

AHMAD GHARANJIK

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Education

- **K. N. Toosi University of Technology** Tehran, Iran
M.Sc in Telecommunication Systems 2007-2010
 - Master Thesis: Diversity and Cooperative Relaying in Wireless Networks
 - Advisor: Dr. K. Mohamedpour
 - Key Courses: Stochastic Process, Advanced Digital Communication, Cryptography, Coding Theory, Digital Signal Processing, Adaptive Filters
- **University of Tabriz** Tabriz, Iran
B.Sc in Electrical Engineering 2001-2006
 - Senior Thesis: Performance Study of Pseudo-Random Code Generators
 - Advisor: Dr. A. Agha-Golzadeh
 - Key Courses: Electrical Circuit Analysis, Data Communications, Engineering Math, Signal and Systems, Microprocessors, Electromagnetic, Computer Networks
- **Pre University Center of Nemoneh Estrabadi** Gorgan, Iran
Pre University Certificate in Mathematics 2000-2001

Publications

- A. Gharanjik, K. Mohamedpour, *Switch and Stay Partial Relay Selection over Rayleigh Fading Channels*, submitted to IET Communications Journal, 23-Jun-2010.
- A. Gharanjik, K. Mohamedpour, *Performance Study of Cooperative Diversity Network with Selection Combining*, accepted to IEEE PIMRC 2010 Conference, 26 - 30 September 2010, Istanbul, Turkey.
- A. Gharanjik, K. Mohamedpour, S. M. H. Andargoli, *Performance Analysis of Dual-Hop Transmission with Selection Combining Fixed Relay*, Proc. IEEE CNSR 2010, pages 40 - 44, May 2010, Montreal, Canada.
- A. Gharanjik, K. Mohamedpour, S. M. H. Andargoli, M. Hoseinzadeh, *End-to-End Performance of Dual Hop Transmission with Fixed Relay*, IEEE Wireless Telecommunication Symposium (WTS 2010), April 2010, Florida, USA.
- M. Hoseinzade, K. Mohamedpour, S. M. H. Andargoli, A. Gharanjik, *Decision Feedback Channel Estimation for Alamouti coded OFDM-MIMO Systems*, IEEE Wireless Telecommunication Symposium (WTS 2010), April 2010, Florida, USA.
- A. Gharanjik, *So far, So Close; Challenges and Opportunities of LTE*, Teyf Bargh Scientific and Analytic Magazine, Vol. 4, No. 14, December 2008, Tehran, Iran (In Persian).
- A. Gharanjik, *An Overview of Technical Specification of LTE*, Teyf Bargh Scientific and Analytic Magazine, Vol. 4, No. 16, May 2009, Tehran, Iran (In Persian).

Work Experience

- **Huawei Technologies Co., Iran Branch (SKYCOM)** Tehran, Iran
WiMAX NOC CS Engineer April 2010 - Present
 - **Main responsibilities:** Monitor the performance of all WiMAX Core Network NEs and provide proposals for upgrades in network.
 - Troubleshooting and providing troubleshooting and analysis report

- To perform operation, maintenance and development activities that provides improved performance.
- To perform First Line Maintenance support for all WiMAX Core Network NEs and associated elements.
- To analyze daily reports which include traffic report, busy hour report, signaling utilization report, WiMAX network performance report, congestion report and etc.

- **Karizan Telecomm** Tehran, Iran
Embedded Linux Engineer *March 2009 - April 2010*
 - Part of a small team compiling and configuring the routing and network managing protocols (OSPF, ZEBRA, NetSNMP) for ARM Linux.
 - Responsibilities include general development and testing of the ARM developing boards for routing SNMP data.
- **Teyf Sharif Consultants Co.** Tehran, Iran
Mobile Section Expert *March 2008 - March 2009*
 - Part of mobile section team analyzing and surveying mobile markets of different countries and mobile technologies.
 - Responsibilities include providing technical reports and articles published in the monthly magazine.

Skills

Computer Programming: C/C++, Java2 Micro Edition (J2ME), MATLAB programming, L^AT_EX.

Operating System: Ubuntu Linux, ARM Linux, Windows XP, Vista; Virtualization of Linux guests using VMWare.

Software: MATLAB, Microsoft Office (Word, PowerPoint, Excel, Visio), NetBeans, WinEdt, Cadence OrCAD

Professional Software: Huawei OptiX iManager T2000, Huawei LMT for WiMAX, Huawei iManager M2000

Language: English: Good; German: Fair; Turkmen: Native; Persian: Native.

Extracurricular Activities

- **Journal reviews:** International Journal of Electronics and Communications (AEÜe), Elsevier, 2010.
- Member of Organizing Committee: WiMAX Conference, Iran University of Technology, February, 2009, Tehran, Iran.
- Member of Organizing Committee: WiMAX Technical Workshop, Sharif University of Technology, March 11, 2009, Tehran, Iran.
- Member of Electrical Engineering Departments Volleyball team during B.Sc and M.Sc.