

**Prof. (Dr.) Ankur Ganguly**  
**Dean Academics &**  
**i/c Dean – Royal School of Engineering & Technology &**  
**Royal School of Information Technology**

*The Assam Royal Global University*  
*Guwahati, Assam, India*  
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## Education

**PhD (Engineering)**, 2011, Jadavpur University, West Bengal, India

Dissertation Title: Characterization of HRV among the population of Northern hilly region of West Bengal

**Master of Technology (M. Tech)**, 2002, Manipal Institute of Technology, MAHE, Deemed University, specialization: Bio-Medical Engineering

Dissertation Title: DICOM in Ultrasound

**Bachelor of Engineering (B.E)**, 2000, Electrical & Electronics Engineering (EEE), K V G College of Engineering, Mangalore University

Dissertation Title: Fabrication of half controlled bridge rectifier with thyristor in asymmetrical configuration

## Academic Experience (21+ years)

<b>01.08.2022 – Till date</b>	<b>Royal Global University, Guwahati, Assam</b> <b>Dean – Academics &amp; i/c Dean – Royal School of Engineering &amp; Technology, Royal School of Information Technology, Royal Global University, NH-37, opp. Tirupati Balaji Temple, Betkuchi, Guwahati, Assam 781035, India. <a href="http://www.rgu.ac">www.rgu.ac</a></b>
<b>03.03.2004 – 27.07.2022</b>	<b>Institutions under the aegis of Techno India Group, Kolkata</b>
<b>01.01.2022 – 27.07.2022</b>	<b>Assistant Director – Techno India Group - Block - DG 1/1, Action Area 1, New Town, Rajarhat, Kolkata – 700156, India &amp;</b> <b>Professor – Electrical Engineering Department - Techno International New Town, Block - DG 1/1, Action Area 1, New Town, Rajarhat, Kolkata – 700156, India</b>
<b>01.07.2020 – 31.12.2021</b>	<b>Principal, Meghnad Saha Institute of Technology, Nazirabad Rd, Uchhepota, Kolkata, West Bengal 700150</b>
<b>19.08.2014 – 30.06.2020</b>	<b>Principal, Techno International - Batanagar, Techno India Group, Maheshtala, Kolkata – 700141, West Bengal, India</b>

01.08.2013 – 15.08.2014	<b>Principal &amp; Head of the Department</b> – Applied Electronics & Instrumentation Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
15.03.2013 – 31.07.2013	<b>Principal &amp; Head of the Department</b> – Applied Electronics & Instrumentation Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
01.12.2012 – 14.03.2013	<b>Coordinator – Student Affairs (Academic &amp; Non-Academic), Assistant Professor &amp; Head of the Department</b> – Applied Electronics & Instrumentation Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
01.07.2010 – 30.11.2012	<b>Head of the Department &amp; Assistant Professor (6th Pay)</b> – Applied Electronics & Instrumentation Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
01.01.2010 – 30.06.2010	<b>Head of the Department &amp; Assistant Professor (5th Pay)</b> <b>Head of the Department</b> – Applied Electronics & Instrumentation Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
01.02.2008 – 31.12.2009	<b>Head of the Department &amp; Senior Lecturer</b> – Biomedical Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India
03.03.2004 – 31.01.2008	<b>Head of the Department &amp; Lecturer</b> – Biomedical Engineering, Siliguri Institute of Technology, Techno India Group, Siliguri, West Bengal, India

<b>13.09.2002 – 08.01.2004</b>	<b><i>KVG College of Engineering, Sullia (D.K), Karnataka</i></b>
	Lecturer, Department of Electronics & Communication Engineering

### **Industrial Experience**

01.08.2001 - 22.03.2002	Project Assistant, Embedded Systems, Larsen & Toubro, Mysore, Karnataka
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### **Publications & Talks (Refer Appendix I for details)**

<b>Research Papers</b>	<b>79</b>
International Journal	35
National Journal	03
International Conference	26
National Conference	15
<b>Patents</b>	<b>06</b>

<b>Book Chapters</b>	<b>03</b>
<b>Edited Books</b>	<b>01</b>
<b>Technical Articles</b>	<b>05</b>
<b>Invited Talks</b>	<b>04</b>

### **Special Recognitions (Awards & Honors')**

1. **Best Paper Award** on, "PV Based Battery Swapping Fast Charging Station for Small Passenger Transport Electric Vehicles in Rural West Bengal" at 6th International Conference on Energy Systems, Drives & Automations (ESDA 2023), Kolkata, India, 30th- 31st December 2023 (Springer)
2. **Nodal Center Incharge in Smart India Hackathon 2023 Grand Finale** organized at Royal Global University under the aegis of Ministry of Education, GOI, MoE's Innovation Cell, GOI & AICTE on 19<sup>th</sup> -20<sup>th</sup> December 2023.
3. **Evaluator – KAVACH 2023, Cybersecurity Hackathon, 2023**, organized by Ministry of Home Affairs & others, Govt. of India (Grand Finale 8th -9th August 2023)
4. **Certificate of Recognition** – Sir C.V Raman Technology Enthusiast for outstanding contribution to the Academic Achievement & Personal Growth of the students of the Institute, Awarded by All India Eminent Faculty Council of Engineering, Management & Technology on 21st November 2021.
5. **Certificate of Honor**, on National Education Day 2021, for validating and dedicated commitment for Promoting of Education & Research, awarded by Nikhil Bharat Siksha Parisad, Registered & Licensed Organization under Ministry of Corporate Affairs, Govt. of India, Under Section -8, CIN: U80904WB2020NPL242060, 11th November 2021.
6. **Awarded Fellow (EID: NBSPIN32A)**, Nikhil Bharat Siksha Parisad, Registered & Licensed Organization under Ministry of Corporate Affairs, Govt. of India, Under Section -8, CIN: U80904WB2020NPL242060, 16th January 2021
7. **Honorary Member, Board of Studies**, All India Eminent Faculty Council of Engineering, Management & Technology, Membership id: BOS/KOL/WB/0042, dated 25th November 2020.
8. **Session Chairman**, International Conference on Energy Systems, Drives and Automations (ESDA2019), 28<sup>th</sup> & 29<sup>th</sup> December 2019 At Hotel Celesta, VIP Road, Kolkata-700059, organized by Applied Computer Technology, Kolkata, India
9. **Session Chairman**, International Conference on Impact of Changing Energy Mix in Power Sector (ICIEMPS -2019), 23rd & 24th November 2019, Lalit Great Eastern, Kolkata, India organized by The Institute of Engineers (India), West Bengal State Center – Electrical Engineering Division.

10. **Convener – Board of Studies (Biomedical Engineering)** - Maulana Abul Kalam Azad University of Technology, West Bengal
11. **Ex-Officio Member, “Sexual Harassment of Women at Workplace”**, Board of Practical Training (Eastern Region), MHRD, Govt. of India (Vide order no. BOPT/C/Admin-155/Conduct/78/07 dated 16.04.2015)
12. **Session Chair**, Micro-2019: 6th International Conference on Microelectronics, Circuits & Systems: July 6&7, 2019, Amity University, Kolkata, India
13. **Received an award** of Rs. 4000 for the project proposal Low-Cost Electric Lantern for Rural Home/Community Lighting Application Using Hybrid Chargers to Services to Community & Economy Activities, under TEQIP, TEQIP Cell, Jadavpur University, Kolkata. 31st March 2009.
14. **Best Paper Award** at National Conference on Electronics, Communication, Sensing and Signal processing (ECSS 12) for the paper "Transmission, Retrieval and Digital Processing of an Analog Signal Isolated Source by Incorporating Zig-Bee Technology Framework" (Paper ID: ECSS 270), Rajorshi Sarkar, Subhojit Sarker, Ankur Ganguly and D.N. Tibarewala, 2nd November 2012, Surendra Institute of Engineering & Management, Siliguri, West Bengal.
15. **Award of Honour as Session Chairman** at 2nd International Conference on Biomedical Engineering & Assistive Technologies (BEATS 2012), 6th & 7th December 2012, Dr. B R Ambedkar National Institute of Technology, Jalandhar, India
16. **Best Technical Session Paper Award** at 2<sup>nd</sup> International Conference on Biomedical Engineering & Assistive Technologies (BEATS 2012), 6th & 7th December 2012, Dr. B R Ambedkar National Institute of Technology, Jalandhar, India, for the paper “Artificial Neural Network based pattern recognition approach to study the consequence of audiovisual stimulus on Autonomic Nervous System in Females explored through Heart Rate Variability”, 6<sup>th</sup> & 7<sup>th</sup> December 2012, Dr. B R Ambedkar National Institute of Technology, Jalandhar, India

### **Reviewer of International Journals**

1. Journal of Power Technologies
2. IEEE Transactions on Human-Machine Systems
3. AR Research Publication & Conference World
4. Biomedical Signal Processing and Control
5. Inderscience Publications

### **Projects Submitted & Consultancy**

1. Development of a Cheaper X-Ray Fluorescence Spectrometer for R&D – DST - 2017

2. Study of Electrical Installation of the Hospital & Suggesting Remedial Measures of Improvement – The Woodlands Super Specialty Hospital – Kolkata, WB

### **Membership of Professional Bodies**

1. **Fellow (No: F- 123241)**, The Institute of Engineers (India)
2. **Fellow (No. F 237373)**, The Institute of Electronics & Telecommunication Engineers (IETE), 2015
3. **Fellow (EID: NBSPIN32A)**, Nikhil Bharat Siksha Parisad, 2021
4. **Senior Member (92432849)**, Institute of Electrical & Electronics Engineers (IEEE), USA
5. **Nominee Member (F8001227)**, Computer Society of India (CSI)
6. **Life Member (LM-74078)**, Indian Society for Technical Education (ISTE), 2010
7. **Life Member (N-227)**, Biomechanics Society of India (BSI), India
8. **Honorary Member**, All India Eminent Faculty Council of Engineering, Management & Technology, Membership id: HM/KOL/WB/026, Dated: 26th November 2020.
9. **Member** of Forum of Scientists, Engineers, and Technologists (FOSET)

### **Member of Organizing Committee**

1. **Joint Convener - AIU East Zone Karmotsav 2.0**, hosted by The Assam Royal Global University, 6<sup>th</sup> – 10<sup>th</sup> February 2024
2. **Joint Convener - AIU East Zone Vice Chancellors' Meet** Working Committee, The Assam Royal Global University, 21st & 22nd November 2023,
3. **Zonal Co-Coordinator – Anveshan 2022 – AIU East Zone Student Research Convention**, organized by Association of Indian Universities, The Assam Royal Global University, 1st & 2nd March 2023
4. **Chief Advisor**, 5th National Conference on Business Innovation, Economics & Management (BIEM-2013)", Siliguri Institute of Technology, Siliguri, W.B., 16th -17th November 2013
5. **Convener**, National Seminar on Instrumentation –The Future, 26th August 2012, Siliguri Institute of Technology, Siliguri, W.B.
6. **Associate**, National Workshop – Autonova, 13th -14th April 2012, Siliguri Institute of Technology, Siliguri in association with IIT – Kanpur
7. **Program Advisor**, National Seminar on Changing Scenario in Hospitality Industry in Indian Perspective, 6th & 7th March, 2008, Siliguri Institute of Technology, Siliguri
8. **Associate Secretary**, National Conference on Non-conventional Energy Technology & its Impact on Conventional Power System, 28th – 29th April, 2007, Siliguri Institute of Technology, Siliguri

9. **Associate Secretary**, AICTE Sponsored Staff Development Program (SDP) on Application of Microprocessor, Microcontroller & Digital Signal Processors in Electrical Engineering, 16th – 28th April 2007, Siliguri Institute of Technology, Siliguri
10. **Coordinator**, AICTE sponsored Staff development Program (SDP) on Bioinstrumentation, held during 1st -14th March 2007, Siliguri Institute of Technology, Siliguri

### **Participation in Academic Work of External Bodies**

1. Member of the PhD Committee on Biomedical Engineering, Maulana Abul Kalam Azad University of Technology, since 02.09.2021
2. Convener – Board of Studies (BOS) - on Biomedical Engineering, Maulana Abul Kalam Azad University of Technology, since 16.05.2021
3. External Examiner, M.E examination, Jadavpur University, Since 2010
4. Expert for faculty selection of Techno India Group Colleges & Sister Nivedita University
5. Observer for West Bengal Joint Entrance Examination Board to Raigunj Polytechnic College, Raigunj, W.B, 22.05.2011
6. University Station Supervisor (USS) for West Bengal University of Technology 2007 -2011
7. Head Examiner of Bio-Medical Engineering, West Bengal University of Technology (WBUT), 2004-2012:
8. Paper setter of various subjects of West Bengal University of Technology (WBUT) since 2004
9. Examiner, West Bengal University of Technology (WBUT) since 2004
10. Paper setter, VTU, Karnataka, 2002-2003

### **Courses Taught**

Power Plant Instrumentation, Industrial Automation & Control, Power Electronics, Sensors and Transducers , Electrical and Electronic Measurements, Basic electronics, Thermal engineering, Heat power engineering, Network analysis, Analog communication, Digital communication, Transducers and Instrumentation, Biomedical Image processing, Modeling of Physiological Systems, Bioinformatics, Biophysical signals and systems, Biophysics, Biomechanics, Bioinstrumentation, Hospital Engineering & Information Systems, Biomedical signal processing, Biological Control Systems, Basic Electricals, Basic Physics, Research Methodology

### **Research Interests**

Machine Learning, Power electronics applications, application of high frequency converter, energy efficient devices, energy efficient drives, Heart Rate Variability Analysis, Biomedical Engineering

## **Ph.D. Thesis Supervised**

### ***Ph. D. Awarded (04)***

1. Subhojit Sarker - "On Application of Non-Linear Techniques in the Analysis of Heart Rate Variability (HRV)", Jadavpur University, Awarded 24.12. 2015 (Co-Supervisor)
2. Alok Kumar Shrivastav - "Power Quality Estimation & Mitigation of Disturbance in Distribution Systems", Electrical Engineering Department, Indian School of Mines, Dhanbad. IIT (ISM) Dhanbad, Awarded 2019 (Co-Supervisor)
3. Ms. Mayuri Sarmah – "Design and Development of a Machine Learning based Framework for Diagnosing Disease and Deficiency in Rice Plants", Department of Computer Science, Royal School of Engineering & Technology, Royal Global University, Guwahati, Assam, India, Awarded 16.10.2023 (Supervisor)
4. Suman Kumar Laha - "Performance Analysis and Application of Temperature Efficient Concentrated Photovoltaic systems", Department of Electrical Engineering, - IIT (ISM) Dhanbad, Awarded 30.11.2023 (Co-Supervisor)

### ***Ph. D. Thesis Work in Progress (02)***

1. Bidrohi Bhattacharjee - "Solar Photovoltaic Integrated Drives for Future Generation", Department of Electrical Engineering, (Registration w.e.f 09.11.2016) - IIT (ISM) Dhanbad (Co-Supervisor)
2. Ms. Antara Malakar – "Design and development of Deep Learning based model for prediction of eye diseases in North-Eastern States of India", Department of Computer Science, Royal School of Engineering & Technology, Royal Global University, Guwahati, Assam, India (Supervisor)

### ***M.E. Thesis Supervised (02)***

1. "Design of ECG Amplifier Using AD620 And Parameter Extraction Using VLSI Techniques" under WBUT, West Bengal, 2010
2. "Effect of Emotional Audio-Visual Stimulus on Autonomic Nervous System In Young Females" under Jadavpur University, West Bengal, 2011

### ***B.E./B.Tech Project***

33+ different projects are supervised on different areas.

## **Faculty Development Programme/Short Term Courses Attended**

1. DS0101EN: Introduction to Data Science conducted by edex and IBM
2. HRD through Training and Development: organized by NITTTR Kolkata from 27/04/2020 to 01/05/2020.
3. NPTEL - AICTE Online Faculty Development Programme (8 weeks) on Accreditation and Outcome Based Learning, August - October 2019 (Qualified with Elite Silver – 84%)

4. QIP Short Term Course on Fuzzy Logic with Applications (STCFCLA – 2017), March 20-25, 2017, Department of Mathematical Sciences, Indian Institute of Technology, (Banaras Hindu University), Varanasi – 221 005, India
5. One Day Course on Research Methodology, 30th July 2016, Organized by Computer Society of India, Kolkata Chapter, Kolkata, India
6. AICTE Sponsored Staff Development Programme on Advancement of Modern Communication & Integrated Circuit Technology, 2nd – 16th July 2007, organized by Department of Electronics & Communication Engineering, Siliguri Institute of Technology, Siliguri, West Bengal, India
7. AICTE Sponsored Staff Development Programme on Application of Microprocessor, Microcontroller & DSP in Electrical Engineering, 16th – 28th July 2007, organized by Department of Electrical Engineering, Siliguri Institute of Technology, Siliguri, West Bengal, India
8. Training Programme on Internal Audit (for ISO 9001:2000), 11th & 12th July 2003, organized by Stellar Management Consultants Pvt. Ltd, Bangalore

#### **Participation in Conference/Seminar/Workshops**

1. Participated, National Conference on Electrical, Electronics, and Computer Engineering - IEEE CALCON 2014, November 7-8, 2014, Hotel Park Prime Kolkata
2. Participated, National Seminar on Effect of Non-Linear Dynamics & Chaos in the field of Electrical Engineering, 4th August 2012, Siliguri Institute of Technology, Siliguri
3. Participated in Seminar on Prospect of retail business in India, Siliguri Institute of Technology, Siliguri, 14th -15th March, 2008
4. Participated in Seminar on New Generation Wireless Antennas, Siliguri Institute of Technology, Siliguri, 24th March 2008
5. Participated in Seminar on Artificial Intelligence based approaches to Document analysis and Recognition, Siliguri Institute of Technology, Siliguri, 25th March, 2008
6. Participated in National Seminar on “Renewable Energy Sources and Energy Management”, Siliguri Institute of Technology, Siliguri, 11th April, 2008
7. Participated in National Seminar on “Recent Trends in Integrated Circuits and Communication Technology”, Siliguri Institute of Technology, Siliguri, 29th & 30th August, 2008
8. Participated, AICTE sponsored National Seminar on Hydrogen technology & Renewable energy for Green Environment, 16th -17th April 2007, Siliguri Institute of Technology, Siliguri
9. Participated, National Workshop on Astronomy for Engineers, 6th -7th September 2006,

10. Master of Ceremony for the National Conference SATITAS 2003 in K.V.G College of Engineering
11. Member, National Conference SATITAS-2003, K.V.G College of Engineering.

### **University Engagements (The Assam Royal Global University) (as on date)**

#### ***Member:***

1. The Board of Management
2. The University Research Council
3. The IQAC
4. Central Results Moderation Committee
5. Committee to Vet the Syllabus
6. Committee for International Affairs Office
7. Steering Committee for Interdisciplinary Teaching and Research
8. Committee to prepare students for NET Examination
9. Time – Table Review Committee
10. NAAC SSR review Committee
11. Committee to Award Best Researcher
12. Samarth e-Gov suite, MoE, Govt. of India (Academics & SLC Modules & Data Management)

#### ***Special Invitee***

1. The Academic Council
2. The Governing Body

#### ***Chairperson***

1. Attendance Review Committee
2. Committee to assess and evaluate the credibility, authenticity, impact factor of the journals and contribution of faculty members towards the journals.

#### ***Convener***

1. Committee for framing diploma/UG/PG & PhD Curriculum.
2. Committee to review the website of the University.
3. Research Review Committee
4. Committee for conducting Farewell & Freshers of Students

#### ***Advisor***

Equal Opportunities Cell

#### ***Coordinator***

Organizing Committee for all India Inter University Baseball Tournament 2022 -23

#### ***Head***

PhD Cell

**Web of Science Researcher ID: V-4942-2019**

**Scopus Author ID: 57040573800**

**ORCID: 0000-0002-1893-6478**

**Vidwan Id: 275143**

**<https://www.linkedin.com/in/prof-dr-ankur-ganguly-451061121/>**

**<https://scholar.google.co.in/citations?user=3bIH4AAAAAJ&hl=en>**



**Prof. (Dr.) Ankur Ganguly**

**Place: Kolkata**

**APPENDIX - I**  
**Publication Details**  
**(Updated January 2024)**

<i>Publications</i>								
<i>International</i>		<i>National</i>		<i>Patents</i>		<i>Edited Books/ Books Chapters</i>	<i>Technical Articles</i>	<i>Total</i>
<i>Journal</i>	<i>Conference</i>	<i>Journal</i>	<i>Conference</i>	<i>Published</i>	<i>Granted</i>			
35	26	03	15	03	03	04	05	<b>94</b>

**a. Journal:**

**a.i. International: (35)**

**Published:**

**2023: (2)**

1. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly**, Ashok Kumar Naskar, "Photovoltaic energy based fast charging strategy for VRLA batteries in small electric vehicles for sustainable development", *Microsystem Technologies*, DOI: 10.1007/s00542-023-05551-5, Springer Nature, 14 November 2023 (Impact Factor: 2.1, Indexed by SCOPUS, Science Citation Index, Science Citation Index Expanded (SCIE), UGC-CARE List (India), etc.)
2. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly**, Ashok Kumar Naskar, "*Using fuzzy systems for optimal network reconfiguration of a distribution system with electric vehicle charging stations and renewable generation*", *Microsystem Technologies* (2023). DOI: <https://doi.org/10.1007/s00542-023-05543-5>, Springer Nature, 11 November 2023 (Impact Factor: 2.1, Indexed by SCOPUS, Science Citation Index, Science Citation Index Expanded (SCIE), UGC-CARE List (India), etc.)

**2022: (2)**

1. Subhash Mondal, Suharta Banerjee, Subinoy Mukherjee, **Ankur Ganguly**, Diganta Sengupta, "*Deep Classifier for Conjunctivitis – A Three-Fold Binary Approach* ", *International Journal of Mathematical Sciences and Computing (IJMSC)*, Vol.8, No.2, pp. 46-54, 2022. DOI: 10.5815/ijmsc.2022.02.05 (Peer Reviewed)
2. Suman Kumar Laha, Pradip Kumar Sadhu, **Ankur Ganguly** & Ashok Kumar Naskar "*A Comparative Study on Thermal Performance of a 3-D Model Based Solar Photovoltaic Panel Through Finite Element Analysis*", *Ain Shams Engineering Journal*, ISSN: 2090-4479, Vol: 13, Issue: 2, Page: 101533, Publication Year: 2022, DOI: 10.1016/j.asej.2021.06.019 (Impact Factor: 3.180, Science Citation Index Expanded, Scopus, Directory of Open Access Journals (DOAJ), Ei Compendex, INSPEC)

**2021: (3)**

1. Sumagna Dey, Pradyut Nath, Saptarshi Biswas, Subhprapatim Nath, and **Ankur Ganguly** "*Malaria detection through digital microscopic imaging using Deep Greedy Network with transfer learning*," *Journal of Medical Imaging* 8(5), 054502 (28 September 2021). <https://doi.org/10.1117/1.JMI.8.5.054502> (Impact Factor: ESCI, Scopus)

2. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly**, Ashok Kumar Naskar, "**Integrated Green Submersible Pumping System For Future Generation**", Facta Universitatis Series: Electronics And Energetics, Vol 34, No 1 (2021), DOI Number, <https://doi.org/10.2298/FUEE2101037B>, pp. 037-051, ISSN: 0353-3670 (Print), ISSN: 2217-5997 (Online), COBISS.SR-ID 12826626 (Emerging Sources Citation Index , Directory of Open Access Journals)
3. Suman Kumar Laha, Pradip Kumar Sadhu, Rudra Sankar Dhar, Rajesh Dey, Sumanta Bhattacharya, **Ankur Ganguly** & Ashok Kumar Naskar, "**Analysis of mechanical stress and structural deformation on a solar photovoltaic panel through various wind loads**", Microsystem Technologies, Vol.27, No.10, pp.1-10, 2021. <https://doi.org/10.1007/s00542-020-05142-8> (Impact Factor: 2.276, SCImago, SCOPUS, Science Citation Index, Science Citation Index Expanded (SCIE), UGC-CARE List (India))

### 2020: (2)

1. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly** and Ashok Kumar Naskar, "**A New Generation Solar Photovoltaic Integrated System For Elevator Door Operation**", International Journal of Future Generation Communication and Networking; 2020; Vol 13(1); Pages 1-12, <https://www.sciencegate.app/journal/232406> (ESCI (WEB OF SCIENCE), Proquest, Ulrich, Google Scholar, Crossref)
2. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly** and Ashok Kumar Naskar, "**Implementation and Cost Analysis of a Smart Green Energy Based Integrated System for Elevator Cabin**", International Journal of Future Generation Communication and Networking (IJFGCN), ISSN: 2233-7857(Print); 2207-9645(Online), NADIA, (2020), Vol. 13, No. 3, pp. 15-26. (ESCI (WEB OF SCIENCE), Proquest, Ulrich, Google Scholar, Crossref)

### 2019: (6)

1. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly** and Ashok Kumar Naskar "**Design of a New Generation "SOLAR ANTBOT" for Mankind**", International Journal of Future Generation Communication and Networking (IJFGCN), ISSN: 2233-7857(Print); 2207-9645(Online), NADIA, (2019), Vol. 12, No. 4, pp. 39-56. DOI 10.33832/ijfgcn.2019.12.4.04 publisher name NADIA ISSN (Print) 2233-7857, ISSN (Online) 2207-9645 (ESCI (WEB OF SCIENCE), Proquest, Ulrich, Google Scholar, Crossref)
2. Alok Kumar Shrivastav, Pradip Kumar Sadhu, **Ankur Ganguly** (2019) "**An Evaluation of Flux Coupling Type SFCL Placement Based on Power Quality Risk Index**" Electric Power Components and Systems, (Taylor and Francis), ISSN: 1532-5008 (Accepted) (Thomson Reuter, SCI & SCI Expanded).
3. S.K.Laha, P.K.Sadhu, **A.Ganguly**, A.K.Naskar, "**Solar Power based Modelling and Monitoring of an Anti-theft luggage system through Smartphone for developing a Smart Society**" International Journal of Innovative Technology and Exploring Engineering, Vol.8, No.9 .pp.2439-2442, 2019. (SCOPUS, Google Scholar, Crossref)
4. Suman Kumar Laha, Pradip Kumar Sadhu, **Ankur Ganguly** and Ashok Kumar Naskar, "**Wireless Power Transfer Using Inductive Coupling Principle For Portable Charging Devices Through**

***Solar Photovoltaic With Auto Switching*** , International Journal of Future Generation Communication and Networking, Vol. 12, No. 3 (2019), pp.25-40, <http://dx.doi.org/10.33832/ijfgcn.2019.12.3.03>, ISSN: 2207-9645 IJFGCN, (ESCI (WEB OF SCIENCE), Proquest, Ulrich, Google Scholar, Crossref)

5. Alok Kumar Shrivastav, Pradip Kumar Sadhu, **Ankur Ganguly**, "***Stability and Harmonic Analysis of Transient Current Limiter in Distribution System***", Microsystem Technologies (Springer Verlag GmbH Germany) Vol. 25: Page: 1833–1839, (2019) ISSN: 0946-7076 (Impact Factor: 2.276, SCImago, SCOPUS, Science Citation Index, Science Citation Index Expanded (SCIE), UGC-CARE List (India))
6. Kaushik Neogi, Moumita Sadhu, Niladri Das, Pradip Kumar Sadhu, Agamani Chakraborty, **Ankur Ganguly**, Atanu Banerjee, "***A new approach for the stability analysis of high-frequency series resonant inverter-fitted induction heater***", Ain Shams Engineering Journal 10 (2019) 185–194. ISSN / eISSN 2090-4479 / 2090-4495. (Impact Factor: 3.180, Science Citation Index Expanded, Scopus, Directory of Open Access Journals (DOAJ), Ei Compendex, INSPEC)

#### **2018: (5)**

1. Alok Kumar Shrivastav, Pradip Kumar Sadhu, **Ankur Ganguly**, "***Performance Analysis of Transient Current Limiter in Distribution System***" Engineering, Technology & Applied Science Research. ISSN: 1792-8036, Vol. 8, No. 2, pp. 2640-2645, 2018, (Impact Factor: 0.33; Web of Science / Master Journal List / Emerging Sources Citation Index, Directory of Open Access Journals (DOAJ) (incl. DOAJ Seal), Crossref, Publons, ResearchGate, Google Scholar)
2. Alok Kumar Shrivastav, Pradip Kumar Sadhu, **Ankur Ganguly**, Debabrata Roy, "***Efficient Placement Technique of Power Quality Monitor in Power Flow***" International Journal of Mechatronics, Electrical and Computer Technology, ISSN: 2305-0543 (Online), ISSN: 2411-6173 (Print), Vol. 8(29), -Jul. 2018, PP. 3923-3934 (Web of Science (Publons), Google Scholar).
3. Sujit Dhar, Biswajit Dutta, Pradip Kumar Sadhu, Debabrata Roy, **Ankur Ganguly**, "***Biomethanation - A source of clean alternative fuel for Electric Power Generation and sustainable development in rural India***" Journal of Mechanics of Continua and Mathematical Science, ISSN (Print): 0973-8975, ISSN (Online): 2454-7190, Vol.-13, No.-3, July-August (2018) Pages 42-67. (Web of Science (Publons), Google Scholar).
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2. M. Sharma, **A. Ganguly**, A. Deka and C. J. Kumar, "**A Comparative Study of Machine Learning and Ensemble Methods for Rice Disease Diagnosis in RGB Imagery**", First International Conference on Computational Intelligence, Networks and Security ICCINS-2023, Mylavaram, AP, India, 22<sup>nd</sup> -23<sup>rd</sup> December 2023. (IEEE)
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6. Bidrohi Bhattacharjee, Pradip Kumar Sadhu, **Ankur Ganguly**, Ashok Kumar Naskar "**Optimal Network Reconfiguration of a Distribution System with Electric Vehicle Charging Stations**,

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2. Subhojit Sarker , **Ankur Ganguly**, D.N. Tibarewala , “***Use of non-linear techniques to investigate the effect of smoking and alcohol consumption on Heart Rate Variability***”, Proceedings 30<sup>th</sup> Indian Engineering Congress, 17<sup>th</sup> to 20<sup>th</sup> December 2015, organized by Institute of Engineers (Assam State Center), Guwahati, Assam, pp.1-8
3. **Ankur Ganguly**, Subhojit Sarker , D.N. Tibarewala, “***Heart Rate Variability Analysis using Power law Slope among Healthy Male & Female Population***”, Proceedings of 1<sup>st</sup> National Conference on Research Trends in Computer Science & Application, 8<sup>th</sup> February 2014, organized by Siliguri Institute of Technology, PP 9, ISBN 978 -93-82338-95-6
4. Subhojit Sarker, **Ankur Ganguly**, D.N. Tibarewala ***On Application of Higuchi's Algorithm to Determine Fractal Dimension Amongst Male and Female Population of Two Different Terrains***, National Conference on Mechatronics, Robotics and Automation, Bankura Unnayani Institute of Engineering In Association with The Institution of Engineers (India) West Bengal State Centre Sponsored By Technical Education Quality Improvement Programme (TEQIP-II) (A MHRD, Govt. of India Project), 23<sup>rd</sup> – 25<sup>th</sup> January 2014. Proceedings Pg. 110-120

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Engineering Device, Jalpaiguri Govt. Engineering College, Jalpaiguri, 20<sup>th</sup> to 22<sup>nd</sup> February,2009  
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14. **Ankur Ganguly** , D. N. Tibarewala , S. Dasgupta , **Time Domain Analysis of Heart Rate Variability (HRV) Among the Resident Population of North Eastern Hilly Regions of West Bengal**, National Conference on Recent Development in Applied Mathematical Science and Engineering Device, Jalpaiguri Govt. Engineering College, Jalpaiguri, 20<sup>th</sup> to 22<sup>nd</sup> February,2009 Proceedings – Pg. 16
15. **Ankur Ganguly**, **Non Linear Analysis of PRV on Implication of a Group of Drugs on Normal Population of Darjeeling District** , National Conference on Device, Intelligent System& Communication & Networking, Asansol Engineering College, Asansol, 1<sup>st</sup> & 2<sup>nd</sup> August 2008 (Proceedings – Pg. 171-174)

#### **Books authored/Books edited/Book chapters published: (4)**

1. Associate Editor, “INNOVATIVE TRENDS IN ENTREPRENEURSHIP: Need, Opportunities and Challenges” RED’SHINE PUBLICATION, 62/5834 Harplingegränd 110, LGH 1103. Älvsjö, 12573, Stockholm, Sweden, ISBN:978-91-89764-40-8, ISBN-10: 91-89764-40-4, DOI: 10.25215/9189764404, DIP: 18.10.9189764404, First Edition: September 2023
2. Debajyoti Misra, Ankur Ganguly, D. N. Tibarewala, **Chapter 2: Application of Genetic Algorithm in denoising MRI Images clouded with Rician Noise**”, Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes ( IGI Global Book Series Advances in Bioinformatics & Biomedical Engineering –DOI: 10.4018/978-1-4666-8811-7.ch002, Page(s): 14-38, 2015, ISSN 2327-7033; eISSN: 2327-7041) ISBN 978-1-4666-8811-7 (Hardcover) eISBN 978-1-4666-8812-4
3. **Ankur Ganguly**, D. N. Tibarewala, S. Dasgupta, Subhojit Sarker, **“Chapter 39: Demographic Characterization of Heart Rate Variability (HRV)”**”, Encyclopedia of Information Science and Technology, Third Edition, IGI Global, DOI: 10.4018/987-1-4666-5888-2.ch039, Page(s): 402-412, 2014 , ISBN13: 9781466658882,, ISBN10: 1466658886, EISBN13: 9781466658899
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#### **Invited Talks:**

1. Heart Rate Variability analysis using Power Law Slope among Healthy Male and Female Population, 1st National Conference on Research Trends in Computer Science & Application, 8th February 2014, Siliguri Institute of Technology, Siliguri, West Bengal, India, Technically sponsored by IEEE & CSI, Proceedings (ISBN 978-93-82338-95-6), Pg- 9-10, 2014

2. Chatterjee S., **Ganguly A.** and Tibarewala D.N., “Characterization and Comparison of HRV parameters of the Tea Garden Workers of Northern Hilly Regions of West Bengal on the basis of Age and Gender by Poincare Plot Analysis”, Proceedings of National Seminar on Mathematical Modeling of Natural Phenomena, Indian Society of Nonlinear Analysts, Bose Institute, Kolkata, West Bengal, India, October 29, 2010.

**Patents: (Granted – 3; Published - 3)**

**Published & Granted:**

1.	<b>Title of the invention</b>	A High Frequency Virtual Reactor in Power System with Dispersed Generators to Control Fault Current and Method of Operation
	<b>Patent Office Journal No.</b>	02/2019
	<b>Application no.</b>	201731023466
	<b>Application date</b>	04.07.2017
	<b>Publication date</b>	11.01.2019
	<b>Date of Grant</b>	24.02.2023
	<b>Name of inventors</b>	Alok Kumar Shrivastav, Saumen Dhara, Pradip Kumar Sadhu, Achintya Goswami, Parthabrata Choudhury and <b>Ankur Ganguly</b>
2.	<b>Title of the invention</b>	Self-Powered Smart Intelligent Washable Green Pay and Use Toilet
	<b>Patent Office Journal No.</b>	13/2021 Dated 26/03/2021
	<b>Application no.</b>	201831044807
	<b>Application date</b>	28.11.2018
	<b>Publication date</b>	26.03.2021, Pg. 16350,
	<b>Name of inventors</b>	<b>Ankur Ganguly</b> , Salini Bose, Sudipto Ghosh, Sudipta Paul, Moumita Ghosh, Anubhab Sarkar, Saswata Das, Sandip Dey, Souvik Chatterjee, Biswarup Neogi

3.	<b>Title of the invention</b>	Solar Induction Heating System using High Frequency Hybrid Resonant Inverter under CSI Mode
	<b>Patent Office Journal No.</b>	20/2019
	<b>Application no.</b>	201731040411
	<b>Application date</b>	13.11.2017
	<b>Publication date</b>	17.05.2019
	<b>Date of Grant</b>	26.10.2023
	<b>Name of inventors</b>	Suman Kumar Laha, Md. Tabrez, Pradip Kumar Sadhu, Atif Iqbal, <b>Ankur Ganguly</b> and Ashok Kumar Naskar
4.	<b>Title of the invention</b>	A Pacemaker Battery Recharger for Enhancing the Service Life

	<b>Patent Office Journal No.</b>	Patent Office, Kolkata, Government of India.
	<b>Application no.</b>	445/KOL/2015
	<b>Application date</b>	30. 04. 2015
	<b>Publication date</b>	10.07.2015
	<b>Date of Grant</b>	31.08.2022
	<b>Field of Invention</b>	Electrical
	<b>Sub-core Area</b>	Power Electronics
	<b>Name of inventors</b>	Prof. (Dr.) Pradip Kumar Sadhu, Animesh Halder, Dr. Nitai Pal, <b>Prof. (Dr.) Ankur Ganguly</b> , Dr. Prabir Bhowmik and Moumita Sadhu

5.	<b>Title of the invention</b>	Ultra-Safety Helmet
	<b>Patent Office Journal No.</b>	15/2018
	<b>Application no.</b>	201731028497
	<b>Application date</b>	10/08/2017
	<b>Publication date</b>	13/04/2018
	<b>Name of inventors</b>	Anilesh Dey. <b>Ankur Ganguly</b> . Dr. Papun Biswas. Mr. Abhijit Das. Dr. Sudipta Ghosh. Mr. Saswata Das. Mr. Debjit Mukherjee. Sajal Saha. Mr. Dipesu Banerjee. Dr. Biswarup Neogi. Sudipta Paul.

6.	<b>Title of the invention</b>	A System of Photovoltaic-Integrated Solar Induction Heating using High Frequency Full Bridge Series Resonant Inverter Under CSI (Current Source Inverter) Mode and Solar Thermal Heating and Method for the Same
	<b>Patent Office Journal No.</b>	06/2019
	<b>Application no.</b>	201731028010
	<b>Application date</b>	07.08.2017
	<b>Publication date</b>	08.02.2019
	<b>Name of inventors</b>	Bidrohi Bhattacharjee, Riyaz Ahmed, Pradip Kumar Sadhu, <b>Ankur Ganguly</b> , Ashok Kumar Naskar and Atif Iqbal