

# Curriculum Vitae

Mehra Nouroz Borazjany

The University of Texas at Dallas  
800 W. Campbell Road  
Richardson, Texas 75080-3021

e-mail: [mehra@utdallas.edu](mailto:mehra@utdallas.edu)

<http://www.utdallas.edu/~mehra>

## EDUCATION

- PhD in CSE, University of Texas at Arlington *Arlington, TX* *Jan. 2010– May 2013*  
Thesis: Applying combinatorial testing to systems with a complex input space
- Training on SS7 probe development, iAxis Limited *Hyderabad, India* *Aug. 2007– Sep. 2007*
- M.S. in Computer Architecture, University of Sci. and Tech *Tehran, Iran* *Aug. 2004–Apr. 2007*
- B.S. in Hardware Engineering, Tehran Azad University, *Tehran, Iran* *Aug. 1999–Apr. 2003*

## TEACHING EXPERIENCE

- University of Texas in Arlington, Arlington, Texas* *Aug. 2010–May 2013*
- Lectured, graded assignments, directed discussion groups with the following courses in graduate and undergraduate level,
    - Programming Languages
    - Object-Oriented Software Engineering
    - Software Testing and Maintenance
    - Software Project Management
    - Introduction to Computer Science and Engineering
- Azad University, Parand Branch, Tehran, Iran* *Dec. 2007–Dec. 2008*
- Taught the following undergraduate courses
    - Computer Graphics
    - Web Design
    - Internet

## PROFESSIONAL EXPERIENCE

### **University of Texas at Dallas**

- Senior Lecturer, Department of Computer Science*** *Richardson TX* *Sept. 2014–Present*
- Teaching Computer Science II (in java) to undergraduate students
  - Teaching Object-Oriented Analysis and Design to graduate students

### **Numerex Corp**

- Performance Test Engineer*** *Dallas TX* *June 2013–Aug. 2014*
- Perform capacity and load tests on the various systems, including baseline tests and regression tests.
  - Identify bottlenecks and areas of improvement such as software, database, or hardware optimization.
  - Present the performance and capacity planning to the board member of the company.

## **University of Texas at Arlington**

### **Research Assistant**

*Arlington TX*

*Jan. 2010–May 2013*

- Introduced and developed a methodology for input parameter modeling specific to combinatorial testing based on input space structure.
- Applied combinatorial testing to five real-life applications.
- Evaluated and compared the proposed methodology to two random approaches based on the code coverage and fault detection.

### **Maintenance Inc.**

*Dallas TX*

*Nov. 2008–Feb. 2010*

### **Web Application Developer**

- Developed a web-based application for gathering information from different branches for payroll department.

### **Data Processing Company (DP Co.)**

*Tehran, Iran*

*Aug. 2006 – Oct. 2008*

### **Technical Developer**

- Designed and implemented the “Revenue Assurance System” (RAS). This system was a part of an inter-partner billing (IPB), performed by Telecommunication Infrastructure Company to monitor the entire process of billing.

## **PUBLICATIONS**

- Mehra N. Borazjany, Laleh Gh., Yu Lei, Raghu Kacker, and Rick Kuhn. "An Input Space Modeling Methodology for Combinatorial Testing", In *Software Testing, Verification and Validation (ICSTW), 2013 IEEE Sixth International Conference on*, pp. 372-381. IEEE, 2013.
- Laleh Gh., Mehra N. Borazjany, Yu Lei, R.N. Kacker, and D.R. Kuhn, "Applying Combinatorial Testing to the Siemens Suite", In *Software Testing, Verification and Validation (ICSTW), 2013 IEEE Sixth International Conference*. IEEE, 2013.
- Linbin Yu, Borazjany, Mehra N., Yu Lei, Raghu Kacker, and Rick Kuhn. " An Efficient Algorithm for Constraint Handling in Combinatorial Test Generation." In *Software Testing, Verification and Validation (ICST), 2013 IEEE sixth International Conference on*, pp, 242-251. IEEE, 2012.
- Borazjany, Mehra N., Linbin Yu, Yu Lei, Raghu Kacker, and Rick Kuhn. "Combinatorial testing of acts: A case study." In *Software Testing, Verification and Validation (ICST), 2012 IEEE Fifth International Conference on*, pp. 591-600. IEEE, 2012.