editing**
   Hsiang-Ting Chen, Li-Yi Wei, Bjoern Hartmann, Maneesh Agrawala
   Submitted to ACM Symposium on User Interface Software and Technology (UIST) 2012
2. **Rendering of Trees using Flow-Guided Texture Synthesis**
   Hsiang-Ting Chen and Chun-Fa Chang
   Computer Graphics Workshop 2006
3. **AR for the Masses: Building a Low-Cost Portable Augmented Reality System from Off-the-Shelf Components**
   Hsiang-Ting Chen and Chun-Fa Chang
   In Proceedings of ACM International Conference on Virtual-Reality Continuum and its   Applications in Industry (VRCAI) 2004

94 學年度入學 (博七)

Journal Papers

1. **<u>Po-Chi Shih</u>**, Kuo-Chan Huang, Che-Rung Lee, I-Hsin Chung and Yeh-Ching Chung, "TLA: Temporal Look-Ahead Processor Allocation Technique for Heterogeneous Multi-Cluster Systems," *submitted to IEEE Transaction on Parallel and Distributed System and under revision*. **[SCI, EI, Impact Factor: 1.575 (2010)]**

2. **<u>Po-Chi Shih</u>**, Kuo-Chan Huang, and Yeh-Ching Chung, "Improving grid performance through processor allocation considering both speed heterogeneity and resource fragmentation," *The Journal of Supercomputing*, Online First, 11 August, 2010. **[SCI, EI, Impact Factor: 0.545 (2010)]**

3. Yu-Wei Chan, Tsung-Hsuan Ho, **<u>Po-Chi Shih</u>**, and Yeh-Ching Chung, "Malugo: A Peer-to-Peer Storage System," *International Journal of Ad Hoc and Ubiquitous Computing*, Vol. 5, No. 4, pp. 209-218, April 2010. **[SCI, EI, Impact Factor: 0.865 (2009), Google Scholar Citation: 3]**

4. Kuo-Chan Huang, **<u>Po-Chi Shih</u>**, and Yeh-Ching Chung, "Adaptive Processor Allocation for Moldable Jobs in Computational Grid," *International Journal of Grid and High Performance Computing*, Vol. 1, Issue 1, pp. 10-21, 2009. **[EI, Google Scholar Citation: 4]**

5. Chao-Tung Yang, Kuan-Chou Lai, and **<u>Po-Chi Shih</u>**, "Design and Implementation of a Workflow-based Resource Broker with Information System on Computational Grids," *The Journal of Supercomputing*, vol. 47, no. 1, pp. 76-109, January 2009. **[SCI, EI, Impact Factor: 0.687 (2009), Google Scholar Citation: 5]**

6. Chao-Tung Yang, **<u>Po-Chi Shih</u>**, Cheng-Fang Lin, and Sung-Yi Chen, "A Resource Broker with an Efficient Network Information Model on Grid Environments," *The Journal of Supercomputing*, Vol. 40, No. 3, pp. 249-267, June 2007. **[SCI, EI, Impact Factor: 0.246 (2007), Google Scholar Citation: 13]**

Book Chapters

1. Kuo-Chan Huang, **<u>Po-Chi Shih</u>**, and Yeh-Ching Chung, "Effective Resource Allocation and Job Scheduling Mechanisms for Load Sharing in a Computational Grid," *Handbook of Research on Grid Technologies and Utility Computing: Concepts for Managing Large-Scale Applications*, Edited by Emmanuel Udoh and

Frank Zhigang Wang, pp. 31-40, IGI Publishing, May 31, 2009 (ISBN: 978-1605661841).

2. Kuo-Chan Huang, **Po-Chi Shih**, and Yeh-Ching Chung, "QoS-based Job Scheduling and Resource Management Strategies for Grid Computing," *Quantitative Quality of Service for Grid Computing: Applications for Heterogeneity, Large-Scale Distribution, and Dynamic Environments*, Edited by Lizhe Wang, Jinjun Chen, and Wei Jie, pp. 110-127, IGI Publishing, May 5, 2009 (ISBN: 978-1605663708).

Conference Papers

1. **Po-Chi Shih**, Kuo-Chan Huang, Che-Rung Lee, I-Hsin Chung, and Yeh-Ching Chung, "TLPA: A Processor Allocation Technique for Heterogeneous Multi-Cluster Environments," *Proceedings of IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid)*, Newport Beach USA, pp. 614-615, may 2011. **[EI, Acceptance rate: 29%, Google Scholar Citation: 1]**

2. Yeh-Ching Chung, **Po-Chi Shih**, Kuan-Ching Li, Chao-Tung Yang, Ching-Hsien Hsu, Fang-Rong Hsu, Don-Lin Yang, Chia-Hsien Wen, Chuang-Chien Chiu, "Medicare-Grid: new trends on the development of E-Health System based on Grid Technology," *IFIP Advances in Information and Communication Technology, World Computer Congress (WCC)*, vol. 335, pp. 148-159, Brisbane, Australia, September 2010. **[Google Scholar Citation: 1]**

3. **Po-Chi Shih**, Kuo-Chan Huang, and Yeh-Ching Chung, "Improving Processor Allocation in Heterogeneous Computing Grid through Considering Both Speed Heterogeneity and Resource Fragmentation," *Proceedings of International Symposium on Pervasive Systems, Algorithms, and Networks (I-SPAN)*, pp. 539-544, Kaohsiung, Taiwan, December 2009. **[EI, Google Scholar Citation: 1]**

4. Kuo-Chan Huang, **Po-Chi Shih**, and Yeh-Ching Chung, "Using Moldability to Improve Scheduling Performance of Parallel Jobs on Computational Grid," *Proceedings of International Conference on Grid and Pervasive Computing (GPC)*, pp. 116-127, Kunming, China, May 25-28, 2008. **[Acceptance rate: 24%, Google Scholar Citation: 1]**

5. **Po-Chi Shih**, Hsi-Min Chen, Yeh-Ching Chung, Chien-Min Wang, Ruay-Shiung Chang, Ching-Hsien Hsu, Kuo-Chan Huang, and Chao-Tung Yang, "Middleware of Taiwan UniGrid," *Proceedings of Annual ACM Symposium on Applied Computing (SAC)*, pp. 489-493, Ceara, Brazil, March 16-20, 2008. **[Acceptance rate: 29%, Google Scholar Citation: 5]**

6. Kuo-Chan Huang, **Po-Chi Shih**, and Yeh-Ching Chung, "Towards Feasible and Effective Load Sharing in a Heterogeneous Computational Grid," *Proceedings of International Conference on Grid and Pervasive Computing (GPC)*, vol. 4459, pp. 229-240, Paris, France, May 2-4, 2007.
   - Google Scholar Citation: **6**
   - Acceptance rate: **32%**