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Education

- PhD, Computer Science & Information Engineering, National Taiwan University, 1997/6
- Master, Computer Science & Information Engineering, National Taiwan University, 1992/6

Area of Specialty

Graph Theory, Interconnection Networks, Algorithm

Academic Experience

- Assistant Professor, Department of Information Management, Southern Taiwan University of Science and Technology, 1997/8 to present

Publications

Journal Papers:

1. Sientang Tsai, Wei-Yeh Chen, **Hui-ling Huang** (2014) "Using Sticker Model to Solve the Clique Problem on DNA-Based Computing," *Computer Science and Information Technology*, 2(6), 281-286.

2. Chao-Wen Huang, **Hui-Ling Huang**, Sun-Yuan Hsieh (2011) "Edge-bipancyclicity of star graphs with faulty elements," *Theoretical Computer Science*, 412(50), 6938-6947. [**SCI**]

3. Sun-Yuan Hsieh, Che-Nan Kuo, and **Hui-Ling Huang** (2009) "1-Vertex-Fault-Tolerant Cycles Embedding on Folded Hypercubes," *Discrete Applied Mathematics*, 157(14), 3094-3098. [**SCI**]

4. Tsong-Jie Lin, Sun-Yuan Hsieh, and **Hui-Ling Huang** (2009) "Cycle and Path Embedding on 5-ary *N*-cubes," *Theoretical Informatics and Applications*, 42(1), 133-144. [**SCI**]

5. Jywe-Fei Fang, Yuh-Rau Wang, and **Hui-Ling Huang** (2007) "The *m*-Pancycle-Connectivity of a WK-Recursive Network," *Information Sciences*, 177(24), 5611-5619. [**SCI**]

6. Sun-Yuan Hsieh, Tsong-Jie Lin, and **Hui-Ling Huang** (2007) "Panconnectivity and Edge-Pancyclicity of 3-ary *N*-cubes," *Journal of Supercomputing*, 42(2), 225-233. [**SCI**]

7. Gen-Huey Chen, Shien-Ching Hwang, **Hui-Ling Huang**, Ming-Yang Su, and Dyi-Rong Duh (2001) "A General Broadcasting Scheme for Recursive Networks with Complete Connection," *Parallel Computing*, (27), 1273-1278. [**SCI**]

8. Ming-Yang Su, **Hui-Ling Huang**, Gen-Huey Chen, and Dyi-Rong Duh (2000) "Node-disjoint Paths in Incomplete WK-recursive Networks," *Parallel Computing*,

(26), 1925-1944. [**SCI**]

9. **Hui-Ling Huang** and Gen-Huey Chen (1999) "Combinatorial Properties of Two-level Hypernet Networks," *IEEE Transactions on Parallel and Distributed Systems*, 10(11), 1192-1199. [**SCI**]

10. **Hui-Ling Huang** and Gen-Huey Chen (1998) "Topological Properties and Algorithms for Two-Level Hypernet Networks," *Networks*, 31, 105-118. [**SCI**]

Conference Papers:

1. C. C. Chen, M. C. Shen, **H. L. Huang,** B. Y. Zhang (2016) "Using Classification Analysis to Find the Adaptive Readers of Tourism Books," *The 2016 Conference on STUST Department of Leisure, Recreation, and Tourism Management*, Taiwan (R.O.C.), 2016/10/29. (in Chinese)

2. C. C. Chen, T. Y. Chen, **H. L. Huang,** D. L. Wu (2015) "Using Data Mining Techniques to Check Careless Diagnosis for Diseases," *Proceedings of the 2015 International Conference on Humanities and Information - Globalization, Localization and Innovation*, Taiwan (R.O.C.), 2015/12/3. (in Chinese)

3. C. C. Chen, M. C. Shen, **H. L. Huang,** J. Q. Ren (2015) "Using Data Mining Techniques to Find the Adaptive Consumers of Tourism Spot," *The 2015 Conference on STUST Department of Leisure, Recreation, and Tourism Management*, Taiwan (R.O.C.), 2015/11/28. (in Chinese)

4. C. C. Chen, **H. L. Huang**, Z. J. Huang, T. Y. Chen (2014) "Using Mining Techniques to Detect Fraud Bidders of Auction Goods," *Proceedings of the Industrial Management and Information Application Innovations Conference*, Yunlin County, Taiwan (R.O.C.), 2014/11/4. (in Chinese)

5. C. C. Chen, **H. L. Huang**, C. N. Chen, F. J. Hong (2013) "Using Clustering Methods to Find the Adaptive Readers of Books in Library," 2013 *Asia Pacific International Conference on Small & Medium Enterprise Innovation*, Yunlin County, Taiwan (R.O.C.), 2013/11/5. (in Chinese)

6. **Hui-Ling Huang** and Shi-Hsuan Weng (2012) "The Embedding Three-Dimensional Mesh into the Recursive Circulant Graph," *Proceedings of the 7th E-Learning and Information Technology Symposium*. (in Chinese)

7. Shi-Jing Tang and **Hui-Ling Huang** (2011) "A Study on the Change of Microsoft Windows Registry by Virus Infection – Taking Trojan for Example," *Proceedings of the 6th E-Learning and Information Technology Symposium*. (in Chinese)

8. **Hui-Ling Huang** and Yi-Jhong Lai (2006) "Fault Tolerance Measures in Recursive Circulant Graph on Forbidden Faulty Sets," *Proceedings of the second International Conference on Computer and Network Technologies on Education*. (in Chinese)

9. **Hui-Ling Huang** and Sin-Sian Wu (2005) "Fault Tolerance Measures in Folded Hypercube on Forbidden Faulty Sets," *Proceedings of the 11th Mobile Computing Workshop*. (in Chinese)

10. Shin-Feng Tsai and **Hui-Ling Huang** (2004) "On Arbitrary Binary Trees of Hypercubes," *Proceedings of the 21th Workshop on Combinatorial Mathematics and Computation Theory*, 228-233.

11. Ping-Ying Tsai and **Hui-Ling Huang** (2002) "Node-Disjoint Paths Algorithm on the Alternating Group Graph," *Proceedings of the 17th Technology and Vocational Education Conference*, 739-749.

12. Hao-Shun Hung and **Hui-Ling Huang** (2001) "Broadcasting on the Alternating Group

Graph," *Proceedings of the National Computer Symposium*, A031-A041.

13. **Hui-Ling Huang** and Gen-Huey Chen (1997) "Combinatorial Properties of Two-Level Hypernet Networks," *Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications*, 1315-1324.

Dissertation

A Study on Two-Level Hypernet Networks, Department of Computer Science and Information Engineering, National Taiwan University, June 1996, Advisors: Gen-Huey Chen.

Grants

1. National Science Council, No: NSC99-2221-E-218-026, "The Study on Linear Layout for Hypercubic Networks," 2010/8 - 2011/7.
2. National Science Council, No: NSC 93-2213-E-218-030, "A Study on Forbidden Faulty Sets for k-ary n-cubes," 2004/8-2005/7.
3. National Science Council, No: NSC 92-2213-E-218-027, "A Study on Forbidden Faulty Sets for Alternating Group Graph," 2003/8-2004/7.
4. National Science Council, No: NSC 91-2213-E-218-011, "A Study on Forbidden Faulty Sets for Hypernet," 2002/8-2003/7.
5. National Science Council, No: NSC 90-2213-E-218-020, "Fault-Tolerant Property of Variant Hypercube Networks," 2001/8-2002/7.
6. National Science Council, No: NSC 89-2213-E-218-001, "A Study on Generalized Hierarchical Completely-Connected Networks," 2000/8-2001/7.

Entrusted Practical Projects

1. H. L. Huang, 2015/10/1 - 2016/3/31, An App for New Lifestyle Shopping Platform, No: 331040469.
2. H. L. Huang, 2015/5/1 - 2015/10/31, A New Application of the Hand Held Device on Fire Alarm System, No: PS104110183.
3. H. L. Huang, 2014/1/1 - 2014/5/31, Product Introduction Platform and Web App, No: 331030014.

Professional Certifications

1. MTA HTML5 Application Development Fundamentals, No: F425-0574, Microsoft, 2015/10
2. MTA Windows Operating System Fundamentals, No: F425-0573, Microsoft, 2015/10
3. CERPS Fundamentals of APP for eBusiness MIT App Inventor 2.0, No: CERPS1504824, Chinese Enterprise Resource Planning Society, 2015/6
4. TQC Mobile Device Application Professional, No: 132141200000710, Computer Skills Foundation, 2014/11
5. TQC Webpage Program Design Certification HTML5, No: 232130900000640, Computer Skills Foundation, 2013/09
6. ITE Linux Administration IT Expert Certification, No: 311121100000010, Information Technology Expert, 2012/11
7. TQC Dreamweaver CS4 Web Design Advanced, Computer Skills Foundation,

2011/12
8.   MCAS Office Word 2007, Microsoft, 2010/3
9.   MCAS Office PowerPoint 2007, Microsoft, 2010/3
10. MCAS Office Excel 2007, Microsoft, 2010/3
11. MCAS Office Outlook 2007, Microsoft, 2010/3
12. MCAS Office 2007 Master, Microsoft, 2010/3
13. CCAI, No: 473456131362, Cisco, 2000/10
14. Cisco Certified Network Associate - CCNA, No: CSCO10138179, Cisco, 2000/9

Patents

1.   Magnetic Ice Sticks, 2016/5/21 – 2025/12/29, M521900.
2.   Advertising Playback Method and Apparatus, 2016/1/21 – 2034/2/4, I518641.
3.   Concealed Firearms, 2014/7/1 – 2024/3/11, M481393.
4.   The Power Supply I/O Device on Electronic Communication Equipment, 2014/5/11 – 2023/12/22, M478299.