


BIODATA

1. Personal Information		
(i)	Name	Dr. Gireesh G. Soni
(ii)	Qualification	M.Tech., Ph.D.
(iii)	Designation	Associate Professor
(iv)	Email-id	gireeshsoni@gmail.com
(vi)	Department	Electronics & Instrumentation Engineering. (Prev. at Dept. of Applied Physics & Optoelectronics)
(vii)	Experience	17 years



2. Educational Qualification				
S. No.	Degree	Specialization	Year	University/Board
1	Ph.D	Electronics Engg.	2021	NIT, Surat
2	M.Tech	Optoelectronics	2006	SGSITS, Indore/ RGPV, Bhopal
3	M.Sc.	Electronics	2002	UTD, Barkatullah Univ., Bhopal
4	NET	Electronics Science	2013	UGC

3. Research Interests
Free space optics, Optical Communication

(I) International/National Journals:	
1	Experimental study of rain affected optical wireless link to investigate regression parameters for tropical Indian monsoon, Optical and Quantum Electronics 55 (4), 384, 2023. IF: 3.0
2	Comparative analysis of FSO links with various modulation formats under controlled turbulence, Optoelectronics and Adv.Materials - Rapid Comm., 17, 9-10, September-October 2023, pp.442-445 (2023). IF: 0.63
3	Optically assisted mm-wave-based multi-Gbps RoFSO transmission link under channel fading models, Journal of Modern Optics, Taylor & Francis, 69 (8), 419-426, 2022. IF:1.3
4	Effect of wind pressure and modulation schemes on rain interrupted optical wireless links under tropical climates, Optical and Quantum Electronics 51 (6), 172, 2019. IF: 3.0
5	Compensating rain induced impairments in terrestrial FSO links using aperture averaging and receiver diversity, Optical and Quantum Electronics, 51 (7), 244, 2019. IF: 3.0

6	Feasibility Analysis of Optical Wireless Communication for Indian Tropical and Subtropical Climates, Journal of Optical Communications, 2019 (Ahead of Print), ISSN 0173-4911, IF:0.71
7	Experimental investigation of wind and temperature induced scintillation effect on optical wireless communication link Optik: Int. Journal of Light and Electron Optics 178, 1248-1254, 2019, IF: 3.1
8	An Optical Architecture of 12× 2.5 Gbps Wavelength-Interleaving Free Space Hybrid Distribution System Under Turbulent Atmosphere, Wireless Personal Communications 115 (3), 2615-2626, 2020, IF:2.2
9	Outage probability and average BER estimation of FSO system employing wavelength diversity, Optical and Quantum Electronics 51 (7), 229, 2019, IF:3.0
10	Performance analysis of Coherently detected orthogonal wavelength division multiplexing scheme Optik-International Journal for Light and Electron Optics 124 (17), 2758-2763, IF:3.1
11	Optical CDMA Networks using different detection techniques and Coding Schemes Int. Journal of Future Generation communication and Networking. (Scopus Indexed)
12	A novel design of photonic crystal fiber containing square holes in a square lattice with high dispersion tolerance, flattened dispersion and low effective mode area Optoelectronics and Advanced Materials-Rapid Communications 9, 3-4, April 2015, 319 - 323 IF: 0.63
13	An investigation of 16-QAM signal transmission over turbulent RoFSO link modeled by gamma-gamma distribution" <i>Journal of Optical Communications</i> , vol. , no. , 2020, pp.10151520200126. IF: 0.72

(II) International/National Conference Publications/Presentations

Performance evaluation of DSR, AODV and MP-OLSR Routing Protocols using NS-2 Simulator in MANETs	EAI IC4S 2023 - 4th EAI International Conference on Cognitive Computing and Cyber Physical Systems	August 4-6, 2023, Vishnu Institute of Technology, Bhimavaram,	Andhra Pradesh, India
Outage and SNR performance of Tropical optical Wireless Links using Receiver Diversity	3 rd INT. CONF. on Emerging Technology Trends in Electronics Comm. and Networking, (ET2ECN2020)	SVNIT, Surat 7-8 February 2020	SVNIT Surat
Experimental analysis of Rain induced attenuation for Free space optical links	Int. conf. on Advances in Optics & Photonics (ICAOP-2017)	GJU., Hisar, 2017.	OSI, India
Analysis of 6×10 Gbps Spectrally Efficient Optical AP-DCDM based Communication System	Int. conf, on Computer Communication and informatics (ICCCI-2014).	Sri Shakthi Inst. of Engg. Chennai	IEEE, Madras Section
Comparison of Modulation formats for Free Space Optics with SelC diversity.	Int. conf. on Microwave and Photonics (ICMAP) 2013	ISM Dhanbad	IEEE Phot. Society

DWDM Photonic Architecture for Wired and Wireless Services	Int. conf. on Optical Engineering, 2012.	Belgaum, India	IEEE
Design of 3*60 Gbps DCDM based WDM System	Int. conf. on Optical Engineering 2012.	Belgaum, India	IEEE
Finite Difference Analysis of index guiding micro-structured optical fiber.	ICOP-2009, Int.Conf. on Optics and Photonics	CSIO, Chandigarh	CSIO
Optical crosstalk in 8-PSK radio over fiber networks	Photonics-2008, Int. Conf. on Fiberoptics and Photonics	IIT, Dehli	OSA
Experimental Demonstration of Optical Analog-to-Digital Conversion	Photonics-2006, Int. Conf. on Fiberoptics and Photonics	Univ. of Hyderabad	OSA

5. Research Projects/Grants:			
	Title	Funding Agency	Cost
i.	Investigation of Performance Enhancement Schemes for Rain Interrupted Optical Wireless Links	AICTE/NPIU	18.92 lacs
ii.	Study of Growth & Spin dynamics of Orthoferrite RFeO ₃ (R-Rare earth) nanoparticles for spintronic applications	AICTE/NPIU	18.18 lacs

6. List of Conferences/Workshops/Seminars Organized
1. One week (7-Days) DST-STUTI Training program on <i>Advanced Approaches in Modelling and Simulation for Cutting-Edge Electronic Systems</i> (Role: Convener)
2. Two days workshop on Lasers and Optical Communication (LFOC), 2018. (Role-Coordinator)
3. Two days online workshop on Renaissance of Social Awareness, July 2020. (Role-Co-coordinator)
4. World Telecommunication Day 2023 under the aegis of Institution of Engineers (ILC), INDIA. (Role: Convener)
5. World Telecommunication Day 2022 under the aegis of Institution of Engineers (ILC), INDIA. (Role: Convener)
6. World Telecommunication Day 2021 under the aegis of Institution of Engineers (ILC), INDIA. (Role: Convener)

Invited Lectures/Expert Talks/Chairmanships at Conferences

- i. Session Judge at *National Conference on Physics and Chemistry of Materials (NCPCM2023)*.
- ii. Delivered an invited talk in the AICTE one week ATAL-FDP organised by NIT-Surat (2022).
- iii. Session chair at Int. E- conf. on *Synthesis, Characterization and Application of Emerging Materials* organized by JEC, Jabalpur.
- iv. Session chair at Int. conf. on *Material Science, Mechanics and Technology* organized by SD Bansal College, Indore.
- v. Session Judge at *National Conference on Physics and Chemistry of Materials (NCPCM2020)*
- vi. TPC member in ICMMT-2022 (SD Bansal, Indore), IC4S-2022 (Hyderabad) and ET2CTN-2022(SVNIT Surat).
- vii. TPC member in EAI International Conference (IC4S-2023)

7. Membership of Professional Societies

Institution of Engineers (IEI)
IEEE-Sensors
EAI,
Ind. Association of Physics teachers (IAPT)

8. Awards and Honours

- i. Best reviewer award from Elsevier: Optik: International journal of Light and Electron optics.
- ii. Best paper presentation award at ISTAMCE-2021, AMITY University.
- iii. Best paper presentation award at National Conference on Physics and Chemistry of Materials (NCPCM-2020).
- iv. Topper in the national level NPTEL certification exam in "Optical Wireless comm. for IoT & 5G" course

Professional memberships:

1. Institution of Engineers, India (IEI);
2. Indian Association of Physics Teachers (IAPT);
3. IEEE Sensors;
4. EAI

Reviewers role (Journals only)

1. Optik: International Journal of Light & Electron Optics, Elsevier
2. Fiber & Integrated Optics, Taylor & Francis
3. IEEE Sensors
4. Optical & Quantum Electronics, Springer
5. Journal of Optoelectronics & Advanced Materials
6. Journal of Optical Communication
7. Optics Communication, Elsevier
8. Wireless Personal Networks, Springer
9. Optical Materials, Elsevier

Additional charge:

1. Deputy Exam Controller, SGSITS, Indore.
2. UG Co-Coordinator, SGSITS
3. Member of Academic Council and Board of Studies
4. Member of the institute sports committee.
5. Departmental Coordinator of Institute website management.
6. DPC member of Elex. & Instr. Engg. & Institute Sports Committee
7. Dept. T & P coordinator till Aug 2021.