

Dr. AVISANKAR ROY

CONTACT INFORMATION

Parmanent Address

Dr. Avisankar Roy
D-2, 1st Floor
Azad Hind Fort Complex
Azad Hind Nagar, Haldia Township
Dist - Purba Medinipur, WB, 721607

E-mail: avisankar.roy@gmail.com
Voice: (+91) 9831024749/ 8001630503

PRESENT CITIZENSHIP

Indian

SUBJECT INTEREST

Microprocessor 8085, Circuit Theory, Antenna Theory,
Analog Communication, Digital Communication, Control System

RESEARCH INTEREST

Microstrip Patch Antenna Design for wireless communication

EDUCATION

Ph.D in Engineering

Awarded on December 19' 2018

Defense on December 4' 2018

Thesis Submitted on June 18' 2018

Registration on June 1' 2017

Enrollment on December 4' 2013.

University of Kalyani, Kalyani, Nadia, West Bengal, India

Thesis Title – *Design of Compact, Wideband Microstrip Antenna
with Multi Frequency Operation by Meandering
Techniques*.

Supervisor Name – Dr. Debasree Chanda Sarkar, Professor, DETS
University of Kalyani

Co-Supervisor – Dr. Sunandan Bhunia, Associate Professor, Dept. of ECE
Central Institute of Technology, Kokrajhar

M.Tech in Mobile Communication and Network Technology
(July'2007 – June'2009)

JIS College of Engineering, Kalyani, Nadia, WB

Under Maulana Abul Kalam Azad University of Technology
(Formerly known as West Bengal University of Technology)

DGPA: 8.91

B.Tech in Electronics & Communication Engineering
(July'2002 – June'2006)

JIS College of Engineering, Kalyani, Nadia, WB

Under Maulana Abul Kalam Azad University of Technology
(Formerly known as West Bengal University of Technology)

DGPA: 8.05

Higher Secondary (+2) Examination (2002)
 West Bengal Council of Higher Secondary Education
 Malda Zilla School, Malda, WB.
Aggregate: 70%

Secondary Examination (2000)
 West Bengal Board of Secondary Education
 Malda Zilla School, Malda, WB.
Aggregate: 77.25%

**AWARDS/
ACHIEVEMENTS**

Awarded **Bronze Medal** for getting the 3rd position in M.Tech in *Mobile Communication & Network Technology* in the batch of 2009 of *West Bengal University of Technology*, by the WBUT.

**CONFERENCES
ATTEND**

1. Three National Conferences/Seminars (Paper Presented)
2. Three International Conference (Paper Presented)

**WORKSHOP/ FDP
ATTEND**

16 program attended. (List Attached)

**COURSE
CERTIFICATION**

1. **NPTEL** Online certification on '**Antennas**', IIT Bombay, Scored 62%, (Duration – 12 Weeks)
2. **NPTEL** Online certification on '**Microwave Theory & Techniques**', IIT Bombay, Scored 61%, (Duration – 12 Weeks)

PUBLICATIONS

International Journal – 13 (including **SCI**, **SCOPUS** indexed)
 International Conference – 10 (including **IEEE Xplore**, **Springer**)
 National Conferences/Seminars – 6
 Book chapters – 5 (**SCOPUS** indexed)
 Books – 4

EDITED BOOK

Lecture Notes in Electrical Engineering, Published by Springer, Singapore
 ISBN 978-981-16-9153-9, Vol. 851, Jan 2022

**JOURNAL'S
REVIEWER**

1. AEUE – International Journal of Electronics and Communication ELSEVIER.
2. Physical Communication, ELSEVIER.
3. Journal of Pure and Applied Physics.
4. Transaction on Emerging Telecommunications Technologies

**CONFERENCE
ORGANIZED**

1. Organizing 2nd International Conference on Communication, Devices and Computing (ICCDC 2019), as **Joint Organizing Secretary**, held on 14-15 March 2019, at Haldia Institute of Technology, Haldia, WB, India.

2. Organizing 3rd International Conference on Communication, Devices and Computing (ICCDC 2021), as **Program Chair**, held on 16-18 August 2021, at Haldia Institute of Technology, Haldia, WB, India
3. Organizing 4th International Conference on Communication, Devices and Computing (ICCDC 2023), as **Program Chair**, held on 1-3 March 2023, at Haldia Institute of Technology, Haldia, WB, India

WEBINAR ORGANIZED

1. Organized National Webinar on “Recent Advancement of System Design Towards 5G Communication (RASDT5C 2021), as **Joint Coordinator**, held on 11-13 January 2021, at Haldia Institute of Technology, Haldia, WB, India

WORK EXPERIENCE

Total **16 years and 8 months** of teaching experiences.

1. 2 and ½ years full time and 2 years part time teaching experience in dept. of ECE in **IMPS College of Engg. & Technology, Malda**. (18th August’2006 – 4th January’2011)
2. 12 years 2 months Full time teaching experience as Assistance Professor and Associate Professor at ECE department in **Haldia Institute of Technology, Haldia**. (5th January’2011 – Till Now)

CURRENT STATUS

Serving as **Associate Professor** of ECE department in Haldia Institute of Technology, Haldia. (Since 5th January’2011), Present Basic Pay – Rs.50,720/-

PROFESSIONAL MEMBERSHIP

1. Member of *International Association of Engineers (IAENG)*. (ID-148436)
2. Editorial board member of *International Journal of Application or Innovation in Engineering & Management (IIAIEM)*. (ID-1081)
3. Senior Member of The Institute of Research Engineers and Doctors (theIRED). [No. SNM10100059835]

PERSONAL PROFILE

Date of Birth : 29th May’1984
 Gender : Male
 Father’s Name : Late Tapan Kumar Roy
 Languages Known : English, Bengali, Hindi.
 Interest : Painting.

DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

DATE : 06/03/2023

PLACE: Haldia

SIGNATURE
(DR. AVISANKAR ROY)

List of Journals

1. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, Santosh Kumar Chowdhury, “Compact multi frequency strip loaded microstrip patch antenna with spur lines”, *International Journal of Microwave and Wireless Technologies*, ISSN: 1759-0787 (Print), 1759-0795 (Online), Vol. 9, Issue 5, pp. 1111-1121, November 2016. **(SCIE Indexed)(IF – 0.976)**
2. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Slot Loaded Compact Microstrip Patch Antenna for Dual Band Operation”, *Progress In Electromagnetics Research C*, ISSN: 1937-8718, Vol. 73, pp. 145–156, April 2017. **(Scopus Indexed)(IF – 2.27)**
3. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Compact and Broadband Triangular Microstrip Patch Antenna Design Utilizing Shorting Pin”, *International Journal of Scientific Research in Multidisciplinary Studies*, ISSN: 2454-9312 (Online), 2454-6143 (Print), Vol. 3, Issue. 6, pp. 1-6, June 2017. **(IF – 1.021)**
4. Sunandan Bhunia, **Avisankar Roy**, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Effects of Two Identical Notches in the Same and Opposite Non Radiating Edges of a Rectangular Microstrip Patch Antenna”, *International Journal of Signal Processing, Image Processing and Pattern Recognition*, ISSN: 2005-4254, Vol. 11, No. 3, pp.15-28, 2018. **(Scopus Indexed)(IF – 0.1)**
5. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Compact Wideband Meandered Slotted Multi Frequency Microstrip Antenna”, *Wireless Personal Communication*, ISSN: 0929-6212, Vol. 115, No. 2, pp. 1769-1782, DOI: 10.1007/s11277-020-07653-z, July 2020. **(SCIE Indexed)(IF – 1.671)**
6. Mohammad Ahmad Salamin, Sudipta Das, B. T. P. Madhav, Soufian Lakrit, **Avisankar Roy**, Asmaa Zugari, “A Miniaturized Printed UWB Antenna with Dual Notching for X-Band and Aeronautical radio navigation applications”, *TELKOMNIKA Telecommunication Computing Electronics and Control*, ISSN: 1693-6930, DOI: 10.12928/TELKOMNIKA.v18i6.16119, Vol. 18, No. 6, pp. 2868-2877, December 2020. **(Scopus Indexed)(IF – 1.02)**
7. Surajit Mukherjee, **Avisankar Roy** and Sunandan Bhunia, “Design of Compact UWB Slotted Hexagonal Monopole Antenna with 3.5/5.5 GHz Dual Band Rejection,” *Journal of Nano- And Electronic Physics*, ISSN: 2077-6772, Vol. 13, no. 3, pp. 03026-1-03026–4, DOI: 10.21272/jnep.13(3).03026, June 2021. **(Scopus Indexed) (IF – 0.425)**
8. Tapas Tewary, Smarajit Maity, Surajit Mukherjee, **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, “Design of High Gain Broadband Microstrip Patch Antenna for UWB/X/Ku Band Applications”, *AEUE - International Journal of Electronics and Communications*, ISSN 1434-8411, Vol. 139, DOI: 10.1016/j.aeue.2021.153905, July 2021. **(SCIE Indexed) (IF – 3.86)**

9. Surajit Mukherjee, **Avisankar Roy**, Smarajit Maity, Tapas Tewary, Partha Pratim Sarkar, Sunandan Bhunia, "A Design of Dual Band-Notched UWB Hexagonal Printed Microstrip Antenna", *International Journal of Microwave and Wireless Technologies*, **ISSN: 1759-0787** (Print), 1759-0795 (Online), DOI: <https://doi.org/10.1017/S1759078722000447>, Vol. 15, issue 3, pp. 526-534, April 2022. **(SCIE Indexed)(IF – 1.09)**
10. Tapas Tewary, Smarajit Maity, Surajit Mukherjee, **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, "High gain miniaturized super-wideband microstrip patch antenna", *International Journal of Communication Systems (Wiley)*, ISSN No. 1099-1131, Vol. 35, issue 11, DOI: 10.1002/dac.5181, April 2022. **(SCIE Indexed)(IF – 1.882)**
11. Smarajit Maity, Tapas Tewary, Surajit Mukherjee, **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, "Wideband Hybrid Microstrip Patch Antenna and Gain Improvement using Frequency Selective Surfaces", *International Journal of Communication Systems (Wiley)*, ISSN No. 1099-1131, Vol. 35, issue 14, DOI: 10.1002/dac.5268, June 2022. **(SCIE Indexed) (IF – 2.29)**
12. Smarajit Maity, Tapas Tewary, Surajit Mukherjee, **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, "Super Wideband High Gain Hybrid Microstrip Patch Antenna", *AEUE - International Journal of Electronics and Communications*, ISSN 1434-8411, Vol. 153, DOI: <https://doi.org/10.1016/j.aeue.2022.154264>, August 2022. **(SCIE Indexed) (IF – 3.86)**
13. Tapas Tewary, Smarajit Maity, Surajit Mukherjee, **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, "FSS Embedded High Gain 'N' shaped Miniaturized Broadband Antenna", *AEUE - International Journal of Electronics and Communications*, ISSN 1434-8411, Vol. 158, DOI: <https://doi.org/10.1016/j.aeue.2022.154465>, January 2023. **(SCIE Indexed) (IF – 3.86)**
14. Smarajit Maity, Tapas Tewary, **Avisankar Roy**, Kaushik Mandal, Sunandan Bhunia, "HEART" Shaped Broadband Hybrid Patch Antenna", *International Journal of Microwave and Optical Technology*, ISSN: 1553-0396, Vol. 18, No. 3, May 2023. **(Scopus Indexed) (IF – 0.144)**
15. Tapas Tewary, Smarajit Maity, Arindam Mukherjee, **Avisankar Roy**, Sunandan Bhunia, "FSS Integrated High Gain Broadband Antenna", *Journal of Nano- And Electronic Physics*, ISSN: 2077-6772, DOI: 10.21272/jnep.15(3).03015, Vol. 15, No. 3, June 2023. **(Scopus Indexed) (IF – 0.425)**
16. Tapas Tewary, Smarajit Maity, **Avisankar Roy**, Sunandan Bhunia, "Wide Band Microstrip Patch Antenna with Enhanced Gain using FSS Structure", *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, ISSN: 2179-1074, DOI: <http://dx.doi.org/10.1590/217910742023v22i2273333>, Vol. 22, No. 2, pp. 329-345, June 2023. **(Scopus Indexed) (IF – 0.274)**
17. Surajit Mukherjee, **Avisankar Roy**, Smarajit Maity, Tapas Tewary, Koushik Dutta, Sunandan Bhunia, "Electromagnetic Band Gap Coupled Tri-Notched Miniaturized Ultra-Wideband Antenna Loaded with Slot and Parasitic Strip", *International Journal of Communication Systems (Wiley)*, ISSN No. 1099-1131, DOI: <https://doi.org/10.1002/dac.5565>, Vol. 36, issue 15, July 2023. **(SCIE Indexed) (IF – 1.882)**

18. Sunandan Bhunia, Neha Gupta, Nitu Kumari, Jyotirmoy Bhargav, **Avisankar Roy**, Tapas Tewary, Smarajit Maity, “Study and Analysis on Compactness of Patch Antenna Utilizing Ground Plane with U slot”, *Journal of Nano- And Electronic Physics*, ISSN: 2077-6772, DOI: [https://doi.org/10.21272/jnep.15\(4\).04021](https://doi.org/10.21272/jnep.15(4).04021), Vol. 15, No. 4, August 2023. **(Scopus Indexed) (IF – 0.425)**
19. Tapas Tewary, Smarajit Maity, **Avisankar Roy**, Kaushik Mandal, Surajit Kundu, Sunandan Bhunia, “Design and Analysis of FSS Embedded Broadband High Gain Miniaturized Antenna”, *International Journal of Communication Systems*, ISSN No. 1099-1131, Vol 37, Issue 8, DOI: 10.1002/dac.5754, Feb 2024. **(SCIE Indexed) (IF – 1.882)**
20. Surajit Mukherjee, **Avisankar Roy**, Arindum Mukherjee, Surajit Kundu, Partha Pratim Sarkar, Sunandan Bhunia, “Notch band characteristics improvement of a printed ultra-wideband antenna by embedding frequency Selective Surface”, *AEUE - International Journal of Electronics and Communications*, ISSN 1434-8411, Vol. 153, DOI: <https://doi.org/10.1016/j.aeue.2024.155276>, April 2024. **(SCIE Indexed) (IF – 3.86)**
21. Surajit Mukherjee, **Avisankar Roy**, Tapas Tewary, Kaushik Mandal, Partha Pratim Sarkar, Sunandan Bhunia, “Improvement in Notch Band Characteristics of a Hexagonal Super Wideband Antenna by Interfering Back Radiation Out of Phase with Front Radiation using FSS”, *International Journal of Communication Systems*, ISSN No. 1099-1131, Vol. 37, Issue 12, DOI: 10.1002/dac.5814, April 2024. **(SCIE Indexed) (IF – 1.882)**

List of Conference

1. **Avisankar Roy**, Santanu Das, “A Novel Compact Design of Dual-Frequency Microstrip Antenna”, *Proc. of International Conference on Electronic Systems (ICES-2011)*, Department of Electronics and Communication Engineering, National Institute of Technology, Rourkela-769008, Orissa, Jan 07-09, 2011, ISBN: 978-93-80697-50-5, pp. 228-230.
2. Abhishek Sarkhel, **Avisankar Roy** “A Novel Compact Design Of Multi Frequency Microstrip Patch Antenna with Finite Ground”, *Proc. of National Conference on Advanced Communication Systems and Design Techniques*, Department of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, November 5-6, 2011, pp 26-29.
3. **Avisankar Roy**, Partha Pratim Sarkar, Sunandan Bhunia, “Shorting Pin Loaded Compact and Broadband Triangular Microstrip Patch Antenna”, *Proc. of 2nd National Conference on Advanced Communication Systems and Design Techniques NCACD 2012*, 29 – 30th September, Department of ECE, Haldia Institute of Technology, Haldia, Purba Medinipur, West Bengal, pp 44-47.
4. Raj Kumar Maity, **Avisankar Roy**, Surajit Mukherjee, Tarun Kumar Barik, Sunandan Bhunia, “Effects of periodicity on dipole array FSS structure”, *Proc. of 2nd National Conference on Advanced Communication Systems and Design Techniques NCACD 2012*, 29 – 30th September, Department of ECE, Haldia Institute of Technology, Haldia, Purba Medinipur, West Bengal, pp 48-50.

5. **Avisankar Roy**, Praveen Kumar Choudhary, Saurabh Anand, Partha Pratim Sarkar, Sunandan Bhunia, "A Novel Approach on Miniaturization of Microstrip Patch Antenna with Loaded Strips", *Proc. of International Conference on Electronics Communication and Instrumentation (ICECI 2014)*, Organized by Heritage Institute of Technology, Kolkata, **IEEE Xplore**, Print ISBN: 978-1-4799-3982-4, Digital Object Identifier : 10.1109/ICECI.2014.6767358, January 2014.
6. **Avisankar Roy**, Avishek Das, Sunandan Bhunia, Kushal Roy, Dibyendu Chowdhury and Amit Bhattacharyya, "Compact Dual Band Circular Microstrip Patch Antenna for WiMAX/WLAN Application", *Proc. of National Seminar on Advanced Functional Materials, Technology and its Social Implications (NSAFMTSI – 2015)*, Dept. of Applied Sciences, Haldia Institute of Technology, ISBN: 978-93-5196-458-2, 30th-31st January 2015.
7. Avishek Das, **Avisankar Roy**, Kushal Roy, Amit Bhattacharyya, Dibyendu Chowdhury and Suman Paul, "Slotted Microstrip Band Pass Filter Design and Analysis for WiMAX Application", *Proc. of National Seminar on Advanced Functional Materials, Technology and its Social Implications (NSAFMTSI – 2015)*, Dept. of Applied Sciences, Haldia Institute of Technology, ISBN: 978-93-5196-458-2, 30th-31st January 2015.
8. Amit Bhattacharyya, Avishek Das, **Avisankar Roy**, Suman Paul and Dipak Samanta, "Differential Voltage Current Conveyor Based Squar/Triangular Wave Generator", *Proc. of National Seminar on Advanced Functional Materials, Technology and its Social Implications (NSAFMTSI – 2015)*, Dept. of Applied Sciences, Haldia Institute of Technology, ISBN: 978-93-5196-458-2, 30th-31st January 2015.
9. Avishek Das, **Avisankar Roy**, Kushal Roy, Amit Bhattacharyya, Dibyendu Chowdhury, Suman Paul "Design and Analysis of Microwave Stepped Impedance Low Pass Filter for Bluetooth Application" *Proc. of IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT-2015)*, SVS College of Engineering, Coimbatore, ISBN : 978-1-4799-6084-2, Vol 3, pp. 1516 - 1518, **IEEE Xplore**, 05-07 March-2015.
10. Sunandan Bhunia, **Avisankar Roy**, Partha Pratim Sarkar, 'Compact wideband dual frequency (dual band) microstrip patch antenna for wireless communication', *2016 URSI Asia-Pacific Radio Science Conference*, Seoul, Korea, **IEEE Xplore**, 978-1-4673-8801-6/16 ©2016 IEEE, pp. 1357-1360, August 21-25, 2016.
11. Sunandan Bhunia and **Avisankar Roy**, "A Study on the effect of a rectangular slot on miniaturization of microstrip patch antenna", *International Conference on Communication, Devices and Computing*, Organized by Dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, 2-3 November 2017, published in **Springer Lecture Notes in Electrical Engineering**, vol. 470, pp. 141-150, ISBN - 978-981-10-8584-0, 2017.
12. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, "Compact Dual Band Microstrip Antenna using Square Loop Slot for GSM 1800 and HiperLAN-2 applications", *2nd International Conference on Communication, Devices and Computing (ICCDC 2019)*, Organized by Dept. of Electronics & Communication Engineering, Haldia Institute of Technology, Haldia, on 14-15 March 2019, published in **Springer Lecture Notes in Electrical Engineering**, vol. 602, pp. 35-43, ISBN - 978-981-15-0828-8, 2020.
13. Surajit Mukherjee, **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, "Compact Multi Frequency Microstrip Antenna with Enhanced Gain using Multiple U-Shaped Slotted Modified Ground Plane", *1st International Conference on Innovation in Modern Science and Technology (ICIMSAT 2019)*, Organized by Siliguri Institute of Technology, Siliguri, Darjeeling, on 20-21 September 2019, **Published in Springer Book Series: Learning and Analytics in Intelligent Systems**, vol. 12, pp. 974-981, 2020.

14. **Avisankar Roy**, Surajit Mukherjee and Sunandan Bhunia, “Design of Modified Grounded Microstrip Antenna for Dual Band operation in Wireless Communication”, *VLSI DCS-2020 : 2nd International Conference on VLSI Device, Circuit and System*, Organized by IEEE Electron Device MSIT Student Branch Chapter, Meghnad Saha Institute of Technology, Kolkata, **IEEE Xplore**, 978-1-7281-1933-5/20 ©2020 IEEE, pp. 263-266, July 18-19, 2020.
15. Surajit Mukherjee, Smarajit Maity, Tapas Tewary, **Avisankar Roy**, Sunandan Bhunia, “Design of dual band rejected Square UWB microstrip antenna”, *Proc. Of 3rd Int. Conf. on Communication, Devices and Computing (ICCDC 2021)*, Organized by dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, WB, August 16-18, 2021, Published in Lecture Notes in *Electrical Engineering*, Springer, Vol. 851, pp. 477-486, ISBN 978-981-16-9153-9, Jan 2022. **[Scopus Indexed]**
16. Smarajit Maity, Tapas Tewary, Surajit Mukherjee, **Avisankar Roy**, Sunandan Bhunia, “Compact Broadband Antenna using Modified Ground Plane”, *Proc. Of 3rd Int. Conf. on Communication, Devices and Computing (ICCDC 2021)*, Organized by dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, WB, August 16-18, 2021, Published in Lecture Notes in *Electrical Engineering*, Springer, Vol. 851, pp. 25-32, ISBN 978-981-16-9153-9, Jan 2022. **[Scopus Indexed]**
17. Sunandan Bhunia, Neha Gupta, Nitu Kumari, Jyotirmoy Bhargav, **Avisankar Roy**, Tapas Tewary, Smarajit Maity, “Study and Analysis on Compactness of Patch Antenna Utilizing Ground Plane with U slot”, *3rd International Conference on Innovative Research in Renewable Energy Technologies (IRRET 2023)*, Organized by dept. of Electronics and Communication Engineering, IMPS College of Engineering and Technology, Malda, WB, 9-10 April 2023.
18. **Avisankar Roy**, Surajit Mukherjee, Tapas Tewary, Smarajit Maity, Sunandan Bhunia, “Design of a compact dual-band antenna with meandered slotted patch and U-slotted defected ground plane”, *Proc. Of 4th Int. Conf. on Communication, Devices and Computing (ICCDC 2023)*, Organized by dept. of Electronics and Communication Engineering, Haldia Institute of Technology, Haldia, WB, March 1-3, 2023, Published in Lecture Notes in *Electrical Engineering*, Springer, Vol. 1046, Chapter 54, ISBN: 978-981-99-2709-8, DOI : 10.1007/978-981-99-2710-4, July 2023. **[Scopus Indexed]**
19. Kushal Roy, **Avisankar Roy**, Surajit Mukherjee, Dibyendu Chowdhury, Tirthadip Sinha, Subhashree Choudhury, “Study and Accurate Estimation of the Far Field Profile in Kerr Type Nonlinear Parabolic Index Optical Fiber for the First Higher Order (LP11) Mode Using Power Series Expansion Method Based on Chebyshev Technique”, *2nd International conference on Advances in Power, Signal and Information Technology (APSIT 2023)*, organized by Department of Electrical & Electronics Engineering, Institute of Technical Education & Research, Faculty of Engineering & Technology, Siksha ‘O’ Anusandhan Deemed to be University, 9-11 June 2023, Published by **IEEE Xplore**, ISBN: 979-8-3503-3936-9/23, pp. 745-750, DOI: 10.1109/APSIT58554.2023.10201775, August 2023. **[SCOPUS indexed]**
20. Surajit Mukherjee, **Avisankar Roy**, Sunandan Bhunia, “Design of Tri notched Ultrawideband antenna using U Slots and EBG structure”, *Proc. Of International Conference on Ambient Intelligence, Knowledge Informatics and*

List of Books

1. “Advance nano ceramic PZT sensors”, *Lap Lambert Academic Publishing, Germany*, ISBN 978-3-659-66793-0, 29th December 2014, by Kushal Roy, **Avisankar Roy** and Avishek Das.
2. “J2ME Based Mobile Camera Controller using 802.11b Standards”, *Lap Lambert Academic Publishing, Germany*, ISBN 978-3-659-68286-5, 2015, 28th January 2015, by **Avisankar Roy**, Kushal Roy and Avishek Das.
3. “Design of a Arduino Processor Based Bi-Servo Robotic Walker”, *Lap Lambert Academic Publishing, Germany*, ISBN 978-3-659-68448-7, 2015, 29th January 2015, by Dibyendu Chowdhury, **Avisankar Roy** and Avishek Das.
4. “Lead zirconium Titanate nano ceramic thin films and sensors- Industrial Applications”, ISBN 9783330062788, *Lap Lambert Academic Publishing, Germany*, March 2017, by Kushal Roy, **Avisankar Roy** and Shamba Chatterjee.

Book Chapter

1. Sunandan Bhunia and **Avisankar Roy**, “A Study on the effect of a rectangular slot on miniaturization of microstrip patch antenna”, **Springer Lecture Notes in Electrical Engineering**, ISBN 978-981-16-9153-9, Vol. 470, pp. 141-150, ISBN - 978-981-10-8584-0, 2017. [Scopus Indexed]
2. **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Compact Dual Band Microstrip Antenna using Square Loop Slot for GSM 1800 and HiperLAN-2 applications”, **Springer Lecture Notes in Electrical Engineering**, Vol. 602, pp. 35-43, ISBN - 978-981-15-0828-8, 2020. [Scopus Indexed]
3. Surajit Mukherjee, **Avisankar Roy**, Sunandan Bhunia, Debasree Chanda Sarkar, Partha Pratim Sarkar, “Compact Multi Frequency Microstrip Antenna with Enhanced Gain using Multiple U-Shaped Slotted Modified Ground Plane”, **Springer Book Series: Learning and Analytics in Intelligent Systems**, ISBN: 978-3-030-42363-6, DOI: https://doi.org/10.1007/978-981-16-9154-6_3, Chapter – 3, Vol. 12, pp. 974-981, 2020.
4. Surajit Mukherjee, Smarajit Maity, Tapas Tewary, **Avisankar Roy**, Sunandan Bhunia, “Design of dual band rejected Square UWB microstrip antenna”, **Lecture Notes in Electrical Engineering, Springer**, ISBN 978-981-16-9153-9, DOI: https://doi.org/10.1007/978-981-16-9154-6_45, Chapter – 45, Vol. 851, pp. 477-486, Jan 2022. [Scopus Indexed]
5. Smarajit Maity, Tapas Tewary, Surajit Mukherjee, **Avisankar Roy**, Sunandan Bhunia, “Compact Broadband Antenna using Modified Ground Plane”, **Lecture Notes in Electrical Engineering, Springer**, ISBN 978-981-16-9153-9, Vol. 851, pp. 25-32, Jan 2022. [Scopus Indexed]
6. **Avisankar Roy**, Surajit Mukherjee, Tapas Tewary, Smarajit Maity, Sunandan Bhunia, “Design of a compact dual-band antenna with meandered slotted patch and U-slotted defected ground plane”, **Lecture Notes in**

Electrical Engineering, Springer, ISBN: 978-981-99-2709-8, DOI : 10.1007/978-981-99-2710-4_54, Vol. 1046, Chapter 54, pp. 677-684, July 2023. [**Scopus Indexed**]

Edited Book:

1. Proceedings of the 3rd International Conference on Communication, Devices and Computing (ICCDC 2021), Lecture Notes in Electrical Engineering, Published by Springer, Singapore, Edited by Biplab Sikdar, Santi Prasad Maity, Jagannath Samanta and **Avisankar Roy**, DOI: <https://doi.org/10.1007/978-981-16-9154-6>, ISBN 978-981-16-9153-9, Vol. 851, Jan 2022. [**Scopus Indexed**]