

CURRICULUM VITAE

Name: Sari Khatalin, Ph.D.
Title: Associate Professor
Address: Department of Electrical Engineering
Jordan University of Science and Technology
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Education

- **Doctor of Philosophy in Electrical Engineering** - December of 2004
The University of Texas at Dallas, Richardson, Texas, U.S.A.
Dissertation title: *Channel Capacity of Adaptive Transmission in Fading Environment with Diversity Combining Techniques*
Advisor: Professor John P. Fonseka
- **Master of Science in Electrical Engineering**
with specialization in Telecommunications - May of 2001
The University of Texas at Dallas, Richardson, Texas, U.S.A.
- **Bachelor of Science in Electrical Engineering** - May of 1991
The University of Texas at Arlington, Arlington, Texas, U.S.A.

Research Interests

Performance analysis of wireless communication systems, diversity systems, MIMO systems, Ad hoc networks, and wireless sensor networks.

Professional Experience

- **Department Chairman** **September 2017 to present**
Department of Electrical Engineering
Jordan University of Science and Technology (JUST)
Irbid, Jordan.
- **Associate Professor** **June 2016 to present**
Department of Electrical Engineering
Jordan University of Science and Technology (JUST)
Irbid, Jordan.

- **Assistant Professor** **February 2010 to June 2016**
 Department of Electrical Engineering
 Jordan University of Science and Technology (JUST)
 Irbid, Jordan.

- **Industrial Experience (18 years of industrial experience in Telecommunications)**
 - **Principal Engineer** **September 2006 to November 2009**
 Verizon Communications Inc.
 Richardson, Texas, U.S.A.

 - **Senior Planning Engineer** **October 2000 to August 2006**
 MCI Communications Corp.
 Richardson, Texas, U.S.A.

 - **Planning Engineer** **November 1993 to September 2000**
 MCI Communications Corp.
 Richardson, Texas, U.S.A.

 - **Traffic Engineer** **December 1991 to October 1993**
 MCI Communications Corp.
 Richardson, Texas, U.S.A.

MCI/Verizon Awards

- Global Network Engineering and Planning (GNEP) Highest Achiever Award - 2007
- Verizon 2006 Synergy Initiatives Award – 2006
- FTS-2001 Team Award - 1999
- Ring of Champions - 1998
- Hero award - 1998
- Peak Achiever – 1996

Languages

- Arabic (Native language)
- English

Professional Affiliations

- Institute of Electrical and Electronics Engineers (IEEE), member
- IEEE Communications Society, member
- Jordan Engineers Association, member

Professional Activities

- Served as a reviewer for the following Journals:
 - IEEE Transaction on communications
 - International Journal of Electronics Letters

- AEÜ - International Journal of Electronics and Communications
- Served on several departmental committees in the EE department at Jordan University of Science and Technology.

Master Theses Supervised

- Saddam Khraise, “*Performance Study of Wireless Communication Systems over α - μ Fading Channels*,” EE Dept., Jordan University of Science and Technology (JUST), December 2011.
- Shadi Almanaseer, “*Performance of Digital Modulation over Generalized Rice Fading Channel Model*,” EE Dept., JUST, May 2012.
- Ashraf Al Rimawi, “*Performance Analysis of Wireless Communication systems over η - μ Fading channels*,” EE Dept., JUST, July 2012.
- Sahar Al Ahmad, “*Performance of Multihop Code Division Multiple Access Ad hoc Networks with Diversity Combining Techniques in κ - μ Fading Environments*,” EE Dept., JUST, December 2015.

Doctoral Thesis Supervised/Co-Supervised

There are no Ph.D. programs offered by the Faculty of Engineering at JUST.

Master Thesis Examination Committees

- Served as a member/examiner in over 8 committees.

Undergraduate Senior Projects Supervised

- Mahmoud Nidal Mhasen, “*Implementing LTE (Long Term Evolution) Physical layer [Downlink (DL) & Uplink (UL)]*,” EE Dept., JUST, May 2013.

Courses and Labs Taught

- Signal and systems analysis
- Introduction to Wireless Communications
- Principles of communication Systems
- Electrical Circuit Analysis
- Communication Skills for Engineers
- Communications Laboratory
- Electrical Circuits Laboratory
- Digital Communications Laboratory

- Seminar in Electrical Engineering
- Seminar in Wireless Communications

Publications

1. **S. Khatalin**, and J. P. Fonseka, "On the channel capacity in Rician and Hoyt fading environments with MRC diversity," *IEEE Transactions on Vehicular Technology*, vol. 55, No. 1, pp. 137-141, Jan. 2006.
2. **S. Khatalin**, and J. P. Fonseka, "Capacity of correlated Nakagami- m fading channels with diversity combining techniques," *IEEE Transactions on Vehicular Technology*, vol. 55, No. 1, pp. 142-150, Jan. 2006.
3. **S. Khatalin**, and J. P. Fonseka, "Channel capacity of dual-branch diversity systems over correlated Nakagami- m fading with channel inversion and fixed rate transmission scheme," *IET Communications*, vol. 1, No. 6 pp. 1161-1169, Dec. 2007.
4. **S. Khatalin**, "Performance of dual-branch selection combining diversity systems in non-identical Nakagami- q (Hoyt) fading channels," *IET Commun.*, vol. 4, pp. 585-595, Mar. 2010.
5. **Sari Khatalin**, "Performance analysis of switch and stay combining diversity system over $\kappa-\mu$ fading channels," *AEU - International Journal of Electronics and Communications*, vol. 69, pp. 475 – 486, Feb. 2015.
6. Mahmoud A. Khodeir, **Sari Khatalin**, and Sahar Al Ahmad, "Performance of Multihop CDMA Ad hoc Networks over $\kappa-\mu$ Fading Channels" *The sixth International Conference on Information and Communication Systems (ICICS 2015)*, Amman, Jordan, 07 - 09 Apr 2015.
7. **Sari Khatalin**, "On the Channel Capacity of SSC Diversity System in $\eta-\mu$ and $\kappa-\mu$ Fading Environments," *AEU - International Journal of Electronics and Communications*, vol. 69, pp. 1683 – 1699, Nov. 2015.
8. **Sari Khatalin**, "On the Performance Analysis of SSC Diversity System Over $\eta-\mu$ Fading Channels," *International Journal of Electronics*, vol. 103, pp. 960 – 974, Mar. 2016.
9. Mahmoud A. Khodeir, **Sari Khatalin**, and Sahar Al Ahmad, "Performance of Multihop CDMA Ad hoc Networks with Diversity Combining Techniques over Fading Environments," *Simulation Modelling Practice and Theory*, vol. 64, pp. 69 – 82, May 2016.
10. Mahmoud A. Khodeir and **Sari Khatalin** "SER Approximation for Orthogonal STBC over Nakagami- m Fading Channels", *the seventh International Conference on Information and Communication Systems 2016, (ICICS2016)*, Irbid, Jordan, 05 - 07 April, 2016.
11. Suzan Al-Zoubi1, Rami Mohaisen, Mamoun F. Al Mistarihi, **Sari Khatalin**, and Mahmoud A. Khodeir "On the Outage Probability of DF Relay Selection Cooperative Wireless Networks over Nakagami- m Fading Channels", *the seventh International Conference on Information and Communication Systems 2016, (ICICS2016)*, Irbid, Jordan, 05 - 07 April, 2016.