Huy Nguyen

CONTACT INFORMATION

Wireless Research System Group
Department of Computer Science
University of Houston
Houston, Texas 77204

office: +1 713 440-0054
mobile: +1 281 673-5351
nahuy@cs.uh.edu
http://www2.cs.uh.edu/∼nahuy/

EDUCATION

University of Science, VNUHCM, Ho Chi Minh City, Vietnam   **Sep. 2002 − Sep. 2006**
Bachelor of Science

- Accumulated GPA: 8.37/10.0
- Academic ranking: 6/450
- Specialized in software engineering
- Thesis: "*VnElearning: An Integrated Open Source Elearning System*"
- Advisor: Dr. Minh-Triet Tran

Chonnam National University, Gwangju, South Korea   **Mar. 2007 − Mar. 2009**
Master of Engineering

- Accumulated GPA: 4.44/4.50
- Research topics: network management, anomaly and intrusion detection
- Thesis: "*BASMIN: A Way to Maximize Network User Happiness*"
- Advisor: Prof. Deokjai Choi

University of Houston, Houston, Texas   **Aug. 2009 − present**
Doctor of Philosophy in Computer Science

- Expected graduation date: Spring 2013
- Current GPA: 3.91/4.00
- Advisor: Dr. Rong Zheng

RESEARCH INTERESTS

Social computing, wireless and sensor networks, network tomography, convex optimization, machine learning.

TEACHING EXPERIENCE

COSC6377: Computer Networks   **Fall 2009**
- This graduate course emphasizes on the algorithms, protocols and performance evaluation of the Internet. Topics include routing, congestion control, network management, multimedia networks and selected materials in wireless networks.

COSC7388: Advanced Distributed Computing   **Spring 2011**
- This graduate course covers topics on mobile computing and cloud computing with focus on the synergy between the two.

WORKING EXPERIENCE

ELCA Information Technology, Ho Chi Minh City, Vietnam
- *Software Engineer*   **Sep. 2006 − Feb. 2007**

Chonnam National University, Gwangju, South Korea
- *Research Assistant* at Advanced Network Lab   **Mar. 2007 − Feb. 2009**

University of Houston, Houston, Texas
- *Teaching Assistant* at Computer Science Department   **Aug. 2009 − Dec. 2009**
- *Research Assistant* at Wireless Research System Group   **Jan. 2010 − present**

Hong Kong Polytechnic University, Kowloon, Hong Kong
- *Exchanged Research Staff* at Department of Computing   **Nov. 2011 − present**

COMPUTER SKILLS

Operating Systems:
Various Linux distributions, Mac OS, Windows XP, Vista, 7 and Server

Programming Languages:
Pascal, Fortran, Python, Matlab, C/C++, C#, Java, ASP.NET, PHP, JSP, HTML, XML, SQL

Database Systems:
MySQL, Postgre SQL, SQL Server, Oracle, SQLite

Miscellaneous:
Windows Azure Platform, SQL Azure, Microsoft Hawaii Services (cloud computing)
Silverlight XAML (windows mobile programming)

PUBLICATIONS	Mohammad Esmalifalakz, <u>Huy Nguyen</u>, Rong Zheng, and Zhu Han "Stealth False Data Injection using Independent Component Analysis in Smart Grid", In *Proc. of The 2nd SmartGridComm*, October 17-20, Brussels, Belgium, 2011.

<u>Huy Nguyen</u>, Nam Nguyen, Zhu Han and Rong Zheng, "Binary Blind Identification of Wireless Transmission Technologies for Wide-band Spectrum Monitoring", In *Proc. of The 54th Globecom*, December 5-9, Houston, Texas, USA, 2011.

<u>Huy Nguyen</u>, and Rong Zheng, "Binary Independent Component Analysis with OR Mixtures", In *IEEE Transactions on Signal Processing (TSP)*, Vol 59, Issue 7, July 2011.

Arun Chhetri, <u>Huy Nguyen</u>, Gabriel Scalosub, and Rong Zheng, "On Quality of Monitoring for Multi-channel Wireless Infrastructure Networks", In *Proc. of The 11th Mobihoc*, September 20-24, Chicago, Illinois, USA, 2010.

<u>Huy Nguyen</u>, Rong Zheng, and Zhu Han, "Binary is Good: A Binary Inference Framework for Primary User Separation in Cognitive Radio Networks", In *Proc. of The 5th CrownCom*, June 9-11, Cannes, France, 2010.

<u>Huy Nguyen</u>, Tam Van Nguyen, and Deokjai Choi, "How to Maximize User Satisfaction Degree in Multi-services IP Networks", In *Proc. of The 1st ACIIDS*, April 1-3, Quang Binh, Vietnam, 2009.

Tam Van Nguyen, <u>Huy Nguyen</u>, and Deokjai Choi, "Development of a Context Aware Virtual Smart Home Simulator", In *Proc. of The 3rd ICUT*, December 18-20, Ho Chi Minh City, Vietnam, 2008.

<u>Huy Nguyen</u> and Deokjai Choi, "Application of Data Mining to Network Intrusion Detection: Classifier Selection Model", In *Proc. of The 11th APNOMS*, October 22-24, Beijing, China, 2008.

<u>Huy Nguyen</u> and Deokjai Choi, "Network Anomaly Detection: Flow-Based or Packet-Based Approach?", In *Chonnam National University Networking Journal*, June 2008.

Tam Van Nguyen, Wontaek Lim, <u>Huy Nguyen</u>, and Deokjai Choi, "Context Awareness Framework based on Contextual Graph", In *Proc. of The 5th WOCN*, May 5-7, Surabaya, Indonesia, 2008.

<u>Huy Nguyen</u>, Tam Van Nguyen, Dongil Kim, and Deokjai Choi, "Network Traffic Anomalies Detection and Identification with Flow Monitoring", In *Proc. of The 5th WOCN*, May 5-7, Surabaya, Indonesia, 2008.

Tam Van Nguyen, Wontaek Lim, <u>Huy Nguyen</u>, and Deokjai Choi, "Context Ontology Implementation for Smart Home", In *Proc. of The 2nd ICUT*, December 18-20, Bali, Indonesia, 2007.

HONOURS AND AWARDS	Excellent Student of The University of Natural Sciences, 2002 to 2006

Learning Encouraging Scholarship of The University of Natural Sciences, 2002 to 2006

TMA scholarship for Best Computer Science Student of the Year, 2006

The University of Natural Sciences' Roll of Honor, 2006

Institute of Information Technology Assessment (IITA) Scholarship, 2007 to 2008

Chonnam National University Global Scholarship, 2009

Chonnam National University BK21 Scholarship, 2009

ACM MobiCom/MobiHoc 2010 Student Travel Grants, 2010

WiSeR Best Student of the Year, 2010, 2011

Hong Kong Polytechnic University Exchange Research Student Scholarship, 2011

REFERENCES	**Dr. Rong Zheng**	**Dr. Zhu Han**
	Associate Professor	Assistant Professor
	Department of Computer Science	Department of Electrical and Computer Engineering
	University of Houston	University of Houston
	Email: `rzheng@cs.uh.edu`	Email: `zhan2@mail.uh.edu`