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Education

- PhD, Department of Computer Science and Information Engineering, National Cheng Kung University, 2007/7
- Master, Department of Industrial Management, National Cheng Kung University, 1986/7

Area of Specialty

Parallel Computing, Multimedia System Design, Database Management System

Academic Experience

- Associate Professor, Department of Management and Information Technology, Southern Taiwan University, 2009/1 to present
- Instructor, Department of Management and Information Technology, Southern Taiwan University, 2002/8 to 2008/12
- Instructor, Department of Industrial Management, Southern Taiwan University, 1989/8 to 2002/7
- Instructor, Department of Mechanical Engineering, Nan-Jeon Junior College, 1986/8 to 1989/7

Publications

Journal Papers:

1. **Jia-Hwa Wu**, and Chih-Ping Chu, "An Exact Data Dependence Testing Method for Quadratic Expressions," *Information Sciences*, 177, pp. 5316 – 5328, 2007. (SCI)
2. Yeim-Kuan Chang, **Jia-Hwa Wu**, C.-Y. Chen, and C.-P. Chu, "Improved Methods for Divisible Load Distribution on k-Dimensional Mesh Using Multi-Installment," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18 No. 11, pp. 1618– 1629, November   2007. (SCI)
3. **Jia-Hwa Wu**, and Chih-Ping Chu, "A Multi-dimensional Interval Reduction Test," *International Journal of High Performance Computing and Networking*, 2006. (EI)
4. Weng-Long Chang, Chih-Ping Chu, and **Jia-Hwa Wu**, "A polynomial-time dependence

test for determining integer-valued solutions in multi-dimensional arrays under variable bounds," *Journal of Supercomputing*, 31 (2), pp. 111-135, 2005. (SCI)

5. Weng-Long Chang Chih-Ping Chu and **Jia-Hwa Wu**, "A Precise Dependence Analysis for Multi-dimensional Arrays Under Specific Dependence Direction," *Journal of System and Software*, Vol. 63 99-112, 2002. (SCI)

6. Weng-Long Chang, Chih-Ping Chu, and **Jia-Hwa Wu**, "A Simple and General Approach to Parallelize Loops with Arbitrary Control Flow and Uniform Data Dependence Distances," *Journal of System and Software*, Vol. 63 91-98, 2002. (SCI)

7. Weng-Long Chang, Chih-Ping Chu and **Jia-Hwa Wu**, "Communication-free Alignment for Array References with Linear Subscripts in Three Loop Index Variables or Quadratic Subscripts," *Journal of Supercomputing*, 20(2001) 67-83. (SCI)

8. Weng-Long Chang, Chih-Ping Chu and **Jia-Hwa Wu**, "A Multi-dimensional I Test," *Parallel Computing*, 27(2001) 1783-1799. (SCI)

Conference Papers:

1. **Jia-Hwa Wu**, Weng-Long Chang and Chih-Ping Chu, "A Multi-dimensional Interval Reduction Test," PDCAT July 9-11 2001, Taipei, Taiwan. pp337-342.

2. Weng-Long Chang, Chih-Ping Chu and **Jia-Hwa Wu**, "A Multi-dimensional Extended I Test," PDCAT July 9-11 2001, Taipei, Taiwan. pp228-235.

3. Weng-Long Chang, Chih-Ping Chu and **Jia-Hwa Wu**, "A Multi-dimensional Generalized Direction Vector I Test," PDPTA June 25-28 2001, Las Vegas, USA. pp535-541.

Dissertation

Wu, Jia-Hwa (2007) "*Improvement of Data Dependence Testing in Parallel Compilers,*" Ph.D. Dissertation, National Cheng Kung University

Grants

Professional Certifications

- *MCAS WORD 2007*, MICROSOFT, 2010/3
- *MCAS POWERPOINT 2007*, MICROSOFT, 2010/3
- *MCAS EXCEL 2007*, MICROSOFT, 2010/3
- *MCAS OUTLOOK 2007*, MICROSOFT, 2010/3
- *MCAS 2007 MASTER*, MICROSOFT, 2010/3
- *Project Management*, Computer Skills Foundation, 2009/5
- *Dreamweaver 8*, Adobe Certified Associate, 2009/4

- *Flash 8*, Adobe Certified Associate, 2009/4

Professional Experience
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Professional Service
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