Chieh-Feng Chiang, Ph.D.

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EDUCATION

National Chiao Tung University, Taiwan, 2005/9–2011/6

Ph. D., Department of Computer Science

Dissertation: Determining Diagnosability of Multiprocessor Systems with a Local Approach under the Comparison Model

National Chiao Tung University, Taiwan, 2003/9–2005/6

Teacher training program for junior and senior high school, Center for Teacher Education

Field: Mathematics, Computer science

National Chiao Tung University, Taiwan, 2002/9–2004/6

M. S., Department of Computer and Information Science

Thesis: Knowledge-Based Synthesis for Specific Chinese Calligraphic Style

National Chiao Tung University, Taiwan, 1998/9–2002/6

B. S., Department of Computer and Information Science

EXPERIENCES

Institute for Information Industry, Taiwan, 2013/10-present

Senior Engineer, Digital Education Institute

Research on the field of MOOCs trend, serve as the PM/researcher of the III innovative project for the topics of learning behavior analytics and smart job matching

National Tsing-Hua University, Taiwan, 2012/7-2013/6

Postdoctoral Researcher, Multimedia and Knowledge Engineering Laboratory

Research on the field of data mining, serve as the co-PI conducting the industry-university collaboration projects, “Mining User Behaviors for Better Service Provision to HTC Customers”, sponsored by HTC Corporation beginning from Jan. 2013

R.O.C. Army, Taiwan, 2011/8-2012/7

Second Lieutenant, Matsu defense center

IBM Almaden Research Center, San Jose, California, 2010/11-2011/6

Visiting Scholar, Department of Computer Science

Working on SystemT project, a declarative information extraction system providing scalable knowledge mining from unstructured text data

National Taipei College of Business, Taiwan, 2009/9-2010/1

Lecturer, Department of Accounting Information

Course: Business Software Packages

National Chiao Tung University, Taiwan, 2005/9-2011/6

Research Assistant, Computer Theory Laboratory

Conducting research on system-level self diagnosability of very-large-scale integration and multiprocessor systems, developing system-level local diagnosis algorithms

National Chiao Tung University, Taiwan, 2007/3-2010/1

Teaching Assistant, Department of Computer Science

Giving weekly recitation courses "Algorithms" and "Linear Algebra", holding weekly office hours (won the 2006 NCTU Outstanding Teaching Assistant Award)

National High-Speed Computer Center, Hsinchu, Taiwan, 2002/9-2003/6

Research Assistant, Visualization and Interactive Media Laboratory

Software maintaining and tuning, medical images (MRI) processing, medical video recording, and documentation

HONORS AND AWARDS

- ☑ **Graduate Students Study Abroad Program**, National Science Council, Taiwan, 2009. Prize: NT. 450,000 for 9 months. (國科會補助博士生赴國外研究獎學金, 2009)
- ☑ **Award of Excellent Researcher**, Dept. of Computer Science, National Chiao Tung University, 2008. Prize: NT. 100,000. (傑出研究生獎，九十七學年度，國立交通大學資訊工程系)
- ☑ **Award of Outstanding Teaching Assistant**, National Chiao Tung University, 2008. (傑出教學助理獎，九十七學年度，國立交通大學)
- ☑ **Honorable Mention of Paper Award**, Computer Society of the Republic of China, Taiwan, 2006. (九十五學年度電腦學會論文獎佳作)
- ☑ **Best Student Paper Award**, International Computer Symposium 2006, Taipei, Taiwan. (最佳學生論文獎, ICS 2006)

RESEARCH INTERESTS

Education & Data Mining: MOOCs trend, learning behaviors analytics, big-data processing

Computer Theory: Analysis algorithms, system diagnosis, interconnection networks, fault-tolerant computing, network reliability, and graph theory

PUBLICATIONS

Journal Papers

1. Chieh-Feng Chiang, Guo-Huang Hsu, Lun-Min Shih, Jimmy J. M. Tan: Diagnosability of star graphs with missing edges. Information Science 188: 253-259 (2012).
2. Tsung-Han Tsai, Lun-Min Shih, Chieh-Feng Chiang, Lih-Hsing Hsu, Jimmy J. M. Tan: Local-Connectivity and Maximal Local-Connectivity on the class of Matching Composition Networks, International Journal of Innovation, Management and Technology 3(3): 194-197, (2012).
3. Guo-Huang Hsu, Chieh-Feng Chiang, Jimmy J. M. Tan: Comparison-Based Conditional Diagnosability on the Class of Hypercube-like Networks. Journal of Interconnection Networks 11(3-4): 143-156 (2010).
4. Chieh-Feng Chiang, Jimmy J. M. Tan: Using Node Diagnosability to Determine t-Diagnosability under the Comparison Diagnosis Model. **IEEE Transactions on Computers** 58(2): 251-259

(2009).

5. Guo-Huang Hsu, Chieh-Feng Chiang, Lun-Min Shih, Lih-Hsing Hsu, Jimmy J. M. Tan: Conditional diagnosability of hypercubes under the comparison diagnosis model. Journal of Systems Architecture - Embedded Systems Design 55(2): 140-146 (2009).
6. Lun-Min Shih, Chieh-Feng Chiang, Lih-Hsing Hsu, Jimmy J. M. Tan: Fault-Tolerant Maximal Local-Connectivity on Cayley Graphs Generated by Transposition Trees. Journal of Interconnection Networks 10(3): 253-260 (2009).
7. Chieh-Feng Chiang, Jimmy J. M. Tan: A Novel Approach to Comparison-Based Diagnosis. Journal of Information Science Engineering 24(1): 1-9 (2008).
8. Lun-Min Shih, Chieh-Feng Chiang, Lih-Hsing Hsu, Jimmy J. M. Tan: Strong Menger connectivity with conditional faults on the class of hypercube-like networks. Information Processing Letters 106(2): 64-69 (2008).

Conference Papers

1. Yi-Wen Lin, En Tzu Wang, Chieh-Feng Chiang, Arbee L. P. Chen: Finding targets with the nearest favor neighbor and farthest disfavor neighbor by a skyline query. SAC 2014: 821-826.
2. Kun-Han Juang, En Tzu Wang, Chieh-Feng Chiang, Arbee L. P. Chen: Verification of k-coverage on query line segments. IDEAS 2013: 114-121.
3. Chieh-Feng Chiang and Jimmy J. M. Tan, Strong Menger Connectivity on the Bubble-sort Graphs. International Computer Symposium (ICS) 2008: vol. 1, pp. 574-577.
4. Chieh-Feng Chiang, Jimmy J. M. Tan: Comparison-Based Diagnosis on Incomplete Star Graphs. PDPTA 2008: 173-177.
5. Chieh-Feng Chiang and Jimmy J. M. Tan, A Novel Approach to Comparison-Based Diagnosis for Hypercube-Like Multiprocessor Systems. International Computer Symposium (ICS) 2006: vol. 1, pp. 165-169.

REFERENCES

Dr. Li-Chieh Lin 林立傑博士 (Deputy Director General)
Digital Education Institute, Institute for Information Industry
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