

Curriculum Vitae

Last updated 03.11. 2009

PERSONAL INFORMATION

First name: Mohammad-Reza (Reza)
Last name: Akhavan
Date of Birth: 1977
Marital status: Married with no children

CONTACT INFORMATION

Address: Centre for Telecommunication Research (CTR), King's College
London, Strand, London, WC2R 2LS, UK
E-mail: reza.akhavan@ieee.org / reza.akhavan@kcl.ac.uk
Phone: (+44) (20) 784 828 89
Mobile: (+44) (0) 781 868 2550

RESEARCH INTERESTS

Wireless Sensor Networks (Reliable & Energy Efficient Communication Protocols),
Environmentally Powered WSNs, Wireless Systems and Computer Networks

EDUCATION

- 1) MPhil/PhD Candidate, Centre for Telecommunications Research** (In progress)
King's College London (KCL), University of London, UK
Reliable and Energy Efficient MAC and Routing Protocols for Lossy WSNs
- 2) Master of Science in Computer Science and Engineering** Aug. 04 - Jun. 06
Lulea University of Technology (LTU), Lulea, Sweden
Passed Courses: Computer Communications, Software Engineering, Antennas and
Propagation, Network Algorithms, Networking Projects, Real-Time Systems
- 3) Bachelor of Science in Electrical-Electronic Engineering** Oct. 96 - Sep. 00
Azad University in Tabriz, Tabriz, Iran
Rank: Top %5 Graduate students of Electrical Engineering Dept. in 2000
- 4) Diploma in Mathematics & Physics** Oct. 92 - May 96
Abouzar High School, Tabriz, Iran
GPA: 17.39 out of 20

PUBLICATIONS:

Mohammad-Reza Akhavan, Thomas Watteyne, Hamid Aghvami, Energy Efficient
Broadcast MAC Protocol for Lossy Wireless Sensor Networks, *Submitted to IEEE
Communications Letter*

Mohammad-Reza Akhavan, Mona Ghassemian, Hamid Aghvami, EOR: An
Energy-Aware Opportunistic Routing in Heterogeneous Wireless Sensor Networks,
Ubiquitous Computing at a Crossroads Workshop, Imperial College London, UK, 6-
7 Jan 2009

Kaustubh Phanse, **Mohammad-Reza Akhavan** and Ulf Olsson, Study of IEEE
802.11 Wireless Networks in Harsh Environments, *The 19th International
Congress and Exhibition on Condition Monitoring Diagnostic Engineering
Management (COMADEM 06)*, LTU, Sweden, 12–15 June 2006

CONFERENCE REVIEVER

20th Personal, Indoor and Mobile Radio Communications Symposium (**PIMRC**) 09
16th International Conference on Telecommunications (**ICT**) 2009
5th International Workshop on Wireless Multimedia Networking and computing
(**WMuNeP**) 2009

PROFESSIONAL REGISTRATIONS

- 1) MIEEE** (Member of the Institute of Electrical and Electronic Engineers)
- 2) MIET** (Member of Institution of Engineering & Technology)
- 3) IEEE ComSec** (Member of the IEEE Communications Society)

PARTICIPATION

- The Internet of Things Goes Wireless, CTR, King's College London, UK, Sep.9, 09
- **CONET Summer School**, SENIOT: From Sensor Networks to Networked Intelligent Objects, Bertinoro, Italy, July 26 – August 1, 2009 (*received a grant*)
- 3rd International Conference on Geosensor Networks, Oxford, UK, July 13-14, 2009
- Ubiquitous Computing at Crossroads Workshop (UbiComp), Imperial College London, UK, 6 – 7 Jan 2009 (*received a grant*)

PROJECTS

- 1) Performance Limits of IEEE 802.11 Wireless Technologies Jan. - Jun. 06
- 2) Validation of EURANE model for **HSDPA (Offered by Ericsson)** Feb. - May 05
- 3) 8051 Microcontroller Programmer May - Sep. 00
- 4) Hardware Lock Device Oct. - Nov. 99

CO-CURRICULAR ACTIVITIES

- 1) Laboratory demonstrator for “Computer Engineering II” module (C++ programming) King's College London, UK
- 2) Member of ROLL (Routing Over Low power and Lossy networks) IETF WG
- 3) Member of Lulea Academic Computer Society (LUDD) at LTU, Sweden
- 4) Member of organizing committee of 1st and 2nd “**Intelligent Mice Robotic Competitions**” at IEEE branch, Azad University in Tabriz, Iran

CERTIFICATION DIPLOMAS

- 1) **MCP** (Microsoft Certified Professional)
- 2) **IELTS** (International English Language Testing System) 6.5 Academic Aug. 2003
- 3) **Cisco** Systems Diploma, Tabriz Institute of Technology (TIT)

PROFESSIONAL PEXPERIENCE

- 1) **IT Engineer (PT)** Jul. 07 - Present
Azad University in Oxford, Oxford, UK
Responsibilities:
 - Direct responsibility for meeting the internal IT needs of the University
 - Provide technical plan for computer network infrastructure
- 2) **Technical Expert of Computer Networks, (FT)** Jun. 01 - Aug. 04
ICT Centre, East Azerbaijan Science & Technology Park, Tabriz, Iran
Responsibilities:
 - Installations, maintenance, administration, repairs, upgrades & troubleshooting of wireless and wired large office networks
 - Server installation, configuration and troubleshooting
 - Installing and defining customized backup and restoration solutions
 - Installing DNS, WINS, AD, DHCP, Firewalls, proxy switches and routers
- 3) **Computer Networking Teacher, (PT)** Aug. 03 - Aug.04
Tabriz Institute of Technology (TIT), Tabriz, Iran
 - Teaching Subjects: MCP preparation courses and Computer Networks
- 4) **Network Administrator, (PT)** Feb. 00 - Apr. 01
Helpdesk, Azad University in Tabriz, Tabriz, Iran

COMPUTER SKILLS

- 1) **Operating Systems**
Contiki COOJA: OS for Sensor Networks (in progress), QNX Real-Time Operating System (RTOS), MS-DOS, Windows 3.x / 9x / NT / 2000 / XP / Vista / Advanced Server 2000/03 (Active Directory), Linux
- 2) **Software**
C++, Programming the Texas Instrument eZ430-RF2500 (in progress), NS-2, OPNET, MatLab, MS Visio, Gnuplot, NANS2, TraceGraph, NTTac-Plus, MDaemon, Whatsup Gold, Checkpoint Firewall, MS Office

LANGUAGES **Azeri-Turkish:** Mother tongue, **English:** Fluent, **Persian:** Native