

DR. AMAN SIKRI

Email ID: amansikri@iitism.ac.in

EDUCATION

Indian Institute of Technology (BHU), Varanasi, India Ph.D. (Wireless Communications and Signal Processing)	July 2015- December 2019 Overall CGPA: 9/10
Indian Institute of Technology (BHU), Varanasi, India M.Tech. (Communication Systems Engineering)	July 2010- May 2012 Overall CGPA: 8.93/10
Guru Nanak Dev University, Amritsar, India B.Tech. (Electronics and Communications Engineering)	July 2005- May 2009 Overall Percentage: 75 %
Higher Secondary Certificate (HSC)	May 2004-2005 Overall Percentage: 80%
Secondary School Certificate (SSC)	May 2002-2003 Overall Percentage: 84%

EXPERIENCE

Assistant Professor at IIT-Dhanbad, India (Level -12)	March 20, 2024- Till date
Assistant Professor at IIT-Dhanbad, India (Level -11)	Sept. 19, 2023- March 19, 2024
Postdoctoral Fellow at ETS, Montreal, Canada	November 2022- August 2023
National Postdoctoral Fellow at IIT Jodhpur, India	February 2022- October 2022
Research Associate at IIT Delhi, India	February 2020- December 2021
Assistant Professor at NIT, Jalandhar, India	August 2012- December 2013

SKILLS

Software and Tools	MATLAB, LaTeX, Mathematica
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INTERNATIONAL JOURNAL PUBLICATIONS

1. **Aman Sikri**, S. Mukhopadhyay, B.Selim, and G. Kaddoum, "Accurate Statistical Characterization For Cooperative Multi RIS-Aided Wireless System," *IEEE Communications Letters*, doi: 10.1109/LCOMM.2026.3677601.
2. **Aman Sikri**, B. Selim, and G. Kaddoum, "Energy Harvesting Aided PASTAR-RIS-Empowered NOMA System in the Presence of Impulsive Noise," *IEEE Transactions on Vehicular Technology*, doi: 10.1109/TVT.2025.3638656.
3. **Aman Sikri**, B. Selim, G. Kaddoum, M. Au and B. L. Agba, "RIS-Aided Wireless Sensor Network in the Presence of Impulsive Noise and Interferers for Smart-Grid Communications," *IEEE Communications Letters*, doi: 10.1109/LCOMM.2023.3299510.

4. **Aman Sikri**, A. Mathur and G. Kaddoum, "Joint impact of phase error, transceiver hardware impairments, and mobile interferers on RIS-Aided wireless system over κ - μ fading channels," *IEEE Communications Letters*, vol. 26, no. 10, pp. 2312-2316, Oct. 2022
5. **Aman Sikri**, A. Mathur, and G. Kaddoum, "Signal space diversity-based distributed RIS-aided dual-hop mixed RF-FSO systems," *IEEE Communications Letters*, vol. 26, no. 5, pp. 1066-1070, May 2022.
6. **Aman Sikri**, A. Mathur, P. Saxena, M. R. Bhatnagar, and G. Kaddoum, "Reconfigurable intelligent surface for mixed FSO-RF systems with co-channel interference," *IEEE Communications Letters*, vol. 25, no. 5, pp. 1605-1609, May 2021.
7. **Aman Sikri**, A. Mathur, P. Saxena, M. R. Bhatnagar, and G. Kaddoum, "Artificial noise injection-based secrecy improvement for FSO systems," *IEEE Photonics Journal*, vol. 13, no. 2, pp. 1-12, Apr. 2021.
8. **Aman Sikri**, Aashish mathur, and K. V. Srinivas, "Performance Analysis of cooperative powerline communication with signal space diversity," *Transactions on Emerging Telecommunications Technologies* 2020; 31:e3845.
9. **Aman Sikri**, A. Mathur, and K. V. Srinivas, "Performance analysis of coordinate interleaved PLC system with Rayleigh channel gain under Nakagami- m additive noise," *IET Communications*, vol. 13, no. 7, pp. 857-862, Apr. 2019.
10. **Aman Sikri** and K. V. Srinivas, "Performance analysis of signal space diversity based cooperative relaying over α - κ - μ fading channels," *Transactions on Emerging Telecommunications Technologies* 2019; 30:e3717.

INTERNATIONAL CONFERENCE PUBLICATIONS

1. **Aman Sikri**, G. Kaddoum, B. Selim, Basile L. Agba, and Minh Au, "RIS-aided wireless sensor network in presence of bursty impulsive noise for smart-grid communications," *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Toronto, Canada, 2023, pp. 1-5.
2. **Aman Sikri** and A. Mathur, "Secrecy performance of RIS-aided wireless systems in the presence of mobile interferers and eavesdropper mobility," *2022 IEEE 96th Vehicular Technology Conference (VTC2022-Fall)*, London, United Kingdom, 2022, pp. 1-5.
3. **Aman Sikri**, A. Mathur and G. Kaddoum, "Performance of RIS-aided wireless systems in the presence of mobile interferers," *2022 IEEE 33rd Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, Kyoto, Japan, 2022, pp. 427-431.
4. **Aman Sikri**, A. Mathur, G. D. Verma, and G. Kaddoum, "Distributed RIS-based dual-hop mixed FSO-RF systems with RIS-aided jammer". *2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall)*, 2021, pp. 1-5.
5. **Aman Sikri**, A. Mathur, and G. D. Verma, "Secrecy performance enhancement of artificial noise injection scheme-based FSO systems". *2021 IEEE 94th Vehicular Technology Conference (VTC2021-Fall)*, 2021, pp. 01-05.
6. **Aman Sikri** and K. V. Srinivas, "Two-stage linear precoding for generalized frequency division multiplexing for improved performance," *2018 21st International Symposium on Wireless Personal Multimedia Communications (WPMC)*, 2018, pp. 507-511.
7. **Aman Sikri** and K. V. Srinivas, "Precoding for generalized frequency division multiplexing with linear receivers," *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, 2017, pp. 1-5.

EXTERNALLY FUNDED PROJECTS

1. Project No. ANRF/PAIR/2025/000027/PAIR
Title: Development of Innovative and Cutting-Edge Indigenous Technologies for Critical Minerals Exploration and Smart/Sustainable Mining.
Amount: Rs. 2,30,00000/-
Year: 2025
Funding Agency: ANRF
Role: Co-PI

TECHNICAL TALKS DELIVERED

- Keynote speaker on, “ The Role of AI and modern Technology in Research, Learning, and Professional Development” at VIT-AP on June 3, 2025.
- Technical Talk on, “ Reconfigurable Intelligent Surfaces for 6G Communications” at DYP DPU on July 26, 2025.

SUBJECTS TAUGHT

- Machine Learning
- Wireless Communications
- Digital Communications
- Probability Theory
- Detection and Estimation