SHORT BIODATA OF MR. JOYANTO ROYCHOUDHARY

(M-IE(Institution Of Engineers,India I.D: M-1623332.),
Graduate Student Member-IEEE-R10 - #97512666.
Membership of the International Association of Engineers,
Member,IAENG,MEM. NO.- 315680, Membership Of
" National Society Of Professional Engineers" NSPE, Member IFERP,
Affiliate Membership Of " International Association Of Academic
Plus Corporate with Unique Identity Number: FRTJQC-CE002350,
"Associate Member" International Society for Development and Sustainability (ISDS)
Former IEEE Professional Member since 2013.
Member, Publons(as a "Reviewer of International Journal
of Electronic Letters", supported by "Web of Science"
and AT & T , USA(Taylor & Francis).

AD Scientific Index - World Scientists Rankings – 2023(Joyanto Roychoudhary)
Rank in University/Institution:39; Rank in country: 77,659;
Rank in Region/Asia: 398,886;World Rank: 1,342,242

Publications 1 Journal Articles **7** Conference Proceedings **8** Review **1** Editorial

Google Scholar

CITATION		H INDEX		I-10 INDEX	
1 Total	1 (2018)	1 Total	1 (2018)	0 Total	0 (2018)

https://www.researchgate.net › R^G **ResearchGate**

Joyanto Roychoudhary
- Phd. registered Maulana Abul Kalam Azad University Of Technology
- M.Tech Research Scholar at National Institute of Technology Durgapur

Durgāpur, India
9.8 Research Interest Score
1 Citation
1 h-index

---

o   **1ˢᵗ Patent Published on: 13/10/2023.**
Title Of Invention: Artificial Intelligence Based system for prediction and prevention of kidney disease using Machine Learning Algorithms.
Published Design patent titled "Artificial Intelligence based system for prediction and prevention of kidney disease using machine learning algorithms" by Dr. Manash Chanda, Prof. Indrajit Das, Dr. Papiya Debnath, Dr. Swapnadip De, Prof. Sudipta Ghosh, Dr. Swarnil Roy, Prof. Subhrapratim Nath, Prof. Papiya Das, **Prof. Joyanto Roychoudhary**, Design application no 202331057524, Date of publication 13/10/2023.

o   **1ˢᵗ Published Book Chapter on 28/02/2025:by Joyanto Roychoudhary and Neeraj Kumar**
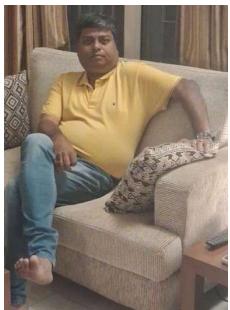Title Of Book: **Emerging Research Trends in Computer Science and Information Technology.** Title Of Book chapter: **Wavelets: A Mathematical Paradigm**
First Edition, Feb,2025, Bhumi Publishing, Nigave Khalasa, Kolhapur 416207, Maharashtra, INDIA,website: www.bhumipublishing.com,Contact Number: +91-9511266950, 7588577082
 Emerging Research Trends in Computer Science and Information Technology (ISBN: 978-93-48620-71-2) Editors Dr. Shivamurthaiah M Department of Computer Science and Dr. Avinash N Department of Computer Science and Engineering, APS College of Engineering, Bengaluru Dr. Praveen Kumar K Department of Computer Science, B. S. Channabasappa First Grade College, Engineering Brindavan College of Engineering, Bengaluru Mr. Pardeep Kumar Department of Mathematics, Guru Kashi University, Davanagere, Karnataka February 2025 Talwandi Sabo, Punjab.

o   IIP Book Series Editors:IIPV3EBS12_G17 Futuristic Trends in Electronics & Instrumentation Engineering, Editors: Dr. Chittajit Sarkar, PhD, Associate Professor, Asansol Engineering College,, Asansol, West Bengal, India. Dr. Rajib Biswas, PhD, Faculty, Physics, Tezpur University, Tezpur, Assam, India. Dr. Vijay Sharma, Ph D, Assistant Professor, Physics, Government Mahila Engineering College, Ajmer, Rajasthan, India. **Joyanto Roychoudhary, M.Tech, (Phd), Assistant Professor, Meghnad Saha Institute of Technology, Uchhepota, Kolkata, West Bengal, India. IIP ID: IIPER1675937466**

Teachers and administrators have an important relationship that often involves collaborating to make important decisions. We must explore how teachers and administrators work together to develop curricula, determine educational standards and establish parent engagement, and discover some reasons for collaborating.

Mr. Joyanto Roychoudhary graduated in Electronics and Communication Engineering from MBES College Of Engineering, Ambajogai in 2001. He obtained his M.Tech degree in Telecommunications from NIT, Durgapur, Deemed University. He is presently pursuing Ph. D in Engineering from ETCE Dept., Maulana Abul Kalam Azad University Of Technology(MAKAUT)since 2021.At present, he is working as an Assistant Professor in the Department of ECE, Meghnad Saha Institute of Technology since August 2019. He is a GraduateMember of IEEE and is currently a Member of the IEEE APS and MTT-S. Mr. Roychoudhary has reviewed quite a number of IEEE, Journals and conferences and also a reviewer of Reputed Journals like IJEE, IJEECS, IJ-ICT, Journal of Education and Learning (EduLearn), 3ICT2021, CSIT, IJRA-IAES, IAES International Journal of Robotics and Automation,BEEI,CMC, BEIESP and other SCI Journals. At present, he is also linked to various Editorial Boards such as IEEE, Medicon Open-Access, SCOPUS, SCOPIA, SYNC-SCI,IOP-Publishing to name a few. His current research interest span the Meta-Heuristic Optimization Algorithms,Phased Array,Microstrip Antennas and components,Wireless Networks and Spintronic Devices. He has been a "**Session Chair**" for the 1st IEEE International conference on Data Science and Network Security(ICDSNS-2023) organized by Kalpataru Institute Of Technology, Tiptur, Karnataka on 28-29th July, 2023. He has attended various workshops , FDP's , conferences , seminars and technical talks.

Address for Communication: Flat No: 1,Trisha, 1st Floor,
83, P.Majumdar Road, Indu Park, Near Ichche Marriage Hall,
Kol-700107, W.B.
Date of Birth: 17.10.1978
Father's Name: Mr. K.K. Roychoudhary,
Mob No: 94743-71895/83349-23046(Whatts-App),
PAN Number: AMPPR8364M
AADHAR Number: 4392-7117-7140
VOTER ID CARD Number: ZYR2025526
PASSPORT Number: R-5501676
PASSPORT Issuer: INDIA/KOLKATA
Qualifications: B.Engg(ECE)., M.Tech(ECE), Ph. D (Tech,ECE),Pursuing(Registered)
Official e.mail: joyanto.roychoudhary296@msit.edu.in/jroychoudhary@hertz.com/joyanto.roychoudhary@hertz.com
General e.mail: joyanto.roychoudhary296@gmail.com
Joyanto's Official LinkedIn Profile(contact):https://www.linkedin.com/in/joyanto-roychoudhary-37a434191?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3Bsx5nr3x%2FQdWYpdNoqQjXbA%3D%3D
Google Scholar Profile : Assistant professor of Electronics and communicationEngineering, Verified email at msit.edu.in. https://scholar.google.com/citations?user=Mg1U_koAAAAJ&hl=en.
Research Gate Profile:- https://www.researchgate.net/profile/Joyanto-Roychoudhary?ev=hdr_xprf
Employee Id: 14273
Web of Science ResearcherID: AFE-4378-2022/Web of Science ResearcherID: AFK-8065-2022
https://orcid.org/0000-0002-5920-1355/https://publons.com/a/1714869/
EDAS identifier: Meghnad saha Institute Of Technology-1771791/1695902
WEBPAGE LINK: https://sites.google.com/msit.edu.in/joyanto/home
Academia Personal Website Link: https://www.academia.edu/portfolio_creation_preview?provided_picture=2
Course-Era Profile Link: https://www.coursera.org/user/186e76714bd4a4db5b97dcba4f3e771d
In-Tech Open/Author Panel/My Profile Link: https://publish.intechopen.com/s/my-profile
Vidwan Profile Link: https://msit.irins.org/profile/239240
Links:

➢ EDUCATIONAL QUALIFICATIONS

1. Phd - 2021 Maulana Abul Kalam Azad University Of Technology, MAKAUT, Kolkata(5G Antenna Design, ECE, **THESIS TITLE: "Advanced Antenna Design for mm-Wave 5G applications"**) Phd. Registered: PHD/TECH/ECE004/2021. **Date of Enrolment: 18.11.2021/ Date of Registration: 24.08.2023**. Completed Coursework at Swayam/NPTEL: Scores:- Antennas:82%(ELITE+SILVER), Microwave: 72%(ELITE), Introduction to Research: 85%(Top 5%, ELITE+SILVER), Research Publication and Ethics(MAKAUT): 92%.

2. M.Tech - 2009 NIT Durgapur, Deemed University(Telecommunications, ECE) (CGPA-8.33/10)

3. B.ENGG - 2001 Dr. Babasaheb Ambedkar Marathwada University(ETCE) (1033/1500, 69% aggregate)

4. HSc(12th) -Physics, Chemistry , Mathematics, CBSE.(70%)

5. SSc(10th) - Physics, Chemistry , Mathematics, CBSE.(79%)

➢ Licenses & certifications

Python Data Structures Python Data Structures
CourseraCourseraIssued Sep 2021Issued Sep 2021Credential ID 5VQVM22Q4BMLCredential ID 5VQVM22Q4BML

Skills: Python (Programming Language) · Engineering · Machine LearningSkills: Python (Programming Language) · Engineering · Machine Learning

Programming for Everybody (Getting Started with Python)Programming for Everybody (Getting Started with Python)
CourseraCourseraIssued Aug 2021Issued Aug 2021Credential ID 5ZQYZHGX5BDCCredential ID 5ZQYZHGX5BDC

Skills: Python (Programming Language) · Engineering · Machine Learning
Skills: Python (Programming Language) · Engineering · Machine Learning

• IBM Data Science Professional Certificate• IBM Data Science Professional Certificate
IBMIBMIssued Oct 2021 · Expired Oct 2023Issued Oct 2021 · Expired Oct 2023
 Skills: Python (Programming Language) · Engineering · Machine Learning

- Completed the 1-month duration non-credit course on **"Embedded Hardware and Operating Systems" an online non-credit course authorized by EIT Digital and offered through Coursera**.Course commencement-02,July,2024/Course ending-31,July,2024. Grade achieved-95%. **Skills gained:**
- Operating Systems
- Computer Programming
- C Programming Language Family
- Computer Architecture
- Computer Programming Tools

➢ Certificate of Course Completion on **" CYBER SECURITY: BASIC CONCEPTS" offered by** "The Cyber Security, Center of Excellence, West Bengal Electronics Industry Development Corporation Limited(CS-CoE, WBEIDC Ltd., WEBEL". **SCORE ACHIEVED: 169.38/170(99.68%)Oct-2024**
Skills gained:
Module 1: Introduction to Cyber Security
Module 2: Data and Storage
Module 3: The Vulnerability Landscape
Module 4: Types of Attackers
Module 5: The weapons of cyber criminals
Module 6: Different Areas of Cyber Security
Module 7: Password management
Module 8: Best practices for emails, messages, attachments and links
Module 9: Safety tips for safe browsing
Module 10: Safe use of Social Media
Module 11: Safety in Online market place
Module 12: Security tips for online banking transactions & Debit/Credit cards
Module 13: Safety tips for Mobile phones
Module 14: Protecting your data and device
Module 15: Security best practices for organisations
Module 16: What to do after a cyber-attack

➢ Swayam/NPTEL Courses: "Design and Analysis of Algorithms (8-week course, Course Instructor- Dr. Madhavan Mukund, Chennai Mathematical Institute(CMI), IIT Chennai". **Score Achieved: 63%(Assignment: 25/25 + Proctored Exam: 37.5/75, 63/100,ELITE, July-Oct-2024)**

➢ **Swayam/NPTEL Courses: "Electromagnetic Theory (12-weeks course, Course Instructor- Dr. Pradeep Kumar,IIT Kanpur". Score Achieved: 72%(Assignment: 23.44/25 + Proctored Exam: 48.98/75, 72/100,ELITE, July-Oct-2024)**

➢ Completed the 1-month duration non-credit course on **"An Introduction to Software Engineering" an online non-credit course authorized by IBM and offered through Coursera**.Course commencement-04,Dec,2024/Course ending-03,Jan,2025. Grade achieved-100%.**Earner of a Badge in this course for securing High Grade**. **Skills gained:**

PROFESSIONAL EXPERIENCE

- Presently working as Assistant Professor in the department of ECE at Meghnad Saha Institute Of Technology(TIG- Group) from July,16,2019-till date. [Employee Id MSIT: 14273(TIG Group)]).
- Worked as Assistant Professor Grade-III in the department of ECE at B.P.Poddar Institute of Management and Technology from Jan,16,2017-July,16,2019.
- Assistant Professor at Neotia Institute of Technology Management and Science (Formerly ITME), Kolkata, since Nov.2010 to 06 Sep,2016 in the department of Electronics andCommunication Engineering.
- Served as Lecturer in Heritage Institute of Technology Kolkata in the department of Electronics and Communication Engineering, (Feb-Nov 2010)
- Promoted as a Lecturer in Dr. B.C. Roy Engineering college, Durgapur in the department of Electronics and Communication Engineering, (2006-2010)
- Served as aTech. Assistant in Dr. B.C. Roy Engineering college Durgapur in the department of Electronics and Communication Engineering, (2003-2006).

INDUSTRIAL EXPERIENCE
- Worked as a Sales Engineer in Vision Comptel (a subsidiary of Tata Honeywell, Kolkata) (Sep 2002-Feb 2003).
- Tech Support Engineer in Avid Communications (Bharti Telecom), Kolkata (Sep 2001-Sep 2002)
- Software Developer in Resolution Global Industries Pvt. Ltd. In .NET with C# and SQL-SERVER.Released on Dec 31st,2016 joined on September,2016.

Courses taught and laboratories taken:

Course Title	Year/sem/sec.
Odd-Wireless Communication(ECE)(Nitmas/Bppimt) Even:Mobile Computing. (ECE)(Nitmas)	Odd: 4th/7th/B Even: 4th/8th/B
Odd: Solid State Devices(ECE)(Bcrec/Nitmas) Even: EM Theory and Transmission Lines.(ECE)(Bppimt/Msit)	Odd: 2nd/3rd/A Even: 2nd/4th/B
Odd- Digital Electronics.(ECE/EEE)(Bcrec/Nitmas/Hit/Bppimt) Even: Digital Communication(ECE)(Bppimt)	Odd: 2nd/4th/B Even: 3rd/6th/A+B
Odd: Analog Communication(ECE)(Bppimt) Even: Communication Engg. And Coding Theory.(IT/CSE)(Nitmas/Bppimt)	Odd: 3rd/5th/B Even: 2nd/4th/CSE+IT.
Odd: RF and Microwave Engineering.(ECE)(Bppimt) Even: Information and Coding theory.(ECE)(Bcrec/Nitmas) Even:Power Electronics(ECE)(/Bcrec/Hit)	Odd: 4th/7th/B Even: 3rd/6th/A Even:3rd Year,6th Sem.
Odd: Microprocessors and Microcontrollers.(ECE/CSE/EE/IT)(Bppimt) Even: Electronic Measurement and Instrumentation.(ECE)**(Elective Paper)(Bppimt)**	Odd: 3rd/5th/A+B Even: 3rd/6th/B
Odd: Analog Electronics(EE)(Msit) Odd: Digital Electronics(IT)(Msit/Nitmas) Odd: Advanced Data Communication and Coding.(IT)**(Elective Paper)(Nitmas/Msit)** Odd:Analog and Digital Electronics(IT)(Msit) Even: Digital Electronics(EE).(Bcrec/Nitmas/Msit) Even: Analog Electronics(ECE).(Msit) Even : Audio and Speech Processing(CSE)**(Elective Paper)(Msit)**	Odd: 3rd/EE-A+B Odd: 3rd/IT Odd: 7th/IT Even: 4th/EE-B Even: 4th/ECE. Even : 8th/ECE
Odd: Electromagnetic Wave(ECE)(Msit) Odd: Speech and Audio Processing(ECE)**(Elective Paper)(Msit)** Odd:Analog Electronics(EE)(Msit) Odd:Analog and Digital Electronics(IT)(Msit)	Odd:3rd Year,5th Sem Odd: 3rd Year,5th Sem Odd:2nd Year,3rd Sem. Odd:2nd Year,3rd Sem.
Even: Digital Electronics(EE)MSIT. Even: Computer Networks(ECE)MSIT Even:Computer Organization(ECE)MSIT Even:Computer Architecture(ECE)MSIT	Even:2nd Year,4th sem.EE Even: 3rdYear ,6th sem.ECE Even:3rd year, 6th sem, ECE Even:3rd year, 6th sem, ECE
Odd: EM Wave(MSIT) Odd: Analog and Digital Electronics(CSE-A & B)(Msit)	Odd: 3rd year, 5th sem, ECE. Odd: 2nd year, 3rd sem, CSE.
Even: Antenna and Propagation Even: Microwave Integrated Circuits Even: Computer Networks Even: Computer Networks Lab(**Socket Programming in Python and Java base**)	Even: 4th year, 8th sem Even: 4th year, 8th sem Even: 3rd year, 6th sem. Even: 3rd year, 6th sem.
Even: Design and Analysis of Algorithms	Even: 2nd year, 4th sem
Odd: Electromagnetic Wave(ECE)(Msit) Odd: Digital Signal Processing(ECE)(Msit) Odd: Career Development Program(ECE)(Msit)(Embedded Systems) Odd: Nanoelectronics(ECE)(Msit) Odd: Analog and Digital Electronics.(IT, MSIT)	Odd:3rd Year,5th Sem Odd: 3rd Year,5th Sem Odd: 3rd Year,5th Sem Odd: 3rd Year,5th Sem Odd:2nd Year,3rd Sem.

Even: Operating Systems	Even: 3rd year, 6th sem.
Even: Design and Analysis of Algorithms	Even: 2nd year, 4th sem.
Even: Computer Networks Lab(**Socket Programming in Python and Java base**)	Even: 3rd year, 6th sem.
Even: Microprocessor Lab	Even: 2nd year, 4th sem.

➢ Committee Memberships at MSIT:

Member Of College(MSIT), Institute Innovation Council,MHRD,Govt. Of India.(MHRD-IIC,MSIT)
National Innovation and Start-up policy for students and Faculty-A guiding Framework for HEI's for Implementation. IIC INSTITUTE ID**: IC201912408**
Member of College(MSIT), Games and Sports Committee.(2020-2022)

Appointed as a Member of **MAR(**Mandatory Additional Requirement)(2020-2022) Committee(MSIT) with effect from 01.09.2020.For co-ordination and Execution of MAR as per the guidelines of affiliating University.

Appointed as a Assisting Member of **Central Examination Committee(MSIT)** with effect from 01.08.2020.

Appointed as a Assisting Member of **Central Routine Committee(MSIT)** with effect from 01.08.2020.

Appointed as a Assisting Member **of Training Placement Committee(TPCC)(MSIT)** with effect from 01.08.2020.

Appointed as a Member of **Central WebsiteCommittee**(MSIT) with effect from 01.08.2020.

Appointed as a Member of **Alumni Committee**(MSIT) with effect from 01.08.2021.

Innovation Ambassador, IIC MSIT.

Administrative Responsibilities:
- Invigilation for MAKAUT exam:

Odd: 4 (7/12, 8/12, 11/12, 14/12)

Even: 6 (24/5, 29/5 (E), 30/5, 31/5, 1/6, 2/6

- Invigilation for institute class test exam:
- Odd:

A) Class test 1 as allotted on 09/09/2017 & 12/09/2017.

B) Class test 2 as allotted on 7/11/2017 & 14/11/2017.

- Even:

A) Class test1 as allotted on 10/03/2018 & 13/03/2018.

B) Class test2 as allotted on 24/04/2018 & 25/04/2018.

- Question paper setting
- Model question paper for EC701 had been submitted to MAKAUT on 23/09/2017.
- Model question paper for EC701 had been submitted to MAKAUT on 04/10/2018.
- Odd:
- Question paper for class test1 for EC701 submitted on 31/08/2017.
- Question paper for class test 2 for EC701 submitted on 31/10/2017.
- Question paper for class test 1 for EC701 submitted on 31/09/2018.
- Question paper for class test 2 for EC701 submitted on 01/10/2018.
- Evaluation & marks submission
- Odd:
- Marks submitted for EC701 on 8/12/17.
- Marks submitted for ES-101 on 8/12/17.
- Marks submitted for EC701 on 10/12/18
- Even:
- Marks submitted for EC(EE)-695C on 26/5/17.
- Marks submitted for ES-201 on 29/5/18.

Odd:
- Evaluation of answer scripts for class test1 had been submitted on 15/09/2017.

- Evaluation of answer scripts for class test 2 had been submitted on 16/11/2017.
- Evaluation of answer scripts for class test1 had been submitted on 20/09/2018
- Evaluation of answer scripts for class test 2 had been submitted on 29/11/2018.
- Even:
- Evaluation of answer scripts for class test 1 had been submitted on 15/03/2018.
- Evaluation of answer scripts for class test 2 had been submitted on 27/05/2018.
- Invigilation Of West Bengal Joint Exam 2017/18.(WBJEE-2017/2018).
- Invigilation Of ISRO Exam 2017/18.(ISRO-2017/2018).
- Completed B.P.Poddar Institute Of Management and Tech. NBA Accreditation Process.(NBA Accredited Programs in BPPIMT:ECE,CSE,ITand EE.

At MSIT:-
- Invigilation Of West Bengal Joint Exam 2019.(WBJEE-2019).
- Appointed as an Expert for preparation of question Bank for the subject "Audio and Speech Processing" for the 8th semester ECE students.
- Invigilation of NEET-2020 Exam conducted by NTA on 13.09.2020(Sunday).
- Appointed as a Member of **MAR(**Mandatory Additional Requirement) Committee(MSIT) with effect from 01.09.2020.For co-ordination and Execution of MAR as per the guidelines of affiliating University.
- Appointed as a Assisting Member of **Central Examination Committee(MSIT)** with effect from 01.08.2020.
- Appointed as a Assisting Member of **Central Routine Committee(MSIT)** with effect from 01.08.2020.
- Appointed as a Assisting Member **of Training Placement Committee(TPCC)(MSIT)** with effect from 01.08.2020.
- Appointed as a Assisting Member of**Central Website Committee**(MSIT) with effect from 01.08.2020.
- Appointed as a Assisting Member of **Alumni Committee**(MSIT) with effect from 01.08.2021.
- *Member of College(MSIT), Games and Sports Committee.*
- Presently Involved in the College accreditation Process by the NBA.
- Appointed as Lead Faculty for various domain related subjects in University curriculum.
- Curriculum Developer for the 3rd Year, 5th sem B.Tech course Electromagnetic wave with course code EC 501.
- Invigilation Of West Bengal Joint Exam 2021.(WBJEE-2021) on 17.07.2021(Saturday).
- Invigilation Of JENPAS- 2021 Exam on 31.07.2021(Saturday).
- Invigilation Of ANM(R) & GNM-2021 Examination held on 22.08.2021(Sunday).
- Lab In-charge Electromagnetic wave Lab with course code EC 591 at MSIT.
- Lab In-charge Computer Networks Lab with course code EC 692 at MSIT.
- Invigilation Of JENPAS- 2022 Exam on 15.05.2022(Sunday).
- Invigilation Of CUET- 2022 Exam(online) on 15.07.2022(Friday)
- Assigned as Examiner for odd semester examinations 2022-23 as per details below:Name of paper : Electromagnetic Waves-EC501(5587)
- Assigned as Examiner for odd semester examinations 2022-23 as per details below:Name of paper : Analog and Digital Elecronics-ESC301(3442)
- You have been nominated by the Principal /Director of your college to act as the expert to prepare Question Bank with model answer for the Even semester Examination 2022-2023.
- The paper detail is mentioned below :
- Paper Code : **PE-EC801A**   UPID : **8298**
- Paper Name : **Antennas and Propagation**
- Invigilation Of JENPAS- 2023 Exam on 15.05.2022(Sunday).
- Invigilation Of ANM(R) & GNM-2023 Examination held on 22.08.2021(Sunday).
- Invigilation Of West Bengal Joint Exam 2021.(WBJEE-2024)
- Invigilation Of JENPAS- 2024 Exam
- Invigilation Of NEET- 2024 Exam

Project Guidance:

1. Avradita ,M.Tech(VLSI), MSIT Topic(Ongoing):"Vehicle Lane detection using Deep Learning model "
2. Line Following and Obstacle Avoiding Bot,ARPAN KUNDU, Roll No.14200319053,RITOBRATA MANDAL, Roll No.14200319046,SAPTARSHI CHAKRABORTY, Roll No.14200319055,Under the

Guidance of :Prof. Joyanto RoyChoudhary, Assistant Professor,Electronics and Communication Engineering Department,Meghnad Saha Institute of Technology ,Kolkata

3. A Novel Prototype Used To Combat The Potential Spread Of COVID-19 Disease Arkapriya Gupta[*1], Ruparna Bose[*2], Joyanto Roychoudhary[*3] [*1,2]Student, Electronics and Communication Engineering, Meghnad Saha Institute Of Technology, Kolkata, West Bengal, India. [*3]Faculty Advisor, Assistant Professor in the Department Of Electronics and Communication Engineering, Meghnad Saha Institute Of Technology, Kolkata, West Bengal, India

4. Bidirectional Visitor counter in OpenCV.

➢ Honours and Awards

1. Session Chair - 2023 1st IEEE International conference on Data Science and Network Security(ICDSNS-2023) organized by Kalpataru Institute Of Technology, Tiptur, Karnataka on 28-29th July, 2023

2. Rank in University/Institution:39; Rank in country: 77,659; Rank in Region/Asia: 398,886;World Rank: 1,342,242 - 2023 AD Scientific Index - World Scientists Rankings – 2023(Joyanto Roychoudhary)

3. Outstanding Scientist Award Presented to Dr. Joyanto Roy Choudhary Assistant Professor, Department of Electronics and Communication Engineering, Ruby General Hospital, West Bengal, India. - 2022 International Eminent Awards on Engineering, Science and Medicine

4. TOP 5% in Introduction to Research-Phd Coursework-Score-85%-8- weeks course - 2022 NPTEL/SWAYAM

5. Awarded Best Fellow Researcher in Respective Research Field - 2019 Vedant-Bangkok-2019 awards nomination sponsored by IARDO(Research Development Organization) Nomination cum Awardee Id: Vedant-Bangkok-2019 Award/IARDO/443

6. Awarded best researcher in the respective field - 2019 IARDO collaboration with 2nd International Award Conference on Research, Analyze, Communicate and Evaluate (Gurukul RACE- 2019' India) Nomination / Awardee ID: GIET/2019/IARDO/940

7. Served as a Member of TPC of **IICAIET 2022/2023/2024 IEEE International Conference on Artificial Intelligence in Engineering and Technology, Kota Kinabalu, Sabah (Hybrid Mode). https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10291424**

➢ **FDP and SDP Software Development Courses Completed under EICT Academy, IIT Kanpur:**

- Full Stack (FDP)
- Fundamentals of 'C++' Programming (SDP EICT)
- OOPs with Core Java (SDP EICT)
- Cloud Computing – AWS (SDP EICT)
- Deep Learning using TensorFlow and Keras (FDP EICT)
- Web Development using Angular (SDP EICT)

- App Development with Android (SDP EICT)
- Django Web Framework (SDP EICT)

➤ Software Development Courses Completed under Pantech E-Learning:

- Python Full Stack
- Java Full Stack
- APSSDC Certified Masterclass on ADVANCED PYTHON PROGRAMMING
- Web Development Full Stack using React JS.
- APSSDC Certified Masterclass on ARTIFICIAL INTELLIGENCE

➤ Software proficiency

Application Tools- SPICE,H-SPICE, MATLAB(R2017a and R2018a), Mathematica, Antenna Magus, Sintesis, CCS studio, Ansoft HFSS R20 Electromagnetics Suite, Cadence Virtuoso, Mentor graphics,Synopsis TCAD,Cilvako,IE3D,Simon(Single Electron Transistors,SEDs) ,Moses(Monte – Carlo single Electron simulator under Nanotechnology domain), NG-SPICE(Spintronics), Tinker-CAD.

· Operating Systems-   DOS, Windows, UNIX,LINUX, Raspberri Pi-3, Arduino.

· Languages-   C, FORTRAN,PASCAL,C++,C#,.NET,Python,OOPS with Core Java, AWS Cloud.

· Application Package - MS Office.

· Databases Known – Oracle 8i,Sql-Server,Developer 6i(for Application development),Visual Basic,Visual C/C++.

➤ Skills & Endorsements

1. Software Development
2. C# .NET
3. ASP.NET

➤ Industry Knowledge

1. Wireless Technologies
2. Wireless Networking
3. Machine Learning
4. Artificial Intelligence (AI)
5. Data Science
6. Data Mining
7. Android Development

➤ Tools & Technologies

1.   .NET Framework
2.   R
3.   Python Basics (Programming Language), Python Data Structures, Python with Django, Django Web Framework,Python Threads.
4.   AWS Cloud/IOT, Azure Cloud Integration, Dev-ops,OOPS with Core JAVA. App Development with Android.
5.   Node Red, Node.Js ,Angular Js   ,React Js/IOT, Web Development, Web Design Using Angular.
6. **MERN(MongoDB,Express,React and Node.js**) Full Stack Development.
·   Other Skills
1.   Pattern Recognition
2.   R coding and Python
3.   Cyber Security
4.   Data Science
5.   Computational Intelligence

➢   Research Domains

Antennas, 5G, Metaheuristic optimization, Microwave Theory, Microwave components, Wireless Communication, 5G Mobile networking, mm-Wave Advanced Antenna Design, 5G Beam Scanning Phased Arrays, Phased Scanning Arrays for 5G Base Stations and Mobile Handsets, Antennas on PCB, Vivaldi Arrays, Antipodal 5G Fermi Arrays.

➢ Publications

[1]. An Edge-Tapered Antipodal Beam Switching Antenna with 360° Azimuthal Beam Steering Joyanto Roychoudhary (1), Koushik Dutta (2), Anirban Chatterjee (2), Satyajit Chakrabarti (3), and Raj Mittra (4) (1) Dept. of ECE, Meghnad Saha Institute of Technology, Kolkata, India (joyanto.roychoudhary296@gmail.com) (2) Dept of ECE, Netaji Subhash Engineering College, Kolkata, India (koushikdutt@ieee.org) (3) The Society for Applied Microwave Electronics Engg.& Research, Kolkata, India (satyajit2.chak@gmail.com) (4) Dept of ECE, University of Central Florida, Orlando, USA & KAU EE Dept, Saudi Arabia (rajmittra@ieee.org) IEEE AP-S International symposium and ITNC-USNC-URSI Radio Science Meeting Conference Paper. Published in IEEE-Xplore, on 30, September,2024. **ISBN Information: Electronic ISBN:**979-8-3503-6990-8 **Print on Demand(PoD) ISBN:**979-8-3503-6991-5 **ISSN Information: Electronic ISSN:** 1947-1491 **Print on Demand(PoD) ISSN:** 1522-3965 Volume-979-8-3503-6990-8/24/\$31.00 ©2024 IEEE , Year 2024, Pages-1861-1862, **DOI:** 10.1109/AP-S/INC-USNC-URSI52054.2024.10685917, **Publisher:** IEEE, **Conference Location:** Firenze, Italy, **Date of Conference:** 14-19 July 2024, **Date Added to IEEE** *Xplore***:** 30 September 2024, **Published in:** 2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI), 2024 IEEE International Symposium on Antennas and Propagation and INC/USNC-URSI Radio Science Meeting (AP-S/INC-USNC-URSI) | 979-8-3503-6990-8/24/\$31.00 ©2024 IEEE | DOI: 10.1109/AP-S/INC-USNC-URSI52054.2024.10685917

[2] Linear Antenna Array Synthesis and Null Control for Wi-Max Applications for MIMO Channels using a Cognition based Improved Particle Swarm Optimization , Joyanto Roychoudhary, Koushik Dutta, Anirban Chatterjee in **Journal of Engineering and Technology Management** ISSN: 0923-4748 Scopus Indexed/UGC-CARE Group-II Journal and Multidisciplinary Journal(SCIE Journal), DOI: View_PDF_https://doi.org/20.14118/v74.2024.102260, Volume74 October–December 2024, Pg: 265-271. (**4725. JOURNAL OF ENGINEERING AND TECHNOLOGY MANAGEMENT, in SCIENCE CITATION INDEX EXPANDED(SCIE) - JOURNAL LIST 2024**), Journal DOI: https://doi.org/10.5281/zenodo.14196763

[3]. DESIGN AND DEVELOPMENT OF DUAL BAND ELECTRONIC SCANNING ARRAY FOR DUPLEX WIRELESS APPLICATIONS WITH HIGH GAIN ELLIPTICALLY POLARIZED AND BEAM SCANNING CAPABILITY WITH BUTLER MATRIX MULTIPLE BEAMFORMING Joyanto Roychoudhary, Koushik Dutta International Journal of creative research thoughts, IJCRT, UGC Approved Journal No: 49023 (18), UGC CARE Journal., Volume 11, Year 2023, Pages

[4]. Artificial Intelligence Based system for prediction and prevention of kidney disease using Machine Learning Algorithms Joyanto Roychoudhary Patent/Invention, Volume , Year 2023, Pages

[5]. Design and Development of a High Gain UWB Quasi-Conical beam 3- element Antenna based on the concept of Novel Fabry Perot Configuration Joyanto Roychoudhary Medicon Engineering Themes , Volume 4, Year 2023, Pages 01,**EDITORIAL**

[6]. A Novel Prototype to Maintain Physical Distancing in Public Transport to stop the spread of Covid19 Arkajyoti Mitra,Joyanto Roychoudhary IEEE Solid-State Circuit Society (SSCS) Kolkata Chapter , Volume , Year 2021, Pages

[7]. A Novel Simulation Study to Avoid the Covid-19 Potential Spread Problem Joyanto Roychoudhary,Arkapriya Gupta & Ruparna Bose IEEE Solid-State Circuit Society (SSCS) Kolkata Chapter , Volume , Year 2021, Pages

[8]. Linear High Gain Dual Band Notch Scanning Beam Circularly Polarized Smart Antenna Array for 2.4 GHz and 5.8 GHz UHF RFID Reader Application Without any Central Null using Multi-Feed Orthogonal ButtlerMatrix Beam Former Formulation Joyanto Roychoudhary AEM-2019, Pune, June – 2019, 7th International conference on research developments in applied science engineering and management, Volume , Year 2019, Pages

[9]. LINEAR ANTENNA ARRAY ADAPTIVE BEAMFORMING FOR SPACE-TIME SIGNAL PROCESSING USING HYBRID GENETIC ALGORITHMS APPLIED TO FADING CHANNELS. Joyanto Roychoudhary, Neeraj Kumar, Pushpendu Kanjilal Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org, Volume Volume 5 | Issue 8 | Year August-2018, Year 2018, Pages Page No: 581-587

[10]. Linear High Gain Dual Band Notch Scanning Beam Circularly Polarized Smart Antenna Array for 2.4 GHz and 5.8 GHz UHF RFID Reader Application Without any Central Null using Multi-Feed Orthogonal ButtlerMatrix Beam Former Formulation. Joyanto Roychoudhary In Scopus -ICME conference Warangal, Telangana, Volume , Year 2018, Pages

[11]. Development of Capacitive Sensor Signal Conditioning System for Angular Displacement Measurement using Timer IC LM555 and UFDC Sumitesh Majumder, Joyanto Roychoudhary and Tapan Kumar Maiti Journal of Measurement Science and Instrumentation. CNKI China Knowledge Resource Integrated Database, Volume Issue 1, Year 2018, Pages p49-54. 6p

[12]. Smart Antenna Array Adaptive Beamforming for Space-Time Signal Processing Using Hybrid Ga-Pso Culled Mutation Operator Using A Novel Adaptive Equalizer Applied to Fading Channels, IEEE-ICIETS,Mysuru. Joyanto Roychoudhary, Arindrajit Chaudhury,Neeraj Kr. Proceedings Of The 1st International

Conference on IEEE-ICIETS Mysuru, 2018.IEEE Bangalore Section. IEEE-XPLORE, Volume , Year 2018, Pages

[13]. PHASED ARRAY ANTENNA ADAPTIVE BEAMFORMING FOR SPACE-TIME SIGNAL PROCESSING USING HYBRID GENETIC ALGORITHMS WITH MUTATION OPERATOR APPLIED TO RAYLEIGH FADING CHANNELS;Cited By 1 in Scopus Indexed Journal. Joyanto Roychoudhary, Neeraj Kr., Pushpendu Kanjilal International Journal of Electronics and Communication Engineering and Technology (IJECET)., Volume Vol. 3, Issue. 9, Year 2018, Pages pp. 36-46

[14]. Linear Antenna Array Synthesis And Null Control for Wi-Max Applications using an Improved Particle Swarm Optimization Joyanto Roychoudhary,Pushpendu Kanjilal International Journal of Scientific & Engineering Research., Volume Vol. 8, Issue. 4, Year 2017, Pages pp. 1545-1553

[15]. Circular Array Pattern Synthesis using Particle Swarm Optimization Joyanto Roychoudhary International Journal of Innovation in Engineering and Management, Volume Vol. 4, Issue. 6, Year 2017, Pages pp. 44-49

[16]. MAGNETIC TUNNEL JUNCTION MODEL BASED UNIVERSAL NAND AND NOR LOGIC GATES Joyanto Roychoudhary,Sumitesh Majumdar,T.K. Maiti INTERNATIONAL JOURNAL OF ENGINEERING SCIENCES & RESEARCH TECHNOLOGY.(IJESRT)., Volume Vol. 6, Issue. 6, Year 2017, Pages pp. 46-50

[17]. Modeling and Validation of Magnetic Tunnel Junction Device Joyanto Roychoudhary,Sumitesh Majumdar,T.K. Maiti Journal of Measurement Science and Instrumentation., Volume Vol. 8, Issue. 3, Year 2017, Pages pp. 261-263

[18]. Linear antenna array synthesis and null control for Wi-Max applications using an improved particle swarm optimization , Proceedings of the 2nd National conference on IPC'17 SPIE student Chapter, BPPIMT. Joyanto Roychoudhary Proceedings of the 2nd National conference on IPC'17 SPIE student Chapter, BPPIMT., Volume , Year 2017, Pages

[19]. The Impact of Transformational Leadership on Individual Learning Moderated by Learning Behavior Joyanto Roychoudhary International Journal of Application or Innovation in Engineering and Management, Volume 6, Year 2017, Pages 38-43

[20]. , Linear antenna array synthesis and null control for Wi-Max applications using an improved particle swarm optimization Joyanto Roychoudhary Proceedings of the 2nd National conference on IPC'17 SPIE student Chapter, BPPIMT., Volume ISBN No: 978-81-922797-9-4., Year 2017, Pages

[21] Application of Improved Particle Swarm Optimization(IPSO) to Antenna Array Synthesis and Design Joyanto Roychoudhary Medicon Engineering Themes , Volume 4, Year 2024, Pages 01,EDITORIAL

[22] A Survey on Spintronic Devices: Magnetic Tunnel Junctions Joyanto Roy Choudhary*, Sumitesh Majumder and T K Maiti Department of Electronics and Communication Engineering, Meghnad Saha Institute of Technology, India *Corresponding Author: Joyanto Roy Choudhary, Department of Electronics and Communication Engineering, Meghnad Saha Institute of Technology, India. Received: November 22, 2024. Medicon Engineering Themes Volume 7 Issue 6 December 2024 Article Type: Editorial ISSN: 2834-7218.

[23] Graphene Nanoribbons: Joyanto Roychoudhary,Electronics and Communication Engineering, Meghnad Saha Institute of Technology, India *Corresponding Author: Joyanto Roy Choudhary, Department of Electronics and Communication Engineering, Meghnad Saha Institute of Technology, India. Received: Feb,2, 2025. Medicon Engineering Themes Volume 8 Issue 2 Feb,2025 Article Type: Editorial ISSN: 2834-7218.

[24] 1st Published Book Chapter on 28.02.2025: by Joyanto Roychoudhary and Neeraj Kumar Title Of Book: Emerging Research Trends in Computer Science and Information Technology. Title Of Book chapter: Wavelets: A Mathematical Paradigm

[25] Served as a Member of TPC of **IICAIET 2022/2023/2024 IEEE International Conference on Artificial Intelligence in Engineering and Technology, Kota Kinabalu, Sabah (Hybrid Mode).**
https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10291424

[26] **IIP Book Series Editors:IIPV3EBS12_G17 Futuristic Trends in Electronics & Instrumentation Engineering,** Editors: Dr. Chittajit Sarkar, PhD, Associate Professor, Asansol Engineering College,, Asansol, West Bengal, India. Dr. Rajib Biswas, PhD, Faculty, Physics, Tezpur University, Tezpur, Assam, India. Dr. Vijay Sharma, Ph D, Assistant Professor, Physics, Government Mahila Engineering College, Ajmer, Rajasthan, India. **Joyanto Roychoudhary, M.Tech, (Phd), Assistant Professor, Meghnad Saha Institute of Technology, Uchhepota, Kolkata, West Bengal, India. IIP ID: IIPER1675937466**

Personal Information

Date of Birth	: 17thOctober, 1978
Nationality	: Indian
Mother Tongue	: Bengali
Marital Status	: Un-Married
No. Of Children: :	:NIL

Strengths:

1. Creative, Curious, Consistent and Committed to work.
2.. Ability to successfully handle and deliver any task that is assigned to me despite the time constraints or resource crunch.
3. Eager to learn new things

I do hereby declare that all the above statements are true to the best of my knowledge**.**

Referees:

- Prof T K Maity,Professor ,Department of Instrumentation Engineering, Central Institute Of Technology(DEEMED to be University) , Kokrajhar,Assam, India.Phone: 9733965138.

- Prof. Dr. Asish K Mukhopadhyay, Group Director, S.R.Group of Institutions,Jhansi. Present Address: Flat No.- S-4,block-1,Airport Residency, 39/15 Maharaja NK Road, Birati,Kol-700 051.Mob: 94343-85282/7003355147.email:askm55@gmail.com.

   Mr. Joyanto Roychoudhary

Date: March, 20th,2025
Place: Kolkata