

Di-Wei Huang (dwh@cs.umd.edu)

Department of Computer Science, University of Maryland, A.V. Williams Bldg., College Park, MD 20742

EDUCATION	Ph.D. program in Computer Science	September 2008 – Present
	<ul style="list-style-type: none">• University of Maryland – College Park	
	M.S. in Computer Science and Information Engineering	June 2006
	<ul style="list-style-type: none">• National Taiwan University, Taiwan.• Cumulative GPA: 4.0• Thesis: <i>WMM: a Mobility Management Mechanism Using Location Cache for Wireless Mesh Networks</i>.	
	B.S. in Computer Science and Information Engineering	June 2004
	<ul style="list-style-type: none">• National Chiao-Tung University, Taiwan• GPA: 3.91 (overall), 3.97 (major), class ranking: 2/55 (3.6%)	
ACADEMIC EXPERIENCE	Teaching Assistant	September 2008 – Present
	<ul style="list-style-type: none">• University of Maryland• CMSC350 Introduction to Algorithms• CMSC417 Computer Networks• CMSC420 Data Structures	
	Research Assistant	February 2008 – August 2008
	<ul style="list-style-type: none">• National Taiwan University• Designed and evaluated a secure communication framework.	
	Student Research Assistant	September 2004 – June 2006
	<ul style="list-style-type: none">• National Taiwan University• Designed, prototyped, and evaluated a mobility management mechanism for wireless mesh networks, which then became my thesis topic.• Participated in building Ubiquitous Multimedia Messaging (UMM) platform, an award-winning design that integrates common messaging systems including SMS, MMS, E-mail, IM, etc.• Designed and implemented IPv6 tunneling servers, tunneling brokers, and client-side tools.• Led an undergraduate team in developing QoS monitor for VoIPv6.	
	Network Administration Staff	June 2005 – June 2006
	<ul style="list-style-type: none">• National Taiwan University• Maintained network services, including wireless LAN, DNS, NAT, etc.	
	Teaching Assistant	February 2005 – January 2006
	<ul style="list-style-type: none">• National Taiwan University• Personal Communication Services• Information Systems, Fall 2005.	
HONORS AND AWARDS	Network Administration Assistant	September 2002 – March 2004
	<ul style="list-style-type: none">• National Chiao-Tung University• Maintained workstations; Provided technical support at Computer and Network Center.	
	Best Master's Thesis Award, Institute of Information & Computing Machinery, Taiwan, 2006.	
	2nd Prize, The <i>Mobileheroes</i> Wireless Communication Software Design Contest, Taiwan, 2004.	
	Excellence Award, Programming Contest, National Chiao-Tung University, 2003.	
	The Xun Hwa Scholarship, National Chiao-Tung University, 2003.	
	The Mr. Shao Xun Yuan Memorial Scholarship, National Chiao-Tung University, 2002.	
	The 2nd Place, Freshman's Programming Contest, National Chiao-Tung University, 2001.	

- Huang, Di-Wei, Lin, P., and Gan, C.-H., “Design and Performance Study for a Mobility Management Mechanism (WMM) Using Location Cache for Wireless Mesh Networks,” *IEEE Transactions on Mobile Computing*, 7(5):546–556, May 2008.
- Guizani, M., Lin, P., Cheng, S.-M., Huang, Di-Wei, and Fu, H.-L., “Minislot Allocation for Wireless Mesh Network,” *IEEE Transactions on Vehicular Technology*, 57(6):3732–3745, November 2008.

Conferences

- Huang, Di-Wei and Lin, J., “Scaling Populations of a Genetic Algorithm for Job Shop Scheduling Problems using MapReduce,” In *Proceedings of the First International Workshop on Theory and Practice of MapReduce (MAPRED’10)*, November 2010, Indianapolis, Indiana, USA. (to appear)
- Huang, Di-Wei, Lin P., Gan C.-H., and Jeng J.-Y., “A Mobility Management Mechanism Using Location Cache for Wireless Mesh Network,” *First International Workshop on Wireless Mesh: Moving Towards Applications (WiMeshNets’06)*, August 2006, Waterloo, Ontario, Canada.
- Cheng, S.-M., Lin, P., Huang, Di-Wei, and Yang, S.-R., “A Study on Distributed/Centralized Scheduling for Wireless Mesh Network,” In *Proceedings of the 2006 International Conference on Wireless Communications and Mobile Computing (IWCMC’06)*, pages 599–604, July 2006, Vancouver, British Columbia, Canada.
- Cheng, S.-M., Lin, P., and Huang, Di-Wei, “A Survey on Radio Resource and Mobility Management for Wireless Mesh Network,” *The 12th Mobile Computing Workshop*, pages 223–231, March 2006, Taichung, Taiwan.