

Shaika Mukhtar

PH.D · ELECTRONICS AND COMMUNICATION ENGINEERING

National Institute of Technology, Srinagar, Jammu & Kashmir

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Education

National Institute of Technology, Srinagar

Jammu and Kashmir

PH.D ELECTRONICS AND COMMUNICATION ENGINEERING

Date - 2017-2024

- Topic: Multipath Management in Non-orthogonal Multiple Access (NOMA) for Next Generation Communication Systems

Kurukshetra University

Haryana

M.TECH ELECTRONICS AND COMMUNICATION ENGINEERING

Date - 2013-2015

- Topic: Performance Evaluation of MIMO based Spectrum Sensing in Cognitive Radio Systems with Low Peak to Average Power Ratio

Jammu University

Jammu and Kashmir

B.TECH ELECTRONICS AND COMMUNICATION ENGINEERING

Dates - 2008-2012

- Project Title: Design and Implementation of Portable Navigation Device for Visually Impaired Persons

Teaching Experience

Mar 2016-

Sep 2016

Islamic University of Science and Technology, Assistant Professor(Contract basis)

Sep 2016-

Mar 2017

Islamic University of Science and Technology, Assistant Professor(Contract basis)

Mar 2017-

Aug 2017

Islamic University of Science and Technology, Assistant Professor(Contract basis)

Sep 2024-

Dec 2024

NIT Srinagar, Guest Faculty

Technical skills

- Programming & Simulation: MATLAB, Python, C/ C++, SimRIS
- Scientific & Engineering Tools: PSpice, Mathematica, Microsoft Visio
- Tools and Platforms: LaTeX, Windows

Awards and Achievements

- MHRD Research Fellowship from Sept 2017-Sept 2022, NIT Srinagar.
- Qualified UGC-NET

Research interests

- 5G/6G Wireless Communication Systems
- Intelligent Reflecting Surface (IRS) assisted Communications
- Non-Orthogonal Multiple Access (NOMA)
- Fading Channel Modeling
- System performance evaluation

Publications

JOURNALS

- Shaika Mukhtar, Gh Rasool Begh “Performance Enhancement of NOMA system using IRS assisted OSTBC transmission”, Wireless Networks, Revised manuscript submitted.
- Shaika Mukhtar, Gh Rasool Begh “Error analysis of TAS—OSTBC assisted downlink NOMA system over Generalized $\eta - \mu$ fading Channel”, International Journal of Communication Systems, Volume 35, Issue 13, 2022
- Shaika Mukhtar, Gh Rasool Begh “Unified Performance Analysis of Near and Far User in Downlink NOMA System over $\eta - \mu$ Fading Channel”, Journal of Communications Software and Systems, Volume 17, Issue 4, Pages 305-313, 2021
- Shaika Mukhtar, Gh Rasool Begh “On the performance analysis of downlink NOMA system over non-homogenous fading channel”, 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON), pp- 1-6, 2021
- Shaika Mukhtar, Gh Rasool Begh “Performance analysis of Filtered OFDM based downlink and uplink NOMA System over Nakagami- m fading channel”, Journal of Telecommunications and Information Technology, National Institute of Telecommunications, Poland, pp- 1-6, 2021
- Shaika Mukhtar “Exploiting MIMO Technology in Wireless Communication”, International Journal of Engineering Development and Research (IJEDR), Volume 4, Issue 1, 2016
- Shaika Mukhtar, Hitender Gupta, Mehboob ul Amin, “Performance Evaluation of MIMO based Spectrum Sensing in Cognitive Radio”, IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), Vol. 10, Issue 3, pp 28-37, May-June, 2015.

BOOK CHAPTER

- Shaika Mukhtar, Umer Ashraf, Gh Rasool Begh, “Role of Intelligent Reflecting Surfaces in the Emerging 6G Technologies”, 6G Wireless: The Communication Paradigm Beyond 2030, CRC Press, pp. 39-58, 2023
- Shaika Mukhtar, “MIMO Based Spectrum Sensing in Cognitive Radio Systems”, Lambert Academic Publishing, 2017

Professional Development

CONFERENCES

- 2019 **Participated in TENCON**, India
2021 **Participated in GUCON**, India

SHORT TERM COURSES & WORKSHOPS

- Faculty Development Programme on “Machine Learning for IoT Engineers: From Devices to Data” organized by Netaji Subhas University of Technology, January 5-9, 2026.
- Short Course on “Statistical Modelling and Analysis of Advanced Wireless Communication Systems”, organized by IIT Indore, March 17- 23, 2022
- TEQIP-III Sponsored Short Course on “Communication System Design”, organized by Department of Electronics and Communication Engineering, NIT Srinagar, July 1-5, 2019
- Short Course on “Massive MIMO and Millimeter Wave (mmWave) MIMO technologies for 5G Networks”, organized by IIT Kanpur, January 3-6, 2019
- One week workshop on “Introduction and Basics of Programming Skills using MATLAB and PYTHON” organized at NIT Srinagar, May 27-31, 2019

Two day workshop on “Scientific and technical Documentation using LaTeX” held at NIT Srinagar, June 8-9, 2019

International workshop on “Cyber Communication” organized by the Department of Electronics and Communication Engineering, Islamic University of Science & Technology (IUST), Awantipora, on 8th May, 2017

Two-week Workshop on Electric Power System conducted by IIT Kharagpur from 12th June to 15th July 2017

Workshop on Innovation Frontiers-I, 28th April, 2016 organized by Design and Innovation Centre (DIC), Islamic University of Science & Technology (IUST), Awantipora