

# Dr. Saptarshi Gupta

Associate Professor  
Department of ECE,  
SRM Institute of Science and Technology,  
Delhi NCR Campus, Ghaziabad, U.P. India.

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## Educational Qualification

Degree	Specialization	University	Year of Passing
Ph.D	ECE - Antenna Design	Noida International University, India	2020
M.Tech	Digital Communication and Networking	SRM University, KTR Campus, Chennai	2010
B.Tech	ECE	West Bengal University of Technology, India	2008

## Journal Publications:

J13. Selvabharathi Devadoss, Palanisamy Ramasamy, Amit, Aditya Agarwal, **Saptarshi Gupta**, “ Design of 15 level reduced switches inverter topology using MSPWM”, TELKOMNIKA Telecommunication Computing Electronics and Control, Vol. 21, No. 1, pp. 214~222, February 2023, ISSN: 1693-6930, DOI: 10.12928/TELKOMNIKA.v21i1.24263 **SCOPUS (SNIP-0.579)**

<http://telkomnika.uad.ac.id/index.php/TELKOMNIKA/article/view/24263/11575>

J12. Pharindra Sharma, **Saptarshi Gupta**, Aditya Agarwal, Neeraj Sahu, Vinothkumar M, Manoj Kumar Vishnoi, Amit, Anurag Singh, “Eminent Method of Voice Identification by Applying Pitch, Intensity and Pulse”, *American Institute of Physics Conference Proceedings*, Vol.2393, No. 1, pp. 020079-1-020079-6, 19 May 2022, ISSN:0094-243X-E-ISSN:1551-7616, doi: 10.1063/5.0074174. (**SCOPUS SNIP- 0.314**)

<https://aip.scitation.org/doi/10.1063/5.0074174>

J11. AlQaheri H., Sarkar M., **Gupta S.**, Gaur B. (2022). Intelligent Cloud IoMT Health Monitoring-Based System for COVID-19. *CMC-Computers, Materials & Continua*, ISSN:1546-2218, E-ISSN:1546-2226, 72(1), 497–517, 24 February 2022. (**SCI IF- 3.772, SCOPUS SNIP- 3.089**)

<https://www.techscience.com/cmc/v72n1/46844>

J10. Anand Pandey, Pankaj Singh, Prashant Mani, **Saptarshi Gupta**, Jay Prakash Narayan Verma, “Message Ferry Route Calculation through K-means Clustering Algorithm for Partially-Connected MANET”, *Webology*, ISSN: 1735-188X, Volume 17, Number 2, pp.15-30, 01 December 2020. (**SCOPUS SNIP- 0.945**)

<https://www.webology.org/data-cms/articles/20201217045341pmWEB17013.pdf>

J9. Sarkar M, Singh A, **Gupta S**, Hassanien AE. Smart antenna design for high-speed moving vehicles with minimum return loss, *International Journal of Communication System (Wiley)*, ISSN: 1099-1131, Vol.33, No. 11, pp. 1-22, 14 April 2020; (**SCI IF- 2.047, SCOPUS SNIP- 0.781**)

<https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.4414>

J8. **Saptarshi Gupta** and R L Sharma, Circular split ring resonator loaded circular patch Microstrip antenna for 5.2 GHz ISM band, International Journal of Intelligent Engineering and Systems (IJIES), Japan, ISSN: 2185-3118, Vol.11, No.5: pp.246-253, 2018. (SCOPUS SNIP- 0.552)  
<http://www.inass.org/2018/2018103123.pdf>

J7. M.Vinothkumar, Abhishek Chauhan and **Saptarshi Gupta**, Review of Planar Slow Wave Structures for Travelling Wave Tube, International Journal of Pure and Applied Mathematics, ISSN: 1311-8080,1314-3395, Vol. 119, Special, pp. 273-277, 27-03-2018. (SCOPUS SNIP-0.756)  
<https://www.acadpubl.eu/jsi/2018-119-10/articles/10c/38.pdf>

J6. **Saptarshi Gupta** and R L Sharma, Design, performance analysis and comparison of nearly square, nearly square corner trimmed and nearly square corner trimmed with slot antenna for 5.2 GHz wireless applications. VSRD International Journal of Technical & Non Technical Research, e-ISSN: 0976-7967, p-ISSN: 2319-2216, Vol. 8, No. 8: pp. 209-214, 2017 (UGC Approved)  
[http://www.vsrjournals.com/pdf/VSRDIJTNTNTR/2017\\_8\\_August/1\\_Saptarshi\\_Gupta\\_VSRDIJTNTNTR\\_13326\\_Research\\_Paper\\_8\\_8\\_August\\_2017.pdf](http://www.vsrjournals.com/pdf/VSRDIJTNTNTR/2017_8_August/1_Saptarshi_Gupta_VSRDIJTNTNTR_13326_Research_Paper_8_8_August_2017.pdf)

J5. Tamunotonye Charles Makinson and **Saptarshi Gupta**, “Design and construction of a Tidal to electrical energy converter (with MatLab simulink),” International journal of engineering research & management technology ISSN: 2348-4039, 2014.  
<https://ijermt.org/publication/1/14%20Saptrishi%2014.pdf>

J4. **Saptarshi Gupta** and P Bose, “Renewable energy: Survey,” International journal of engineering sciences & research technology (IJSERT), ISSN: 2277-9655, Volume 2 Issue 4, April 2013.  
[http://www.ijesrt.com/issues%20pdf%20file/Archives%202013/april\\_2013/25.pdf](http://www.ijesrt.com/issues%20pdf%20file/Archives%202013/april_2013/25.pdf)

J3. **Saptarshi Gupta**, “Comparative Path Loss Analysis Of Okumura And COST 231 Models For Wireless Mobile Communication Using MATLAB Simulation,” International Journal of Engineering Research & Technology (IJERT),ISSN: 2278-0181, Vol. 2 Issue 3, March – 2013.  
<https://www.ijert.org/research/comparative-path-loss-analysis-of-okumura-and-cost-231-models-for-wireless-mobile-communication-using-matlab-simulation-IJERTV2IS3033.pdf>

J2. **Saptarshi Gupta**, Dr Rajan John, Tannia Rubavathy, “Performance analysis of hybrid (M/M/1 and M/M/m) client server model using Queuing theory,” International Journal of Electronics and Computer Science Engineering (IJECS), ISSN NO-2277-1956, Volume 2, Number 1, (December 2012-February 2013), pp. 241-250.  
<https://core.ac.uk/download/pdf/25730797.pdf>

J1. **Saptarshi Gupta** and Harish Kalla, “Performance analysis of Client-Server model using queuing theory,” International journal of Engineering Science (Nigeria), Volume 3, Number 1, July 2011 pp.26-35.  
<https://drive.google.com/file/d/1tOblZcIW0B7jL6V7vjFa-VDZou6sIMu/view?usp=sharing>

#### **Papers Presented (Conference/Seminar):**

C17. Shipra Srivastava, Vibhav Kumar Sachan, **Saptarshi Gupta**, Satya Sai Srikant, “Design of diagonally slotted microstrip antenna for Wireless applications”, Proceedings of ISETE International Conference (16 Oct 2022), New Delhi, India, ISBN: 978-93-90150-31-1.

[https://www.digitalxplore.org/up\\_proc/pdf/1797-167186894334-36.pdf](https://www.digitalxplore.org/up_proc/pdf/1797-167186894334-36.pdf)

C16. Shipra Srivastava, Vibhav Kumar Sachan, **Saptarshi Gupta**, Satya Sai Srikant, “Circularly Polarized Microstrip Rectangular Antenna for Wireless Communication Applications at C Band”, Proceedings of IRF International Conference, New Delhi, India, ISBN: 978-93-90150-31-1

[https://www.digitalxplore.org/up\\_proc/pdf/1969-168273896732-35.pdf](https://www.digitalxplore.org/up_proc/pdf/1969-168273896732-35.pdf)

C15. Chauhan, P., Gupta, S., "Challenges and Future Perspectives of Low-Power VLSI Circuits: A Study", Modern Electronics Devices and Communication Systems. Lecture Notes in Electrical Engineering, vol 948. Springer, Singapore, Feb 2023 (SCOPUS).

[https://link.springer.com/chapter/10.1007/978-981-19-6383-4\\_46#citeas](https://link.springer.com/chapter/10.1007/978-981-19-6383-4_46#citeas)

C14. Gupta, S., **Gupta, S.**, Katiyar, S., "Analysis of Antennas for IoT Environment", Proceedings of Second International Conference on Computational Electronics for Wireless Communications. Lecture Notes in Networks and Systems, vol 554. Springer, Singapore, doi.org/10.1007/978-981-19-6661-3\_4, 28 January 2023 (SCOPUS).

[https://link.springer.com/chapter/10.1007/978-981-19-6661-3\\_4](https://link.springer.com/chapter/10.1007/978-981-19-6661-3_4)

C13. P. Paramjeet, **S. Gupta**, V. Jain and H. M. Gaur, "Cost Optimized Design of Full Adder in QCA Technology," 2022 3rd International Conference on Computing, Analytics and Networks (ICAN), Rajpura, Punjab, India, pp. 1-6, doi: 10.1109/ICAN56228.2022.10007199, Date Added to IEEE Xplore: 13 January 2022 (SCOPUS).

<https://ieeexplore.ieee.org/document/10007199>

C12. **Saptarshi Gupta**, Neeta Awasthy and R. L. Sharma, Design and Performance Analysis of Circular Microstrip Patch Array (2×2) for S-Band Wireless Applications, *Micro-Electronics and Telecommunication Engineering*, Lecture Notes in Networks and Systems 106, [https://doi.org/10.1007/978-981-15-2329-8\\_53](https://doi.org/10.1007/978-981-15-2329-8_53), pp. 521-529, First Online: 03 April 2020 (SCOPUS)

[https://link.springer.com/chapter/10.1007/978-981-15-2329-8\\_53](https://link.springer.com/chapter/10.1007/978-981-15-2329-8_53)

C11. Ankit Kumar Chaubey, **Saptarshi Gupta**, Arun Kumar, Parasitic multilayer micro strip patch antenna for 4.40 GHz C-band application, 2018 2nd International Conference on Micro-Electronics and Telecommunication Engineering, pp. 271-276, 20-21 Sept. 2018, Date Added to IEEE Xplore: 24 June 2019 (SCOPUS)

<https://ieeexplore.ieee.org/document/8742811>

C10. **Saptarshi Gupta**, Survey on Metamaterial and its application, Seminar presentation on 26-28 April 2019, Organized by Ministry of HRG, Government of India.

[https://drive.google.com/file/d/1N05hL-W2e7QYwpbO\\_wRwWKeBjucVeMof/view?usp=sharing](https://drive.google.com/file/d/1N05hL-W2e7QYwpbO_wRwWKeBjucVeMof/view?usp=sharing)

C9. **Saptarshi Gupta** and R L Sharma, 2018, Design and performance analysis of conformal antenna for C band wireless applications, IEEE ICMETE 2018, pp. 176-180, 20-21 Sept. 2018 (SCOPUS)

<https://ieeexplore.ieee.org/abstract/document/8742813>

C8. Anurag Verma, Arun Kumar, **Saptarshi Gupta**, Design & performance analysis of round micro-strip Patch antennae 2×4 array for 2.40 Ghz wireless Demands, MARC-2018 Applications of Computing, Automation and Wireless Systems in Electrical Engineering, Springer Lecture Notes in Electrical Engineering (LNEE series), pp- 759-771, First Online: 01 June 2019 (SCOPUS)

[https://link.springer.com/chapter/10.1007/978-981-13-6772-4\\_65](https://link.springer.com/chapter/10.1007/978-981-13-6772-4_65)

C7. **Saptarshi Gupta** and R L Sharma, A Review paper on analysis method of Microstrip Patch Antenna, National Conference on Communication & Networking (NCCN-2016) November 8th & 9th 2016, Noida International University, Gautam Budh Nagar, Uttar Pradesh, India, 2016.

<https://drive.google.com/file/d/1wEBSett6lpQHjm6F8ufBS4XRnYLwguRJ/view?usp=sharing>

C6. **Saptarshi Gupta** and R.L. Sharma, Review on Microstrip Patch Antenna and Applications, International conference on "Make in India: Where are we now & where to go (ICMII 2016, 18-19 February)" held at Noida International University, Gautam Budh Nagar, Uttar Pradesh, India.

[http://www.vsrjournals.com/docs/VSRDIJTNR\\_February\\_2016\\_Special\\_Issue.pdf](http://www.vsrjournals.com/docs/VSRDIJTNR_February_2016_Special_Issue.pdf)

C5. Dr Mangla Yadav, **Saptarshi Gupta**, “Effective teaching Strategies” Proceedings of the National seminar on “Innovative practices in Teachers education” at Ginni Devi Modi Institute of Education, 25<sup>th</sup> January 2014.

<https://drive.google.com/file/d/1tcBmbw1KCPCvrWeCSsUbr0yBEe06y3ed/view?usp=sharing>

C4. Tamunotonye Charles Mackinson, **Saptarshi Gupta**, Anurag Singh, “Design and Construction of A Tidal To Electrical Energy Converter (with Matlab Simulink)” Proceedings of the 2<sup>nd</sup> National Conference on Recent Trends in Information and Communication Technology (NCRTICT-2013), ISBN: 978-93-83083-31-2, pp. 321-324, 27<sup>th</sup> September 2013.

[https://drive.google.com/file/d/1SAwHqMne6dONmKzxs\\_Nm6JpuQ9ybIwCf/view?usp=sharing](https://drive.google.com/file/d/1SAwHqMne6dONmKzxs_Nm6JpuQ9ybIwCf/view?usp=sharing)

C3. S.Y. Nusenu, **Saptarshi Gupta**, Diganta Das and Sayak Gupta, “Picture Quality Improvement through Morphological Transformation,” Proceedings of the 5<sup>th</sup> Ghana Biomedical Convention, pp.65, 30<sup>th</sup> July-1<sup>st</sup> August, 2012, University of Ghana, Legon, Accra, Ghana, West Africa.

<https://cobreg.org/wp-content/uploads/2012/08/GBC-2012-1.pdf>

C2. **Saptarshi Gupta**, Harish Kalla and Sayak Gupta, “Bringing Biosensor and RedTacton Together – A PROPOSAL,” *Proceedings of the 4<sup>th</sup> Ghana Biomedical Convention*, pp.47, 27<sup>th</sup> -29<sup>th</sup> July, 2011, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, West Africa.

[https://cobreg.org/wp-content/uploads/2012/02/2011\\_Conference\\_proceedings-1.pdf](https://cobreg.org/wp-content/uploads/2012/02/2011_Conference_proceedings-1.pdf)

C1. **Saptarshi Gupta** and Harish Kalla, “Performance analysis of Client-Server model using queuing theory,” *Proceedings of the 4<sup>th</sup> International Conference on Research and Development*, Volume 4, Number 11, pp. 44-53, May 31-june 3, 2011, Université de Lome, Republic of Togo.

<https://drive.google.com/file/d/1eDm8fBwkIDGpzfNDWiOL6sq2lciQIPdj/view?usp=sharing>

#### **Book Chapters:**

B7. Paramjeet, **Saptarshi Gupta** and Hari Mohan Gaur, “Quantum-Dot Cellular Automata circuits for Nanocomputing Applications”, *Investigations on Designing of Adders, Multiplexers and Flip-Flops for Fast Memories Development in QCA Technology*, CRC Press (**Accepted**).

B6. Manash Sarkar, Hameed Al Qaheri, Diksha Jaiswal, Atul Kumar, Tanisha Mukherjee, Vinay Shree Pandey, **Saptarshi Gupta**, “An Intelligent Health Diagnosis System based on a Secure Data Transfer through Li-Fi Technology”, *Intelligent Systems Reference Library, New Trends and Applications in Internet of Things (IoT) and Big Data Analytics* (Springer), Vol 221, pp. 149-171, Print ISBN978-3-030-99328-3, Online ISBN978-3-030-99329-0, First Online: 17 May 2022 (**SCOPUS**)

[https://link.springer.com/chapter/10.1007/978-3-030-99329-0\\_11](https://link.springer.com/chapter/10.1007/978-3-030-99329-0_11)

B5. **Saptarshi Gupta**, Manash Sarkar, Harpreet Kaur, Maroi Agrebi, Arup Roy, “An Efficient Data Transferring through Li-Fi Technology: a Smart Home Appliance”, *Studies in Big Data - Multimedia Technologies in the Internet of Things Environment* (Springer), Vol 108, pp. 59-78, Print ISBN978-981-19-0923-8, Online ISBN978-981-19-0924-5, First Online: 05 April 2022 (**SCOPUS**).

[https://link.springer.com/chapter/10.1007/978-981-19-0924-5\\_4](https://link.springer.com/chapter/10.1007/978-981-19-0924-5_4)

B4. Manash Sarkar, Arup Roy, Youakim Badr, Bhavya Gaur, **Saptarshi Gupta**, “An Intelligent Music Recommendation Framework for Multimedia Big Data: a Journey of Entertainment Industry”, *Studies in Big Data-Multimedia Technologies in the Internet of Things Environment* (Springer), Vol 2, pp. 39-67, Print ISBN 978-981-16-3827-5, Online ISBN 978-981-16-3828-2, First Online: 30 July 2021 (**SCOPUS**).

[https://link.springer.com/chapter/10.1007/978-981-16-3828-2\\_3](https://link.springer.com/chapter/10.1007/978-981-16-3828-2_3)

B3. Satya Sai Srikant, **Saptarshi Gupta**, and Atul Kumar Pandey, “Prospects of MMIC Antennas”, Advances in Antenna, Signal Processing, and Microelectronics Engineering, Apple Academic Press, Advances in Antenna, Signal Processing, and Microelectronics Engineering (1<sup>st</sup> edition), eBook ISBN9781003006190, September 2021, USA.

<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003006190-5/prospects-mmic-antennas-satya-sai-srikant-saptarshi-gupta-atul-kumar-pandey>

B2. Manash Sarkar, **Saptarshi Gupta**, Bhavya Gaur, Valentina E. Balas, “Visualization of COVID-19 Pandemic: an Analysis through Machine Intelligent Technique towards Big Data Paradigm”, Studies in Big Data-Multimedia Technologies in the Internet of Things Environment (Springer), Vol 79, pp. 117-136, Print ISBN978-981-15-7964-6, Online ISBN 978-981-15-7965-3, First Online: 29 September 2020.

[https://link.springer.com/chapter/10.1007/978-981-15-7965-3\\_8](https://link.springer.com/chapter/10.1007/978-981-15-7965-3_8)

B1. Manash Sarkar, **Saptarshi Gupta**, Satya Sai Srikant, Anurag Singh, Aditya Agarwal, “An Intelligent and Optimistic Diseases Diagnosis: An IoT Based Smart City Paradigm”, CRC Press Taylor & Francis Group, USA, Data Security in Internet of Things Based RFID and WSN Systems Applications (1<sup>st</sup> edition), 2020, eBook ISBN9780429294990.

<https://www.taylorfrancis.com/chapters/edit/10.1201/9780429294990-1/intelligent-optimistic-disease-diagnosis-sarkar-manash-saptarshi-gupta-satya-sai-srikant-anurag-singh-aditya-agarwal>

#### **FDP attended:**

- Attended a ‘*Professional Faculty Development*’ at All Nations University, Koforidua, Ghana, West Africa from Aug 12<sup>th</sup> – 17<sup>th</sup> 2010, conducted by Dr. George J Sefa Dei, University of Toronto, Canada.

#### **Online Course:**

- Completed Course on “Internet of Things” offered by Stanford University, USA on 2021.
- Completed Certificate Programme from Coursera (Institut Mines-Télécom, French) in Satellite Communications, 2018.
- Completed Certificate Programme from Coursera (Yonsei University, Seoul, South Korea) in Wireless Communications, 2017.
- Completed Certificate course on BIG DATA ANALYTICS: OPPORTUNITIES, CHALLENGES AND THE FUTURE from GRIFFITH UNIVERSITY, online platform Future Learn, 2020.
- Completed Certificate course on ENTREPRENEURSHIP: FROM BUSINESS IDEA TO ACTION from KING'S COLLEGE LONDON, online platform Future Learn, 2020.

#### **Patent: 01 (Australian patent)**

Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1 <a href="#">2021104519</a>	Automatic Electric Cooling Fan System; a device and thereof	B, Srinath DR; Chaurasia, Giraja Shankar DR; G, Shanthi DR; Gupta, Saptarshi DR; K S, Kavitha Kumari PROF; K, Vijayan DR; Mani, Prashant DR; S, Satish Kumar PROF; Srikant, Satya Sai DR; Vishnoi, Manoj Kumar PROF	Mani, Prashant; Srikant, Satya Sai; Chaurasia, Giraja Shankar; K. S., Kavitha Kumari; S., Satish Kumar; Gupta, Saptarshi; G., Shanthi; B., Srinath; Vishnoi, Manoj Kumar; K., Vijayan	2021-07-24	GRANTED

<https://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=saptarshi+gupta&resultsPerPage=>

**Journal Reviewer:**

- ❖ Computers and Electrical Engineering- Elsevier Journal
- ❖ International Journal of Communication Systems- Wiley
- ❖ Iranian Journal of Electrical and Electronic Engineering
- ❖ Frontiers in Psychology

**Awards and Achievements:**

- Received Certificate of appreciation in recognition of contribution to the growth of All Nations University for the year 2012 from Dr. Samuel H. Donkor President & Founder of All Nations University, Koforidua, Ghana, West Africa and ANIDA (ALL NATIONS INTERNATIONAL DEVELOPMENT AGENCY), Steeles Avenue, Toronto, Canada.
- Received Certificate of appreciation in recognition of work done as Placement coordinator on 24<sup>th</sup> Foundation Day (25/03//2021) of SRM IST.
- Received Best Teacher Award -2022 from SRM IST, NCR Campus.

**Work Experience:**

Sl No.	Name of the Organization	Position Held	Duration
1	All Nations University, Koforidua, Ghana, West Africa	Lecturer, Department of ECE	23/06/2010 – 02/06/2013
2	SRM Institute of Science and Technology, Ghaziabad, U.P., India	Assistant Professor, Department of ECE	24/07/2013 – 08/06/2023
3	SRM Institute of Science and Technology, Ghaziabad, U.P., India	Associate Professor, Department of ECE	09/06/2023 – Till Date

**Memberships:**

- Member, The Institution of Engineers (India), Member No: M-1695988
- Fellow, Institution of Electronics and Telecommunication Engineers (IETE), Member No: F501507
- Member of Indian Society for Technical Education (ISTE) (Membership No: LM - 137181)
- Member (No. 142223) of International Association of Engineers (IAENG).
- Member (No. 80348802) of International Association of Computer Science and Information Technology (IACSIT)