

## ACADEMIC QUALIFICATION

University of Southern California, Los Angeles, CA

**Ph.D. in Computer Engineering**

**2012**

Dissertation: "Backpressure Delay Enhancement for Encounter-based Mobile Networks While Sustaining Throughput Optimality"

GPA: 3.87/4.00

Research interests: stochastic network optimization, backpressure, delay-tolerant networking (DTN), intermittently connected mobile networks (ICMN)

University of Southern California, Los Angeles, CA

**M.S. in Computer Engineering**

**2006**

GPA: 3.90/4.00

Core subjects: computer networks, computer security, VLSI, computer architecture, compiler design, computer algorithms

King Saud University, Riyadh, Saudi Arabia

**B.S. in Computer Sciences with Honor**

**2002**

Graduation Project: "Fingerprint Verification System"

GPA: 4.71/5.00

Ranked 1<sup>st</sup> out of 89 students

Core Subjects: computer security, computer networks, database systems, software engineering, artificial intelligence, compilers, operating systems, programing, file systems, logic design, computer architecture

## PUBLICATIONS

- Alresaini, Majed, et al. "Backpressure Delay Enhancement for Encounter-Based Mobile Networks While Sustaining Throughput Optimality." *IEEE/ACM Transactions on Networking* 24.2 (2016): 1196-1208.
- Alresaini, Majed, et al. "Backpressure with adaptive redundancy (BWAR)." *INFOCOM, 2012 Proceedings IEEE. IEEE*, 2012.

## PATENTS

- Alresaini, Majed, Bhaskar Krishnamachari, and Michael J. Neely. "Backpressure with adaptive redundancy." U.S. Patent No. 9,444,751. 13 Sep. 2016.

## AWARDS

Outstanding Academic Achievement, University of Southern California

**2006**

Outstanding Computer Developer, Computer Club, Ministry of Education

**1998**

Scientific Excellence, Ministry of Education

**1993**

## PROFESSIONAL EXPERIENCE

King Saud University, Riyadh, Saudi Arabia <b>Assistant Professor</b> Courses: computer networks, simulations and system modeling, computer organization and design	<b>2012-Now</b>
King Saud University, Deanship of e-Transactions and Communications Riyadh, Saudi Arabia <b>Vice Dean</b> Supervise information infrastructure	<b>2014-2016</b>
King Saud University, Deanship of e-Transactions and Communications Riyadh, Saudi Arabia <b>Consultant</b> Supervise communications, networks and information security	<b>2012-2014</b>
University of Southern California, Los Angeles, CA <b>Teaching Assistant</b> Courses: computer algorithms, computer networks, wireless communications	<b>2007-2011</b>
King Saud University, Riyadh, Saudi Arabia <b>Instructor</b> Courses: logic design, computer architecture Instruct tutorial lectures in computer engineering department. Implement web based email for the university. Administrate PC lab. Awarded scholarship for Master and PhD degrees	<b>2003-2012</b>
National IT Plan, Riyadh, Saudi Arabia <b>Researcher</b> Research in countries experiments in telework and how it can be enhanced in Saudi Arabia as a part of a strategic national information technologies plan for the country.	<b>2003</b>
MeduNet, Riyadh, Saudi Arabia <b>System Engineer</b> Enhance computer and network security in MeduNet. Administrate web servers (IIS). Implement live media streaming over the internet. Implement web based email.	<b>2002-2003</b>

DataServe, Riyadh, Saudi Arabia

**Software Developer**

**2000-2002**

Develop and customize document management and archiving systems including Panagon FileNet products using C++, Visual Basic, ASP, XML.

Advanced Electronic Company, Riyadh, Saudi Arabia

**Software Developer**

**2000**

Develop statistical randomness tests used in testing random keys for encryption using C++ deployed in an embedded system.

### ATTENDED COURSES

**Leadership Workshop**, Wilson Learning, Dusseldorf, Germany

**2016**

**University Third Mission Management**, Stanford University and Polytechnic University of Valencia, Valencia, Spain

**2015**

**DRSC Technology and Product Training**, Cohda Wireless, Adelaide, Australia

**2014**

**Changing the Learning Landscape, Managing e-Learning Programs**, Washington, DC

**2014**

**TiER1 e-Learning Strategy Course**, Washington, DC

**2014**

**Innovation Leadership Program**, University of Bath in UK, Dubai, UAE

**2013**

**Project Management Professional (PMP) Certification Preparation Training Program**

**2013**

**Business Fundamentals for Non-Business Professionals**, Graduate School of Business Administration, University of Southern California, Los Angeles, CA,

**2009**

Four months course includes business strategy, managerial accounting, business marketing, business finance, operations, high performance organizations

**Systems Security Certified Practitioner**

**2003**

**Security Certified Network Professional: Boot Camp**

**2002**

**Strategic Planning**

**2002**

### INTERESTS

Computer networks, cryptography, computer security, wireless and mobile network, computer algorithms, programming, mathematical analysis, probabilities, solving puzzles and riddles