

**DR. SUMIT KUSHWAHA**  
*Curriculum Vitae*

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🌐: <https://www.linkedin.com/in/dr-sumit-kushwaha-790262234/>



### TEACHING EXPERIENCE

S. No.	Post Name	Department	Institute/ University	Time Period
1.	Assistant Professor	Computer Applications	University Institute of Computing, Chandigarh University, Mohali, India	07/02/2022 to till now
2.	Guest Faculty (Contract)	Electronics Engineering	Kamla Nehru Institute of Technology, Sultanpur, India	07/01/2021 to 05/02/2022
3.	Guest Faculty (Contract)	Electronics Engineering	Kamla Nehru Institute of Technology, Sultanpur, India	08/07/2013 to 08/05/2014
4.	Assistant Professor	Electronics Engineering	Azad Institute of Engineering & Technology, Lucknow, India	14/07/2012 to 31/05/2013
5.	Lecturer	Electronics Engineering	Azad Institute of Engineering & Technology, Lucknow, India	26/03/2010 to 31/07/2010

### RESEARCH EXPERIENCE

S. No.	Post Name	Department	Institute/ University	Time Period
1.	Research-cum-Teaching Fellow	Electronics Engineering	Kamla Nehru Institute of Technology, Sultanpur, India	09/05/2014 to 24/12/2020

### AWARDS AND HONORS

1. I have received “2019 Bangkok Award for Young Scientist” in International Association of Research and Developed Organization (IARDO), Bangkok, Thailand.
2. I have received “Most Profound Researcher and Professor of Technical Education in Uttar Pradesh Award 2019” in Pride of Indian Education Award 2019.
3. I have received “Best Young Scientist Award 2019” in IARE-2019.
4. I have received “Best Young Researcher Award 2018” in GECL-2018.
5. Certified Faculty with Grade “A”.
6. Ph.D. Research Fellowship by TEQIP.
7. M.Tech with Honours.

### ACADEMIC QUALIFICATIONS

S. No.	Degree Name	Subject	Institute/ University	Marks	Year
1.	Ph.D.	Electronics Engineering	Kamla Nehru Institute of Technology, Sultanpur, India	NA	2020
2.	M.Tech.	Electronics & Communication Engineering	Sam Higginbottom University of Agriculture, Technology, & Sciences, Prayagraj, India	91.77 %	2012

3.	B.Tech.	Electronics & Communication Engineering	Dr. A. P. J. Abdul Kalam Technical University, Lucknow, India	66.60 %	2009
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### EDUCATIONAL QUALIFICATIONS

S. No.	Degree Name	Subject	Institute/ University	Marks	Year
1.	Intermediate	PCM	Government Inter College, Prayagraj, India	63.40 %	2005
2.	High School	Science Group	Government Inter College, Prayagraj, India	67.17 %	2003

### PH.D. THESIS

- Topic: Study and Analysis of Speckle Noise Reduction Techniques for Ultrasound Images.  
Supervisor: Dr. Rabindra Kumar Singh

### M.TECH. THESIS

- Topic: Enhancement of Color Images without change in HUE and without GAMUT Problem.  
Supervisor: Prof. Arvind Kumar Jaiswal

### RESEARCH INTERESTS

1. Signal and Image Processing
2. Artificial Intelligence
3. Medical Image Processing
4. Next Generation Wireless Communication Systems.
5. Brian Imaging
6. Neuroscience of Yoga
7. Energy Harvesting

### PATENTS

1. “Development of Pipeline Inspection Robot” (Patent Application No.: 202041014971 A).  
(Date: 22/05/2020)  
(Author’s Name: L. Vijay Anand, J. Jayakumari, Abhishek Kumar, Pokkuluri Kiran Sree, E. Immanuvel Bright, K. Prasanna Lakshmi, M. V. Kishore, Srinivasa L. Chakravarthy, Sumit Kushwaha, S. Sivananthan, S. Gnanasekaran, M. Karthik, P. Viyakumar, and Vignesh T.)

### COURSE CERTIFICATES

1. “Introduction to Artificial Intelligence (AI)”, offered by IBM (completed on March 12<sup>th</sup>, 2022).

### EXPERT LECTURES

1. “Introduction to Programming with MATLAB”, on May 10<sup>th</sup>, 2021 at Invertis University, Bareilly, Uttar Pradesh, India.
2. “Basics of Image Processing using MATLAB”, on May 31<sup>st</sup>, 2021 at Invertis University, Bareilly, Uttar Pradesh, India.

## PHD STUDENTS GUIDED

Completed  
00

Ongoing  
01

## LIST OF PUBLICATIONS

### In SCI/SCIE/SCOPUS Journals

1. M. Vidhyalakshmi, K.Malarkodi, K.R. Shanthi, Gowtham S, L. Raja, **Sumit Kushwaha**, S Sandeep Kumar, Aravind T, Hunde Yegezu, "Implementation Of Serial Packet Logging Based Routing With Examine Spot Path Assigning Algorithm For Wireless Ad Hoc Network", HINDAWI, Wireless Communications and Mobile Computing, July, 2022, Impact Factor: 2.146, ISSN: 1530-8677, (Science Citation Indexed Expanded Journal) (Accepted)
2. D.Hemanand, Nilamadhab Mishra, G.Premalatha, Dinesh Mavaluru, Amit Vajpayee, **Sumit Kushwaha**, and Kibebe Sahile, "Applications of Intelligent Model to Analyze the Green Finance for Environmental Development in the Context of Artificial Intelligence", HINDAWI, Computational Intelligence and Neuroscience, volume 2022, pp. 1-8, July 2022, Impact Factor: 3.120, ISSN: 1687-5265, (Science Citation Indexed Expanded Journal)
3. Abha Singh, Rizwan Ahmad Khan, **Sumit Kushwaha**, and Tahani Alshenqeeti, "Roll of Newtonian and Non-Newtonian Motion in Analysis of Two-Phase Hepatic Blood Flow in Artery During Jaundice", HINDAWI, International Journal of Mathematics and Mathematical Sciences, volume 2022, pp. 1-10, July 2022, Impact Factor: 1.60, ISSN: 1687-0425, (Scopus Index Journal)
4. Abha Singh, **Sumit Kushwaha**, Maryam Alarfaj and Manoj Singh, "Comprehensive Overview of Backpropagation Algorithm for Digital Image Denoising", MDPI Electronics, Volume 11, Issue 10, pp. 1590, May, 2022, Impact Factor: 2.690, ISSN: 2079-9292, (Science Citation Indexed Expanded Journal).
5. **Sumit Kushwaha** and Rabindra Kumar Singh, "Optimization of the Proposed Hybrid Denoising Technique to Overcome Over-Filtering Issue", in Biomedical Engineering/Biomedizinische Technik, Volume 64, Issue 5, pp. 601–618, April, 2019, Impact Factor: 1.390, (Science Citation Indexed Expanded Journal).
6. **Sumit Kushwaha** and Rabindra Kumar Singh, "Robust Denoising Technique for Ultrasound Images by Splicing of Low Rank Filter and Principal Component Analysis.", in Biomedical Research, Volume 29, Issue 18, pp. 3444-3455, October, 2018, Impact Factor: 0.219, (Science Citation Indexed Expanded Journal).
7. **Sumit Kushwaha**, "An Efficient Filtering Approach for Speckle Reduction in Ultrasound Images", in Biomedical and Pharmacology Journal, Volume 10, Number 3, pp. 1355-1367, September, 2017, Impact Factor: 0.20, (Scopus Indexed Journal).
8. **Sumit Kushwaha**, Rabindra Kumar Singh, "Performance Comparison of Different Despeckled Filters for Ultrasound Images", in Biomedical and Pharmacology Journal, Volume 10, Number 2, pp. 837-845, June, 2017, Impact Factor: 0.20, (Scopus Indexed Journal).
9. **Sumit Kushwaha**, Rabindra Kumar Singh, "An Efficient Approach for Denoising Ultrasound Images using Anisotropic Diffusion and Teaching Learning Based Optimization", in Biomedical and Pharmacology Journal, Volume 10, Number 2, pp. 805-816, June, 2017, Impact Factor: 0.20, (Scopus Indexed Journal).

### In Other Indexed Journals

1. **Sumit Kushwaha**, "Structure for Synonymous Flow Label (SFL)", WSEAS Transactions on Computers, Volume 19, pp. 305 - 309, E-ISSN: 1109-2750, 2020, (Microsoft Academic Search System Indexed).
2. **Sumit Kushwaha**, "A Research on Corona Virus Disease 2019 (COVID-19)", International Research Journal of Engineering and Technology (IRJET), Volume-07, Issue-04, pp. 5578 – 5586, April, 2020, Impact Factor: 7.529, (Thomson Reuters Indexed).
3. **Sumit Kushwaha**, "Impact of COVID-19 Lockdown on Global Economy", in Cape Comorin: An International Multidisciplinary double-blind peer-reviewed Research Journal, Special Issue, Volume I Issue IV, pp. 11-12, May, 2020.

4. **Sumit Kushwaha**, “Mathematical Analysis of Robust Anisotropic Diffusion Filter for Ultrasound Images”, International Journal of Computer Sciences and Engineering, Volume 04, Issue 09, pp. 152-160, September, 2016, Impact Factor: 2.162, (Thomson Reuters Indexed).
5. **Sumit Kushwaha** and Rabindra Kumar Singh, “Study of Various Image Noises and Their Behavior”, International Journal of Computer Sciences and Engineering, Volume 03, Issue 03, pp. 13-17, March, 2015, Impact Factor: 3.022, (UGC Approved Journal).
6. **Sumit Kushwaha** and Rabindra Kumar Singh, “Study and Analysis of Various Image Enhancement Method using MATLAB”, International Journal of Computer Sciences and Engineering, Volume 03, Issue 01, pp. 15-20, January, 2015, Impact Factor: 3.022, (UGC Approved Journal).

#### **In International Conferences**

1. Sonika Gupta, Sushil Kumar Verma, Siddhartha Samanta, Sabyasachi Khatua and **Sumit Kushwaha**, “Prospect of Li-ion Battery in Designing Environment Friendly Hybrid Electric Vehicles”, International Conference on Advanced Earth Sciences & Foundation Engineering (ICASF-2022), organized jointly by University Center For Research & Development (UCRD) & Civil Engineering Department (CED), Chandigarh University, Punjab, India, pp. xx – xx, ISBN: xxxxxxxxx, June 2022. Conference date was June 23<sup>rd</sup>, 2022 to June 24<sup>th</sup>, 2022. (Scopus Indexed) (Accepted)
2. Abhijit Bhowmika, Sourav Saha, M. Saravana Kumar, Dipankar Dey and **Sumit Kushwaha**, “Non-Lubricated Dry Sliding Wear Activities of Al7075/Fly Ash Aluminium Matrix Composites by explore Grey Based Taguchi Optimization”, 1st International Conference on Technical Social Informatics: Challenges and Solutions (ICTSI: CS 2022), Jalandhar, Punjab, India, pp. xx – xx, ISBN: xxxxxxxxx, October 2022. Conference date was October 29<sup>th</sup>, 2022 to October 30<sup>th</sup>, 2022. (Scopus Indexed) (Accepted)
3. M. Mohan, Anuradha patil, S. Mohana, P. Subhashini, **Sumit Kushwaha**, S Manikandaprabu Pandian, “Multi-Tier Kernel for Disease Prediction using Texture Analysis with MR Images”, IEEE International Conference on Edge Computing and Applications (ICECAA 2022), at Gnanamani College of Technology, Namakkal, Tamilnadu, India, pp. xx – xx, ISBN: 978-1-6654-8232-5, October 2022. Conference date was October 13<sup>th</sup>, 2022 to October 15<sup>th</sup>, 2022. (Scopus Indexed) (Accepted)
4. Chandra Sekhar Kolli, Mutkule Prasad Raghunath, S. Meenakshi, K. Maheswari, Christopher Francis Britto, **Sumit Kushwaha**, “Efficient development of supervised learning algorithm for kidney stone prediction”, IEEE 5<sup>th</sup> International Conference on Inventive Computation Technologies (ICICT 2022), at Tribhuvan University, Nepal, pp. xx – xx, ISBN: 978-1-6654-0837-0, July 2022. Conference date was July 20<sup>th</sup>, 2022 to July 22<sup>nd</sup>, 2022. (Scopus Indexed) (Accepted)
5. Ankur Rai, Harsh Vikram Singh, **Sumit Kushwaha**, Praveen Mishra, and Piyush Pandey, “Noval & Robust Hybrid Watermarking Technique for Medical Images”, International Conference on Innovative Entrepreneurship and Startup, at Kamla Nehru Institute of Technology, Sultanpur, Uttar Pradesh, India, paper no. 51, pp. 246-250, ISBN: 978-93-86256-55-3, March, 2017. Conference date was March 3<sup>rd</sup> to March 4<sup>th</sup>, 2017. (Proceeding).
6. **Sumit Kushwaha**, “Mathematical Analysis of Backpropagation Algorithm for Digital Image Restoration”, 18<sup>th</sup> Annual cum 1<sup>st</sup> International Conference of Vijnana Parishad of India (VPI) on Computational and Integrative Sciences & International Symposium on Computational Biology, at Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh, India, paper no. MATH 04, pp. 20, 2015. Conference date was December 11<sup>th</sup> to December 14<sup>th</sup>, 2015. (Proceeding).
7. **Sumit Kushwaha** and Rabindra Kumar Singh, “Image Restoration using MLP Artificial Neural Networks: A Survey”, IEEE International Conference on Communication, Control and Intelligent System (CCIS – 2015), at GLA University, Mathura, India, ISBN: 978-1-4673-7541-2, pp. 166-172, 2015. Conference date was November 7<sup>th</sup> to November 8<sup>th</sup>, 2015. (IEEE Proceeding).
8. **Sumit Kushwaha**, “The Next Generation IP Based Packet Transmission for 6LoWPAN”, IEEE International Conference on Power, Control, and Embedded Systems (ICPES – 2012) at Motilal Nehru National Institute of Technology, Allahabad, India, 2012. Conference date was December 17<sup>th</sup> to December 19<sup>th</sup>, ISBN: 978-1-4673-1049-9, pp. 1-5, 2012. (Scopus Indexed).
9. **Sumit Kushwaha**, Vinay Kumar, and Sanjeev Jain, “Node Architectures and Its Deployment in Wireless Sensor Networks: A Survey”, SPRINGER International Conference on High Performance Architecture and

Grid Computing (HPAGC - 2011), CCIS 169, pp. 522–533, Springer-Verlag Berlin Heidelberg, 2011. Conference date was July 19<sup>th</sup> to July 20<sup>th</sup>, 2011. (Scopus Indexed).

#### **In National Conferences**

1. **Sumit Kushwaha**, “A Survey on Role of Artificial Intelligence”, National Conference on recent advancements in Computational Mathematics and Engineering Sciences (NCCMS 2019), at Vivekananda Institute of Technology, Jaipur, Rajasthan, India. Conference date was November 9<sup>th</sup> to November 10<sup>th</sup>, pp. 31, 2019. (Proceeding).
2. **Sumit Kushwaha**, “Feature Extraction with Convolutional Neural Networks – Deep Learning Approach”, National Conference on recent advancements in Computational Mathematics and Engineering Sciences (NCCMS 2019), at Vivekananda Institute of Technology, Jaipur, Rajasthan, India. Conference date was November 9<sup>th</sup> to November 10<sup>th</sup>, pp. 33, 2019. (Proceeding).
3. **Sumit Kushwaha**, “Study of Radiofrequency Pollution Effects in Cellular Wireless Networks”, National Conference on Research & Innovations in Electronics & Communication Engineering (RIECE – 2014), at NIET, Greater Noida, India. Conference date was October 10<sup>th</sup> to October 11<sup>th</sup>, paper no. 13, pp. 5, 2014. (Proceeding).
4. **Sumit Kushwaha**, “A Comprehensive Study of Various Lamps Through Energy Flow Diagrams (EFDs)”, Emerging Trends in Electrical and Electronics engineering (ETEEE – 2011), at KNIT, Sultanpur, India. Conference date was November 26<sup>th</sup> to November 27<sup>th</sup>, 2011. (Proceeding).

#### **BOOKS AND BOOK CHAPTERS**

1. **Sumit Kushwaha**, “Revised Edition Hybrid Methods for Speckle Noise Denoising in Ultrasound Images”, Notion Press, ISBN: 9781638507475, 2021.
2. **Sumit Kushwaha**, “Inspirational Stories”, Notion Press, 1<sup>st</sup> edition, ISBN: 9781638329145, 2021.
3. **Sumit Kushwaha**, “General Hindi”, Notion Press, 1<sup>st</sup> edition, ISBN: 9781638328421, 2021.
4. **Sumit Kushwaha**, “Enhancement of Color Images”, Notion Press, 1<sup>st</sup> edition, ISBN: 9781638063209, 2021.
5. **Sumit Kushwaha**, “Hybrid Methods for Speckle Noise Denoising in Ultrasound Images”, Notion Press, 1<sup>st</sup> edition, ISBN: 9781638062097, 2021.
6. **Sumit Kushwaha**, “Corona Ko Mil Kar Harana Hai”, COVID – 19 Pandemic Poems, Cape Comorin Publisher, Kanyakumari, volume V, 1<sup>st</sup> edition, ISBN: 978-93-88761-62-8, 2020.
7. **Sumit Kushwaha**, “Relationship”, COVID – 19 Pandemic Poems, Cape Comorin Publisher, Kanyakumari, volume II, 1<sup>st</sup> edition, ISBN: 978-93-88761-25-3, 2020.
8. **Sumit Kushwaha**, “Save Us, Hey Mahadev!”, COVID – 19 Pandemic Poems, Cape Comorin Publisher, Kanyakumari, volume II, 1<sup>st</sup> edition, ISBN: 978-93-88761-25-3, 2020.
9. **Sumit Kushwaha**, “Artificial Intelligence Fundamentals for Intelligent Market Analysis”, Paradigms of New Age Marketing, National Press Associates, pp. 79 – 86, ISBN: 978-93-85835-66-7, 2019.

#### **ADMINISTRATIVE/ ACADEMIC POST HELD**

##### **University Level**

1. Worked as Center Controller in Uttar Pradesh State Entrance Examination (UPSEE – 2014) at Faculty of Engineering, Kamla Nehru Institute of Physical and Social Sciences (KNIPSS), Sultanpur, 2014.
2. Jury Member, Smart India Hackathon (SIH) 2022 at Chandigarh University, India on March 28<sup>th</sup>, 2022.
3. Jury Panelist, South Indian ASDF Awards (SIAA) 2022 at Bangalore, Karnataka, India on April 2<sup>nd</sup>, 2022.

#### **MEMBERSHIP OF PROFESSIONAL SOCIETIES**

1. Internet Society (ISOC) Professional Member (ID: 66704 (Global)).
2. World Academy of Science, Engineering and Technology (WASET) Member.
3. Universal Association of Computer and Electronics Engineers (UACEE) Member (ID: SM10100052727)
4. International Society for Research and Development (ISRDR) Lifetime Member (ID: M4150901089).
5. Academic Society of Science Engineering & Technology (ASSET) Member (ID: AM1706S004).
6. International Association of Engineers (IAENG) Member (ID: 190948).
7. IAENG Society of Artificial Intelligence.

8. IAENG Society of Computer Science.
9. IAENG Society of Electrical Engineering.
10. IAENG Society of Internet Computing and Web Services.
11. IAENG Society of Imaging Engineering.
12. IAENG Society of Wireless Networks.
13. International Society of Intraoperative Radiation Therapy (ISIRT) Member.
14. International Forensic Sciences (IFS) Member (ID: IFS/VM/2017-7277).
15. International Society for Development and Sustainability (ISDS) - Society Japan - Member (ID: M172663).
16. PHI Book Club Lifetime Member (ID: 18042822165873925).
17. Science and Information (SAI) Organization Member.
18. Academic Society of Science Engineering & Technology (ASSET).
19. Chronicle Manager (IEEE Madras Section).
20. Society of Digital Information and Wireless Communications (SDIWC) Member (ID: 27793)
21. International Association of Academic Plus Corporate (IAAC) Society Member (ID: 20IND641025A249).

### **CONFERENCES/ WORKSHOP ORGANISED**

1. Organized a Special session “Advancement in Engineering, Computer Science and Applications” in International Conference on Data Science and Information System (ICDSIS - 2022). Conference date was July 29<sup>th</sup>, 2022 to July 30<sup>th</sup>, 2022 (Scopus Indexed).
2. Organized a Special session “Social Media Technologies, Communication, and Informatics” in 1<sup>st</sup> International Conference on Technical Social Informatics: Challenges and Solutions (ICTSI: CS 2022). Conference date was October 29<sup>th</sup>, 2022 to October 30<sup>th</sup>, 2022 (Scopus Indexed).

### **EDITORIAL BOARD MEMBER AND REVIEWER**

1. Editorial Board Member and Reviewer, World Academy of Science, Engineering and Technology (WASET), Scientific and Technical Committee & Editorial Review Board on Electronics and Communication Engineering.
2. Reviewer of Neural Networks, ELSEVIER (The Official Journal of the International Neural Network Society, European Neural Network Society & Japanese Neural Network Society), (Science Citation Indexed Journal).
3. Reviewer of IEEE Transactions on Multimedia, IEEE (Science Citation Indexed Journal).
4. Reviewer of IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control (TUFFC), IEEE (Science Citation Indexed Journal).
5. Reviewer of Scientia Iranica, International Journal of Science and Technology (Science Citation Indexed Expanded Journal).
6. Reviewer of Advances in Mechanical Engineering (AIME) Journal, SAGE Publishing (Science Citation Indexed Expanded Journal).
7. Reviewer of Association for Computing Machinery – Computing Surveys (ACM – CSUR) Journal, (Science Citation Indexed Journal).
8. Reviewer of BioMedical Engineering OnLine Journal, Bio Medical Central (BMC) Publishing, Part of Springer Nature (Science Citation Indexed Expanded Journal).
9. Reviewer of Biomedical Research, Allied Academies Journals (Science Citation Indexed Expanded Journal).
10. Reviewer of Biomedical and Pharmacology Journal (BPJ), Oriental Scientific Publishing Company (Scopus Indexed Journal).
11. Reviewer of International Journal of Electrical and Computer Engineering (IJECE), official publication of the Institute of Advanced Engineering and Science (IAES) (Scopus Indexed Journal).
12. Reviewer and Chaired a Technical Paper Presentation Session “Paper Presentations – Track 1 – Computing” of 1<sup>st</sup> International Conference on Computing, Analytics & Networks (ICAN 2017) which is organized by Chitkara University, Rajpura, Punjab in collaboration with Computer Society of India (CSI), IEEE, and the Institution of Electronics and Telecommunication Engineers (IETE). Conference date was October 27, 2017 to October 28, 2017.
13. Reviewer of National Conference on Image Processing, Computing, Communication, Networking and Data Analytics (NCICCNDA-2018) which is organized by Department of Computer Science and Engineering, GSSS Institute of Engineering and Technology for Women. Conference date was April 28<sup>th</sup>, 2018.

14. Reviewer of Biosciences, Biotechnology Research Asia Journal (Directory of Science Indexed Journal).
15. Reviewer of International Journal of Engineering Research & Technology (IJERT), Reviewer ID: IJERTREW1694.
16. Editorial Advisory Board Member and Reviewer, Elixir International Journal (formerly Elixir Online Journal), Reviewer ID: 1481271393.
17. Editorial Board Member and Reviewer, International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), (Thomson Reuters Indexed Journal).
18. Reviewer, Materials Science Research India, an International peer-reviewed research journal (Directory of Science Indexed Journal).
19. National Advisory Committee (NAC) Member, International Conference on Advances & Practices in Electrical Engineering (ICAPE 2018), Organized by Department of Electrical Engineering KDK College of Engineering, Nagpur in association with Institute for Engineering Research and Publication. Conference date was March 8, 2018 to March 9, 2018.
20. National Advisory Committee Member, 2<sup>nd</sup> International Conference on Advances in Computing Applications (ICACA – 2018), organized by Rao Bahadur Y Mahabaleswarappa Engineering College (RYMEC), Ballari, Karnataka. Conference Date was April 25<sup>th</sup> to April 26<sup>th</sup>, 2018.
21. Editorial Board Member, Assistant Editor of International Journal of Academic Research and Development journal, Member ID: AKINIK/LM/472 (SCIRUS Indexed Journal).
22. Reviewer of Second IEEE International Conference on Power Electronics, Intelligent Control and Energy systems (ICPEICES 2018) which is organized by Electrical Engineering Department, Delhi Technological University, Govt. of NCT, Bawana Road, Delhi-110042. Conference date was October 22, 2018 to October 24, 2018.
23. Reviewer of first International Conference on Emerging Technology in Modeling and Graphics (IEMGRAPH 2018) which is organized by Institute of Engineering & Management, Kolkata. Conference date is September 6, 2018 to September 7, 2018.
24. Reviewer of European Journal of Electrical Engineering and Computer Science, EUROPA Publishing (CrossRef Indexed Journal).
25. Reviewer of European Journal of Engineering Research and Science, EUROPA Publishing (CrossRef Indexed Journal).
26. Reviewer of 10<sup>th</sup> International Conference on Intelligent Human Computer Interaction (IHCI) – 2018, which is organized by Indian Institute of Information Technology (IIIT) Allahabad, Uttar Pradesh, India. Conference date was December 7, 2018 to December 9, 2018.
27. Reviewer of Current Trends in Signal Processing (CTSP), an International peer-reviewed research journal.
28. Reviewer of Journal of Biomedical Imaging and Bioengineering, Allied Academies Journals.
29. Organizing Committee Member, International Conference on Recent Trends in Automation–2018 (ICRTA'18), organized by Vasireddy Venkatadri Institute of Technology (VVIT), Guntur, Andhra Pradesh, India and Institute for Engineering Research and Publication (IFERP). Conference date was November 15<sup>th</sup> to November 16<sup>th</sup>, 2018.
30. Organizing Committee Member, International Conference on Applied Sciences, Engineering, Technology and Management (ICASETM-18), organized by Institute for Engineering Research and Publication (IFERP), Bangalore. Conference date was November 24<sup>th</sup> to November 25<sup>th</sup>, 2018.
31. Organizing Committee Member, 5<sup>th</sup> International Conference on Recent Trends in Computing (ICRTC-18), organized by SRM Institute of Science and Technology, Modinagar, Ghaziabad and Institute for Engineering Research and Publication (IFERP). Conference Date was December 27<sup>th</sup> to December 28<sup>th</sup>, 2018.
32. International Technical Program Committee Member, 2019 International Conference on Computer, Software, Modeling and Simulation (CSMS2019), co-sponsored by Webster University, United States of America, and University of Toronto, Canada, etc. Conference was held in Sanya, China and date was January 20<sup>th</sup> to January 21<sup>st</sup>, 2019.
33. International Technical Program Committee Member, 2019 International Conference on Energy, Power, Environment and Computer Application (ICEPECA2019). Conference was held in Wuhan, China and date was January 20<sup>th</sup> to January 21<sup>st</sup>, 2019.
34. International Technical Program Committee Member and Reviewer, 2019 International Conference on Electronical, Mechanical and Materials Engineering (ICE2ME2019). Conference was held in Wuhan, China and date was January 20<sup>th</sup> to January 21<sup>st</sup>, 2019.
35. Technical Program Committee Member, 3<sup>rd</sup> International Conference on Advances in Computing and Data Sciences (ICACDS) 2019, organized by Inderprastha Engineering College, Ghaziabad, Uttar Pradesh, India. Conference date was April 12<sup>th</sup> to April 13<sup>th</sup>, 2019.

36. International Technical Program Committee Member, 2019 International Conference on Advanced Material Research and Processing Technology (AMRPT2019). Conference was held in Wuhan, China and date was July 19<sup>th</sup> to July 20<sup>th</sup>, 2019.
37. International Advisory Committee Member, 4<sup>th</sup> International Conference on Recent Challenges in Engineering and Technology (ICRCET-19), organized by Annamacharya Institute of Technology & Sciences, Tirupathi, Andhra Pradesh, India. Conference date was January 30<sup>th</sup> to January 31<sup>st</sup>, 2019.
38. Reviewer, 23<sup>rd</sup> World Multi Conference on Systemics, Cybernetics and Informatics (WMSCI) 2019. Conference was held in Orlando, Florida, USA. Conference date was July 6<sup>th</sup> to July 9<sup>th</sup>, 2019.
39. National Program Committee Member, First International Conference on Sustainable Technologies for Computational Intelligence 2019 (ICTSCI—2019), organized by Sri Balaji College of Engineering and Technology, Jaipur, Rajasthan, India. Conference date was March 29<sup>th</sup> to March 30<sup>th</sup>, 2019.
40. International Advisory Committee Member and Reviewer, International Conference on Machine Intelligence and Signal Processing (MISP-2019), organized by Indian Institute of Information Technology, Allahabad, Prayagraj, Uttar Pradesh, India. Conference date was September 7<sup>th</sup> to September 10<sup>th</sup>, 2019.
41. International Advisory Committee Member and Reviewer, International Conference on Intelligent Computing & Smart Communication (ICSC) 2019, organized jointly by THDC-Institute of Hydropower Engineering and Technology (Constitute Institute of Uttrakhand Technical University), New Tehri Uttarakhand, India and School of Engineering, Cochin University of Science and Technology, Cochin, Kerala, India. Conference date was April 20<sup>th</sup> to April 21<sup>st</sup>, 2019.
42. International Scientific Committee Member and Reviewer, 9<sup>th</sup> International conference on Research in Engineering, Science and Technology (9<sup>th</sup> RESTCONF) 2019. Conference was held in 8 Bis Rue de la Fontaine au Roi – 75011, Paris, France. Conference date was April 19<sup>th</sup> to April 21<sup>st</sup>, 2019.
43. Editorial Board Member and Reviewer, International Journal of Latest Research in Image Processing (IJLRIP).
44. General Chairs Committee Member and Reviewer, 2019 International Conference on Computer Science, Communications and Big Data (CSCBD2019). Conference was held in Beijing, China. Conference date was March 24<sup>th</sup> to March 25<sup>th</sup>, 2019.
45. Technical Program Committee Member and Reviewer, International Conference on Emerging Trends in Information Technology- 2019 (ICETIT-2019). Conference was organized by Institute of Information Technology and Management, Janakpuri, Delhi, India. Conference date was June 21<sup>st</sup> to June 22<sup>nd</sup>, 2019.
46. Reviewer, 4<sup>th</sup> International Conference on Information and Network Technologies (ICINT 2019). Conference was held in Suzaku Campus, Ritsumeikan University, Kyoto, Japan. Conference date was May 25<sup>th</sup> to May 27<sup>th</sup>, 2019.
47. Reviewer, IEEE 1<sup>st</sup> International Conference on Energy, Systems and Information Processing (ICESIP 2019). Conference was organized by Department of Electronics and Communication Engineering, Indian Institute of Information Technology Design and Manufacturing Kancheepuram (IIITDM Kancheepuram), Chennai, India. Conference date was July 4<sup>th</sup> to 6<sup>th</sup>, 2019.
48. Reviewer, 4<sup>th</sup> International Conference on Information Systems Engineering (ICISE2019). Conference was held in Shanghai, China. Conference date was May 4<sup>th</sup> to 6<sup>th</sup>, 2019.
49. International Advisory Committee Member and Reviewer, International Conference on Intelligent Computing and Smart Communication Technologies (ICSCT 2019). Conference was organized by Department of Electronics and Communication Engineering, Anurag Group of Institutions, Venkatapur (V), Ghatkesar (M), Medchal District, Hyderabad, Telangana, India. Conference date was July 26<sup>th</sup> to July 27<sup>th</sup>, 2019.
50. International Technical Program Committee Member and Reviewer, 2019 International Conference on Materials Science and Manufacturing (MSM2019). Conference was held in Wuhan, China. Conference date was June 23<sup>rd</sup> to June 24<sup>th</sup>, 2019.
51. International Scientific Committee Member and Reviewer, 2019 International Conference on Education Reform, Management Innovation and Social Science (ERMIS2019). Conference was held in Beijing, China. Conference date was March 24<sup>th</sup> to March 25<sup>th</sup>, 2019.
52. International Scientific Committee Member and Reviewer, 2019 International Conference on Applied Mathematics, Modeling, Simulation and Optimization (AMMSO2019). Conference was held in Guilin, China. Conference date was April 21<sup>st</sup> to April 22<sup>nd</sup>, 2019.
53. International Scientific Committee Member and Reviewer, 2019 International Conference on Artificial Intelligence, Control and Automation Engineering (AICAE2019). Conference was held in Wuhan, China. Conference date was June 23<sup>rd</sup> to June 24<sup>th</sup>, 2019.
54. Reviewer, IEEE Journal of Biomedical and Health Informatics (Science Citation Indexed Journal).
55. Reviewer, Oriental Journal of Computer Science and Technology (Publons Indexed Journal).
56. Reviewer, IEEE Transactions on Biomedical Engineering (TBME) (Science Citation Indexed Journal).



57. International Program Committee Member and Reviewer, 28<sup>th</sup> International Conference on Artificial Neural Networks (ICANN 2019). Conference was held in Munich, Germany. Conference date was September 17<sup>th</sup> to September 19<sup>th</sup>, 2019.
58. Reviewer, 4<sup>th</sup> International Conference on Soft Computing: Theory and Applications (SoCTA-2019). Conference was organized by National Institute of Technology, Patna, Bihar, India. Conference date was December 27<sup>th</sup> to December 29<sup>th</sup>, 2019.
59. International Advisory Committee Member and Reviewer, Indo-Taiwan International Conference on Computing, Analytics and Networks (ICAN 2020). Conference was jointly organized by Chitkara University, India and National Chung Cheng University, Taiwan. Conference date was February 7<sup>th</sup> to February 8<sup>th</sup>, 2020 at National Chung Cheng University, Taiwan and February 14<sup>th</sup> to February 15<sup>th</sup>, 2020 at Chitkara University, India.
60. International Technical Program Committee Member, 2019 International Conference on Social Science, Economics and Management Research (SSEMR2019). Conference was held in Hangzhou, China. Conference date was May 26<sup>th</sup> to May 27<sup>th</sup>, 2019.
61. International Scientific Committee Member and Reviewer, 2019 International Conference on Modeling, Simulation and Big Data Analysis (MSBDA2019). Conference was held in Wuhan, China. Conference date was June 23<sup>rd</sup> to June 24, 2019.
62. Reviewer and Chaired in two Presentation Sessions, 10<sup>th</sup> International Conference on Computing, Communication and Networking Technologies (ICCCNT) 2019. Conference was organized at Indian Institute of Technology Kanpur (IITK), Kalyanpur, Kanpur, Uttar Pradesh, India. Conference date was July 6<sup>th</sup> to July 8<sup>th</sup>, 2019.
63. Reviewer, 3<sup>rd</sup> International Conference on Computer Science and Application Engineering (CSAE 2019). Conference was held in Sanya, China. Conference date was October 22<sup>nd</sup> to October 24<sup>th</sup>, 2019.
64. International Technical Committee Member and Reviewer, 2019 2<sup>nd</sup> International Conference on Digital Medicine and Image Processing (DMIP 2019). Conference was held in Shanghai, China. Conference date was November 13<sup>th</sup> to November 15<sup>th</sup>, 2019.
65. International Technical Committee Member and Reviewer, 2019 International Conference on Applied Mathematics, Modeling, Simulation and Statistics (AMMSS2019). Conference was held in Wuhan, China. Conference date was July 19<sup>th</sup> to July 21<sup>st</sup>, 2019.
66. International Scientific Committee Member and Reviewer, 2019 2<sup>nd</sup> International Conference on Electrical and Electronic Engineering (EEE2019). Conference was held in Hangzhou, China. Conference date was May 26<sup>th</sup> to May 27<sup>th</sup>, 2019.
67. International Scientific Committee Member and Reviewer, 2019 International Conference on Computer, Wireless Communication and Signal Processing (CWCSPP2019). Conference was held in Wuhan, China. Conference date was July 19<sup>th</sup> to July 21<sup>st</sup>, 2019.
68. International Advisory Board Chairs and Reviewer, International Conference on Information Technology and Management for the Sustainable Development (ICITMSD-2019). Conference was held in Uttaranchal Institute of Management Uttaranchal University, Dehradun, Uttarakhand, India. Conference date was August 9<sup>th</sup> to August 10<sup>th</sup>, 2019.
69. International Scientific Committee Member and Reviewer, 2019 International Conference on Modeling, Analysis, Simulation Technologies and Applications (MASTA2019). Conference was held in Hangzhou, China. Conference date was May 26<sup>th</sup> to May 27<sup>th</sup>, 2019.
70. International Programme Committee Member and Reviewer, International Conference on Networks and Cryptology (NetCrypt). Conference was held in School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi, India. Conference date was June 14<sup>th</sup> to June 16<sup>th</sup>, 2019.
71. Reviewer, International Conference on Power, Control and Communication Infrastructure 2019 (ICPCCI2019). Conference was held in Institute of Infrastructure, Technology, Research and Management (IITRAM), Ahmedabad, Gujarat, India. Conference date was July 4<sup>th</sup> to July 5<sup>th</sup>, 2019.
72. Reviewer, American Journal of Artificial Intelligence (Electronic Journals Library Indexed Journal).
73. Reviewer, 6<sup>th</sup> International Conference on Microelectronics, Circuits and Systems (Micro 2019). Conference was held in Amity University, Kolkata, New Town, Kolkata, West Bengal, India. Conference date was July 6<sup>th</sup> to July 7<sup>th</sup>, 2019.
74. International Scientific Committee Member and Reviewer, 2019 International Conference on Management, Economics and Social Science (ICMESS2019). Conference was held in Changsha, China. Conference date was August 30<sup>th</sup> to August 31<sup>st</sup>, 2019.
75. International Committee Member, 2019 4<sup>th</sup> International Conference on Humanities Science, Management and Education Technology (HSMET 2019). Conference was held in Singapore. Conference date was June 21<sup>st</sup> to June 23<sup>rd</sup>, 2019.
76. Reviewer, Global AI Congress 2019. Conference was held in Bose Institute (Basu Bigyan Mandir, Sec V, Salt Lake), Kolkata, West Bengal, India. Conference date was September 12<sup>th</sup> to September 14<sup>th</sup>, 2019.

77. National Technical Program Committee Member, International Conference on Intelligent System and Smart Computing 2020 (ICISSC 2020). Conference was held in MVP'S Karmaveer Baburao Thakare College of Engineering, Nasik, Maharashtra, India. Conference date was January 17<sup>th</sup> to January 18<sup>th</sup>, 2020.
78. International Advisory Board member, Global Innovations and Scientific Research (GISR) Foundation, Sector-63, Noida, U. P., India.
79. International Scientific Committee Member and Reviewer, 2019 International Conference on Civil Engineering, Mechanics and Materials Science (CEMMS2019). Conference was held in Changsha, China. Conference date was August 30<sup>th</sup> to August 31<sup>st</sup>, 2019.
80. International Scientific Committee Member and Reviewer, 2019 International Conference on Energy, Environmental and Civil Engineering (EECE2019). Conference was held in Wuhan, China. Conference date was June 23<sup>rd</sup> to June 24<sup>th</sup>, 2019.
81. "Bentham Science Ambassador" (India), International Journal of Sensors, Wireless Communications and Control (Scopus Indexed Journal).
82. National Technical Programme Committee Member and Reviewer, 2019 Fifth International Conference on Image Information Processing (ICIIP-2019). Conference was held in Jaypee University of Information Technology, Wagnaghat, District Solan, Near Shimla, Himachal Pradesh, India. Conference date was November 15<sup>th</sup> to November 17<sup>th</sup>, 2019.
83. International Technical Program Committee Member, 2019 International Conference on Advanced Education, Management and Humanities (AEMH2019). Conference was held in Wuhan, China. Conference date was July 19<sup>th</sup> to July 21<sup>st</sup>, 2019.
84. International Technical Program Committee Member, 2019 5<sup>th</sup> International Conference on Education Reform and Modern Management (ERMM2019). Conference was held in Shanghai, China. Conference date was September 22<sup>nd</sup> to September 23<sup>rd</sup>, 2019.
85. Editorial Board Member and Reviewer, Electronics & Communication Engineering Open Access Open Journal (ECEOAOJ), SOAOJ publishing, USA.
86. National Advisory Committee Member and Reviewer, International Conference on Future Communication & Computing Technology (ICFCCT-19). Conference was held in Meerut Institute of Engineering & Technology, Uttar Pradesh, India. Conference date was July 17<sup>th</sup> to July 18<sup>th</sup>, 2019.
87. International Technical Programme Committee Member and Reviewer, International Conference on Recent Trends in IoT and Blockchain (ICRTIB-2019). Conference was held at the Department of Computer Science and Engineering, GIET University, Gunupur-765022, Odisha. Conference date was October 19<sup>th</sup> to October 20<sup>th</sup>, 2019.
88. Reviewer of IET Image Processing Journal (Science Citation Indexed Expanded Journal).
89. Reviewer of International Journal of Imaging Systems and Technology (Science Citation Indexed Expanded Journal).
90. International Scientific Committee Member and Reviewer, 2019 2<sup>nd</sup> International Conference on Education Reform, Management and Applied Social Science (ERMSS2019). Conference was held in Xiamen China. Conference date was October 27<sup>th</sup> to October 28<sup>th</sup>, 2019.
91. Reviewer, Journal of Intelligent & Fuzzy Systems (Science Citation Indexed Expanded Journal).
92. International Advisory Committee Member and Reviewer, Journal of Intelligent Manufacturing (Science Citation Indexed Expanded Journal).
93. Reviewer, IEEE Signal Processing Letters (Science Citation Indexed Expanded Journal).
94. Reviewer, IEEE Transactions on Biomedical Engineering (Science Citation Indexed Expanded Journal).
95. Reviewer, IEEE Access (Science Citation Indexed Expanded Journal).
96. International Scientific Committee Member, 2019 2<sup>nd</sup> International Conference on Environment, Climate Change and Sustainable Development (ECCSD2019). Conference was held in Shanghai, China. Conference date was September 22<sup>nd</sup> to September 23<sup>rd</sup>, 2019.
97. International Technical Programme Committee Member and Reviewer, 5<sup>th</sup> International Conference on Information Systems Engineering (ICISE 2020). Conference was held at The University of Manchester, Manchester, UK. Conference date was May 15<sup>th</sup> to May 17<sup>th</sup>, 2020.
98. International Technical Programme Committee Member and Reviewer, 2020 International Conference on Big Data in Management (ICBDM 2020). Conference was held at The University of Manchester, Manchester, UK. Conference date was May 15<sup>th</sup> to May 17<sup>th</sup>, 2020.
99. International Technical Programme Committee Member and Reviewer, 1<sup>st</sup> International Conference on Innovation in Electrical Power Engineering, Communication and Computing Technology (IEPCCT – 2019). Conference was held at Institute of Technical Education and Research, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India. Conference date was December 13<sup>th</sup> to December 14<sup>th</sup>, 2019.

100. Reviewer, 3<sup>rd</sup> International Conference on Innovative Computing and Communication (ICICC-2020). Conference was held at Shaheed Sukhdev College of Business Studies (University of Delhi), Dr. K.N. Katju Marg Rohini Sector 16, PSP Area IV, New Delhi, India. Conference date was February 21<sup>st</sup> to February 23<sup>rd</sup>, 2020.
101. International Technical Programme Committee Member and Reviewer, 2019 6<sup>th</sup> NAFOSTED Conference on Information and Computer Science (NICS- 2019). This conference was sponsored by IEEE, IEEE Vietnam and organized by the National Foundation for Science and Technology Development (NAFOSTED) of Vietnam. Conference was held at Posts and Telecommunications Institute of Technology, Hanoi, Hanoi city, Vietnam. Conference date was December 12<sup>th</sup> to December 13<sup>th</sup>, 2019.
102. International Scientific Committee Member and Reviewer, 2019 International Conference on Computer Science, Communications and Multimedia Engineering (CSCME2019). Conference was held in Shanghai, China. Conference date was September 22<sup>nd</sup> to September 23<sup>rd</sup>, 2019.
103. Reviewer, 2020 4<sup>th</sup> International Conference on Modelling, Simulation and Applied Mathematics (MSAM2020). Conference was held in Wuhan, China. Conference date was January 11<sup>th</sup> to January 13<sup>th</sup>, 2020.
104. International Technical Programme Committee Member and Reviewer, 2019 International Conference on Biotechnology and Medical Engineering (ICBME2019). Conference was held in Beijing, China. Conference date was November 24<sup>th</sup> to November 25<sup>th</sup>, 2019.
105. Reviewer, 2019 International Conference on Computational Modeling, Simulation and Optimization (CMSO2019). Conference was held in Beijing, China. Conference date was November 24<sup>th</sup> to November 25<sup>th</sup>, 2019.
106. International Scientific Committee Member and Reviewer, 2019 2<sup>nd</sup> International Conference on Mathematics, Modeling and Simulation Technologies and Applications (MMSTA2019). Conference was held in Xiamen, China. Conference date was October 27<sup>th</sup> to October 28<sup>th</sup>, 2019.
107. International Scientific Committee Member and Reviewer, 2020 2<sup>nd</sup> International Conference on Advanced Control, Automation and Artificial Intelligence (ACAAI 2020). Conference was held in Wuhan, China. Conference date was January 11<sup>th</sup> to January 13<sup>th</sup>, 2020.
108. International Technical Programme Committee Member and Reviewer, 3<sup>rd</sup> International Conference on Computer Applications and Information Security (ICCAIS) 2020. Conference was held in Riyadh, Kingdom of Saudi Arabia. Conference date was March 19<sup>th</sup> to March 21<sup>st</sup>, 2020.
109. International Technical Programme Committee Member and Reviewer, International Conference on Innovative Trends in Computer and Communication Engineering (ITCE'2020) 2020. Conference was held in Aswan, Egypt. Conference date was February 8<sup>th</sup> to February 9<sup>th</sup>, 2020.
110. Reviewer, 2019 International Conference on Artificial Intelligence, Information Processing and Cloud Computing (AIIPCC2019). Conference was held in Sanya, China. Conference date was December 19<sup>th</sup> to December 21<sup>st</sup>, 2019.
111. International Technical Programme Committee Member and Reviewer, 2<sup>nd</sup> International Conference on Communication, Network and Artificial Intelligence (CNAI 2019) 2019. Conference was held in Guangzhou, China. Conference date was December 27<sup>th</sup> to December 29<sup>th</sup>, 2019.
112. International Technical Programme Committee Member and Reviewer, 2019 International Conference on Smart Applications, Communications and Networking (SmartNets): Big Data Analytics and Machine Learning. Conference was held in the beautiful city of Sharm El Sheik, Egypt. Conference date was December 17<sup>th</sup> to December 19<sup>th</sup>, 2019.
113. International Technical Programme Committee Member and Reviewer, 10<sup>th</sup> IEEE International Conference on Intelligent Systems IS'20, 2020. Conference was held in St. St. Constantine & Helena Resort, Varna, Bulgaria. Conference date was June 26<sup>th</sup> to June 28<sup>th</sup>, 2020.
114. Technical Programme Committee Member and Reviewer, Fourth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2019). Conference was held in Udaipur, Rajasthan, India. Conference date was December 13<sup>th</sup> to December 14<sup>th</sup>, 2019.
115. Reviewer, 4<sup>th</sup> International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE-2019). Conference was held in Harper Mangkubumi Hotel, Yogyakarta, Indonesia. Conference date was November 20<sup>th</sup> to November 21<sup>st</sup>, 2019.
116. Keynote Speaker and Reviewer, 2020 3<sup>rd</sup> International Conference on Energy and Power Engineering (EPE2020). Conference was held in Shanghai, China. Conference date was September 20<sup>th</sup> to September 21<sup>st</sup>, 2020.
117. Reviewer, 2019 International Conference on Medicine, Bioengineering and Artificial Intelligence (MBAI2019). Conference was held in Guangzhou, China. Conference date was December 27<sup>th</sup> to December 29<sup>th</sup>, 2019.

118. International Scientific Committee Member, 2019 International Conference on Energy, Power and Environmental Science (EPES2019). Conference was held in Beijing, China. Conference date was November 24<sup>th</sup> to November 25<sup>th</sup>, 2019.
119. National Advisory Committee Member, International Conference on Recent Trends in Electrical, Electronic and Computer Science Engineering (ICEECS-20). Conference was held in Uma Nath Singh Institute of Engineering and Technology, Deokali, Uttar Pradesh, India. Conference date was January 10<sup>th</sup> to January 11<sup>th</sup>, 2020.
120. International Technical Programme Committee Member and Reviewer, 6<sup>th</sup> Annual International Conference on Network and Information Systems for Computers (ICNISC2020). Conference was held in Wuhan, China. Conference date was April 17<sup>th</sup> to April 18<sup>th</sup>, 2020.
121. Reviewer, 2019 International Conference on Mechatronics, Control and Automation Engineering (ICMCAE 2019). Conference was held in Guangzhou, China. Conference date was December 27<sup>th</sup> to December 29<sup>th</sup>, 2019.
122. Reviewer, 2019 4<sup>th</sup> International Conference on Computational Modeling, Simulation and Applied Mathematics (CMSAM 2019). Conference was held in Guangzhou, China. Conference date was December 27<sup>th</sup> to December 29<sup>th</sup>, 2019.
123. International Technical Programme Committee Member and Reviewer, 2020 International Conference on Applied Mechanics, Materials and Civil Engineering (ICAMMCE2020). Conference was held in Shanghai, China. Conference date was September 20<sup>th</sup> to September 21<sup>st</sup>, 2020.
124. International Scientific Committee Member and Reviewer, 2020 International Conference on Biomedicine, Bioinformation and Intelligent Computing (BBIC2020). Conference was held in Hangzhou, China. Conference date was April 12<sup>th</sup> to April 13<sup>th</sup>, 2020.
125. International Technical Programme Committee Member and Reviewer, 2020 International Conference on Computer Science, Engineering and Applications (ICCSEA). Conference was held in Department of Computer Science and Engineering, GIET University, Gunupur – 765022, Odisha, India. Conference date was March 13<sup>th</sup> to March 14<sup>th</sup>, 2020.
126. International Conference Technical Committee Member, 2020 International Conference on Advanced Education, Management and Information Technology (AEMIT2020). Conference was held in Shanghai, China. Conference date was March 22<sup>nd</sup> to March 23<sup>rd</sup>, 2020.
127. International Conference Technical Committee Member, 2019 International Conference on Computer Science, Communication and Network Security (CSCNS2019). Conference was held in Sanya, China. Conference date was December 22<sup>nd</sup> to December 23<sup>rd</sup>, 2019.
128. International Scientific Committee Member and Reviewer, 2020 2<sup>nd</sup> International Conference on Computer Modeling, Simulation and Algorithm (CMSA2020). Conference was held in Beijing, China. Conference date was June 21<sup>st</sup> to June 22<sup>nd</sup>, 2020.
129. National Organizing Committee Member and Reviewer, International Conference on Technological Innovations in Engineering and Management (ICTIEM-20). Conference was held in Noida, India. Conference date was March 20<sup>th</sup> to March 21<sup>st</sup>, 2020.
130. Keynote Speaker and Reviewer, 2020 2<sup>nd</sup> International Conference on Electronical, Mechanical and Materials Engineering (ICE2ME2020). Conference was held in Xiamen, China. Conference date was December 20<sup>th</sup> to December 21<sup>st</sup>, 2020.
131. Reviewer, 2020 3<sup>rd</sup> International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA2020). Conference was held in Xiamen, China. Conference date was November 15<sup>th</sup> to November 16<sup>th</sup>, 2020.
132. Reviewer, 2020 International Conference on Electronics, Automation and Communication Engineering (EACE2020). Conference was held in Hangzhou, China. Conference date was July 19<sup>th</sup> to July 20<sup>th</sup>, 2020.
133. Reviewer, 2020 2<sup>nd</sup> International Conference on Computer, Communications and Mechatronics Engineering (CCME2020). Conference was held in Xiamen, China. Conference date was December 20<sup>th</sup> to December 21<sup>st</sup>, 2020.
134. Reviewer, 2020 2<sup>nd</sup> International Conference on Energy, Power, Environment and Computer Application (ICEPECA2020). Conference was held in Beijing, China. Conference date was November 22<sup>nd</sup> to November 23<sup>rd</sup>, 2020.
135. Reviewer, 4<sup>th</sup> International Conference on Computer Science and Application Engineering (CSAE 2020). Conference was held in Sanya, China. Conference date was October 20<sup>th</sup> to October 22<sup>nd</sup>, 2020.
136. International Technical Programme Committee Member and Reviewer, 2<sup>nd</sup> International Conference on Industrial Control Network and System Engineering Research (ICNSER2020). Conference was held in Kuala Lumpur, Malaysia. Conference date was June 19<sup>th</sup> to June 20<sup>th</sup>, 2020.
137. Reviewer, IET Signal Processing (Science Citation Indexed Expanded Journal).

138. International Technical Programme Committee Member, 8<sup>th</sup> Annual International Conference on Geo-Spatial Knowledge and Intelligence (GSKI 2020). Conference was held in Xi'an, Shaanxi, China. Conference date was December 18<sup>th</sup> to December 19<sup>th</sup>, 2020.
139. International Scientific Committee Member and Reviewer, 2020 International Conference on Mechanics, Civil and Materials Engineering (MCME2020). Conference was held in Hangzhou, China. Conference date was April 12<sup>th</sup> to April 13<sup>th</sup>, 2020.
140. International Advisory Committee Member, International Academy of Science, Technology, Engineering and Management (IASTEM).
141. National Technical Programme Committee Member and Reviewer, 1<sup>st</sup> International Conference on Green Technology for Smart City and Society (GTSCS-2020). Conference was held in Institute of Technical Education and Research, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India. Conference date was August 13<sup>th</sup> to August 14<sup>th</sup>, 2020.
142. International Technical Committee Member and Reviewer, 2020 International Conference on Mechanical, Computer, Electrical Engineering-MCEE2020. Conference was held in Xiamen, China. Conference date was April 15<sup>th</sup> to April 16<sup>th</sup>, 2020.
143. International Scientific Committee Member and Reviewer, 2020 International Conference on Bioengineering, Clinical Medicine and Artificial Intelligence (BCMAI2020). Conference was held in Beijing, China. Conference date was June 21<sup>st</sup> to June 22<sup>nd</sup>, 2020.
144. International Scientific Committee Member and Reviewer, 2020 International Conference on Intelligent Computing, Communication and Data Engineering (ICCD 2020). Conference was held in Beijing, China. Conference date was November 22<sup>nd</sup> to November 23<sup>rd</sup>, 2020.
145. International Scientific Committee Member and Reviewer, 2021 3<sup>rd</sup> International Conference on Computer Modeling, Simulation and Algorithm (CMSA2021). Conference was held in Changsha, China. Conference date was February 2<sup>nd</sup> to February 3<sup>rd</sup>, 2021.
146. International Technical Committee Member and Reviewer, 2020 3<sup>rd</sup> International Conference on Digital Medicine and Image Processing (DMIP 2020). Conference was held in Ritsumeikan University, Kyoto, Japan. Conference date was November 6<sup>th</sup> to November 9<sup>th</sup>, 2020.
147. International Technical Committee Member and Reviewer, 2021 6<sup>th</sup> International Conference on Green Materials and Environmental Engineering (GMEE2021). Conference was held in Changsha, China. Conference date was February 2<sup>nd</sup> to February 3<sup>rd</sup>, 2021.
148. Keynote Speaker and Reviewer, 2021 3<sup>rd</sup> International Conference on Electrical and Electronic Engineering (EEE 2021). Conference was held in Changsha, China. Conference date was February 2<sup>nd</sup> to February 3<sup>rd</sup>, 2021.
149. International Scientific Committee Member and Reviewer, 2021 2<sup>nd</sup> International Conference on Energy, Power and Environmental System Engineering (ICEPESE2021). Conference was held in Shanghai, China. Conference date was July 4<sup>th</sup>, 2021 to July 5<sup>th</sup>, 2021.
150. International Technical Committee Member and Reviewer, 2021 International Conference on Environment, Earth Science and Intelligent Information Systems (EESIIS2021). Conference was held in Guangzhou, China. Conference date was September 17<sup>th</sup>, 2021 to September 18<sup>th</sup>, 2021.
151. Programme Committee Member and Reviewer, 4<sup>th</sup> International Conference on Advanced Informatics for Computing Research (ICAICR-2020). Conference was held in Gurugram, Haryana, India. Conference date was December 26<sup>th</sup>, 2020 to December 27<sup>th</sup>, 2020.
152. International Technical Committee Member and Reviewer, 2021 International Conference on Modeling, Simulation and Optimization: Technologies and Engineering Applications (MSOTEA2021). Conference was held in Beijing, China. Conference date was April 11<sup>th</sup>, 2021 to April 12<sup>th</sup>, 2021.
153. International Scientific Committee Member and Reviewer, 2021 4<sup>th</sup> International Conference on Energy and Power Engineering (EPE2021). Conference was held in Guangzhou, China. Conference date was September 17<sup>th</sup>, 2021 to September 18<sup>th</sup>, 2021.
154. Reviewer, 2021 3<sup>rd</sup> International Conference on Energy, Power, Environment and Computer Application (ICEPECA2021). Conference was held in Xiamen, China. Conference date was December 17<sup>th</sup>, 2021 to December 18<sup>th</sup>, 2021.
155. International Technical Committee Member and Reviewer, 2021 International Workshop on Environmental Science and Renewable Energy Engineering (ESREE2021). Programme was held in Beijing, China. Conference date was April 11<sup>th</sup>, 2021 to April 12<sup>th</sup>, 2021.
156. International Technical Committee Member and Reviewer, 2020 2<sup>nd</sup> International Conference on Computer Science, Communication and Network Security (CSCNS2020). Programme was held in Sanya, China. Conference date was December 22<sup>nd</sup>, 2020 to December 23<sup>rd</sup>, 2020.
157. Reviewer of Multimedia Tools and Applications, SPRINGER (Science Citation Indexed Journal).
158. Reviewer of IET Science, Measurement & Technology, IET (Science Citation Indexed Journal).
159. Reviewer of IET Communications, IET (Science Citation Indexed Journal).

160. Reviewer of IGI Global: International Academic Publisher, IGI (Science Citation Indexed Journal).
161. Editorial Board Member, International Journal of Engineering Research in Electronics and Communication Engineering (Thomson Reuters Indexed Journal).
162. Keynote Speaker and Reviewer, 2021 3<sup>rd</sup> International Conference on Computer, Communications and Mechatronics Engineering (CCME2021). Programme was held in Xiamen, China. Conference date was December 17<sup>th</sup>, 2021 to December 18<sup>th</sup>, 2021.
163. International Technical Committee Member and Reviewer, 2022 7<sup>th</sup> International Conference on Green Materials and Environmental Engineering (GMEE 2022). Conference was held in Changsha, China. Conference date was January 16<sup>th</sup>, 2022 to January 17<sup>th</sup>, 2022.
164. International Technical Committee Member and Reviewer, 2021 2<sup>nd</sup> International Conference on Robotics and Intelligent Control (ICRIC 2021). Conference was held in Hong Kong. Conference date was November 25<sup>th</sup>, 2021 to November 27<sup>th</sup>, 2021.
165. National Scientific Committee Member and Reviewer, International Conference on Emerging Electrical Systems and Control (ICEESC-2K21). Conference was organized by Sethu Institute of Technology, Virudhunagar, Tamil Nadu in Association with IFERP (Institute For Engineering Research and Publication). Conference date was May 6<sup>th</sup>, 2021 to May 7<sup>th</sup>, 2021.
166. Reviewer, 29<sup>th</sup> International Conference on Artificial Neural Networks (ICANN 2020). Conference was held in Bratislava, Slovakia. Conference date was September 15<sup>th</sup> to September 18<sup>th</sup>, 2020.
167. Reviewer, 30<sup>th</sup> International Conference on Artificial Neural Networks (ICANN 2021). Conference was held online in Bratislava, Slovakia. Conference date was September 14<sup>th</sup> to September 17<sup>th</sup>, 2021.
168. International Technical Science Member and Reviewer, 2021 International Conference on Wireless Communications, Networking and Applications (WCNA2021). Conference was held online in Berlin, Germany. Conference date was December 17<sup>th</sup>, 2021 to December 19<sup>th</sup>, 2021.
169. International Technical Committee Member and Reviewer, 2022 2<sup>nd</sup> International Conference on Cloud Computer, IoT and Intelligence System (CCIIS2022). Conference was held in Beijing, China. Conference date was March 6<sup>th</sup>, 2022 to March 7<sup>th</sup>, 2022.
170. Reviewer of IEEE Aerospace & Electronics Systems Magazine (Science Citation Indexed Journal).
171. International Scientific Committee Member and Reviewer, 2021 International Conference on Modern Management and Education Research (MMER2021). Conference was held in Shanghai, China. Conference date was July 4<sup>th</sup>, 2021 to July 5<sup>th</sup>, 2021.
172. International Scientific Committee Member and Reviewer, 2022 4<sup>th</sup> International Conference on Computer Modeling, Simulation and Algorithm (CMSA2022). Conference was held in Beijing, China. Conference date was March 6<sup>th</sup>, 2022 to March 7<sup>th</sup>, 2022.
173. International Scientific Committee Member and Reviewer, 2021 International Conference on Artificial Intelligence, Big Data and Mechatronics (AIBDM2021). Conference was held in Guangzhou, China. Conference date was September 17<sup>th</sup>, 2021 to September 18<sup>th</sup>, 2021.
174. National Program Committee Member and Reviewer, 5<sup>th</sup> International Conference on Advanced Informatics for Computing Research (ICAICR-2021). Conference was held in Gurugram, Haryana. Conference date was December 18<sup>th</sup>, 2021 to December 19<sup>th</sup>, 2021.
175. Reviewer of IEEE Transactions on Systems, Man and Cybernetics: Systems, IEEE (Science Citation Indexed Journal).
176. Reviewer, 1<sup>st</sup> International Conference on Information System and Information Technology 2022 (1<sup>st</sup> ICISIT 2022). Conference was held in Yogyakarta, Indonesia. Conference date was July 27<sup>th</sup>, 2022 to July 28<sup>th</sup>, 2022.
177. International Technical Committee Member and Reviewer, 2<sup>nd</sup> International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS). Conference was held in Yogyakarta, Indonesia. Conference date was November 5<sup>th</sup>, 2022 to November 6<sup>th</sup>, 2022.
178. Reviewer, International Conference on Mobile Networks and Wireless Communications (ICMNC-2021). Conference was held in Karnataka, India. Conference date was December 3<sup>rd</sup>, 2021 to December 4<sup>th</sup>, 2021.
179. Reviewer of Digital Signal Processing, ELSEVIER (Science Citation Indexed Journal).
180. Reviewer of Computational Intelligence and Neuroscience, HINDAWI (Science Citation Indexed Journal).
181. Reviewer, 2022 International Conference on Applied Social Science and Humanities Research (ASSHR2022). Conference was held in Shenzhen, China. Conference date was July 17<sup>th</sup>, 2022 to July 18<sup>th</sup>, 2022.
182. Reviewer of International Journal for Numerical Methods in Biomedical Engineering, WILEY (Science Citation Indexed Journal).
183. Reviewer of Journal of Current Science and Technology (JCST), Rangsit University, Thailand (Scopus Indexed Journal).

184. Technical Program Committee Member and Reviewer, 9<sup>th</sup> International Conference on Signal Processing and Integrated Networks (SPIN 2022). Conference was held in Amity University, Noida- Delhi NCR, India. Conference date was August 25<sup>th</sup>, 2022 to August 26<sup>th</sup>, 2022.
185. International Program Committee Member and Reviewer, 31<sup>st</sup> International Conference on Artificial Neural Networks (ICANN 2022). Conference was held in Bristol, UK. Conference date was September 6<sup>th</sup>, 2022 to September 9<sup>th</sup>, 2022.
186. Member of Reviewer Board, International Multiconference of Engineers and Computer Scientists (IMECS) (SCOPUS Indexed Conference).
187. Member of Reviewer Board, World Congress on Engineering (WCE) (SCOPUS Indexed Conference).
188. International Technical Program Committee Member and Reviewer, 2022 International Conference on Wireless Communications, Networking and Applications (WCNA2022). Conference was held online in Nanjing, Jiangsu, China. Conference date was November 25<sup>th</sup>, 2022 to November 27<sup>th</sup>, 2022.
189. Reviewer, International Conference on Ambient Intelligence in Health Care (ICAIHC-2022). Conference was organized by Dept. of Computer Application, Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha, India. Conference was held online in Bhubaneswar, Odisha, India. Conference date was April 15<sup>th</sup>, 2022 to April 16<sup>th</sup>, 2022.
190. Reviewer, IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE-2022). Conference was organized by the Ballari Institute of Technology and Management, Ballari, India. Conference was held online in Ballari, India. Conference date was April 23<sup>rd</sup>, 2022 to April 24<sup>th</sup>, 2022.
191. International Technical Program Committee Member and Reviewer, 2022 International Conference of Science and Information Technology in Smart Administration (2022 ICSINTESA). Conference was held online in Bali, Indonesia. Conference date was November 10<sup>th</sup>, 2022 to November 11<sup>th</sup>, 2022.
192. Reviewer, ICBELC 2022: International Conference on Business Economics, Literature, and Culture 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
193. International Technical Program Committee Member, International Conference on Early Childhood Development 2023. Conference was held online in Singapore, Asia. Conference date was March 11<sup>th</sup>, 2023 to March 12<sup>th</sup>, 2023.
194. Reviewer, International Conference on Economics, Business and Social Sciences (ICEBSS 2022). Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
195. Reviewer, ICCH 2022: International Conference On Culture And History 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
196. Reviewer, ICDAPID 2022: International Conference On Drug Abuse Prevention And Illegal Drugs 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
197. Reviewer, ICBLS 2022: International Conference On Business, Law And Social Science 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
198. International Technical Program Committee Member, ICEECST 2022: International Conference On Electrical, Electronics And Computer Science Technology 2022. Conference was held online in Singapore, Asia. Conference date was March 11<sup>th</sup>, 2023 to March 12<sup>th</sup>, 2023.
199. Reviewer, ICECD 2022: International Conference On Early Childhood Development 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
200. International Technical Program Committee Member, International Conference On Education, Learning And Training 2023 (ICELT 2023). Conference was held online in Singapore, Asia. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2023.
201. International Technical Program Committee Member, International Conference On Emerging Issues In Economics, Social Sciences And Business Management 2023 (ICEIESSBM 2023). Conference was held online in Singapore, Asia. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2023.
202. International Technical Program Committee Member, International Conference On Early Childhood Development 2023 (ICECD 2023). Conference was held online in Singapore, Asia. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2023.
203. Reviewer, International Conference On Education, Learning And Training 2022 (ICELT 2022). Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.
204. Reviewer, ICMM 2022: International Conference On Marketing And Management 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.

205. Reviewer, ICMELT 2022: International Conference On Mobile Education And Learning Technologies 2022. Conference was held online in Seoul, South Korea. Conference date was March 11<sup>th</sup>, 2022 to March 12<sup>th</sup>, 2022.

#### **WORKSHOPS AND SEMINAR ATTENDED**

1. Participate in a national workshop on “Modern Embedded Systems and Computing: Challenges and Opportunities”. This programme was organized by Quantum University, Roorkee, India in association with Indian Academy of Industrial and Applicable Mathematics (IAIAM), Pune, India on February 9<sup>th</sup>, 2021.
2. Participate in TEQIP – III sponsored five days’ workshop on “Planning & Design in Various Fields in Electrical Engineering”. This programme was jointly organized by Rajasthan Technical University, Kota and Anand International College of Engineering, Jaipur from January 11<sup>th</sup> to January 15<sup>th</sup>, 2021.
3. Participate in webinar on “Millimeter Wave and Vehicular Communication in 5G Technology”. This programme was organized by Department of Electronics and Communication Engineering, NSHM Knowledge Campus Durgapur – Group of Institutions, Durgapur, India, on July 25<sup>th</sup>, 2020.
4. Participate in webinar on “Medical Image Processing”. This programme was organized by Department of Electronics and Telecommunication Engineering, R. C. Patel Institute of Technology, Shirpur, Maharashtra, on July 25<sup>th</sup>, 2020.
5. Participate in webinar on “Post Covid-19 Superpowers - Computer Science, Healthcare, Information Technology & Personal Branding”. This program is organized by Department of Computer Science, Sangam University, Rajasthan, India in association with Computer Society of India (CSI) on June 27<sup>th</sup>, 2020.
6. Participate in webinar on “Nanoclay Application for Environment and Energy”. This program is organized by Department of Applied Science, Poornima Institute of Engineering and Technology, Jaipur, India on June 18<sup>th</sup>, 2020.
7. Participate in webinar on “Cross Skill Training - Need of Changing Industry”. This program is organized by Department of Applied Science, Poornima Institute of Engineering and Technology, Jaipur, India on June 17<sup>th</sup>, 2020.
8. Participate in webinar on “Transforming Humanity Through Sustainable Development”. This program is organized by Department of Applied Science, Poornima Institute of Engineering and Technology, Jaipur, India from June 8<sup>th</sup>, 2020 to June 9<sup>th</sup>, 2020.
9. Participate in Online Quiz on “COVID-19 Awareness Quiz”. This program is organized by Department of Electronics & Communication, Rajiv Gandhi College of Engineering Research & Technology, Chandrapur, India on June 6<sup>th</sup>, 2020.
10. Participate in Online Quiz on “National Level Environment Awareness Quiz”. This program is organized by Incubation and Innovation Centre, College of Engineering Roorkee, Uttarakhand, India on June 6<sup>th</sup>, 2020.
11. Participate in International Level webinar on “Recent Trends in Wireless Communication”. This program is organized by Department of Electronics and Telecommunication, R. C. Patel Institute of Technology, Shirpur, Maharashtra, India on June 7<sup>th</sup>, 2020.
12. Participate in National Level webinar on “How to Make Yourself Comfortable in the Upcoming Challenges in the Industry and to Establish a Bridge between Academics and Industrial Exposure”. This program is organized by S. D. College of Management Studies, Muzaffarnagar, India on June 6<sup>th</sup>, 2020.
13. Participate in National Level Online Quiz on “Use of Python in Data Science, IOT, Machine Learning”. This program is organized by Department of CSE & ECE (jointly) of Calcutta Institute of Technology, Uluberia, Howrah, West Bengal, India from June 3<sup>rd</sup>, 2020 to June 8<sup>th</sup>, 2020.
14. Participate in National Level Online Quiz on “National Level E-Quiz 2020 on Emerging Market in India”. This program is organized by Department of Commerce, Shri Annadaneshwar Arts, Science & Commerce College, Naregal, Karnataka, India on June, 2020.
15. Participate in National Level Online Quiz on “National Quiz on IoT”. This program is organized by Department of Computer Science & Engineering, Raj Kumar Goel Institute of Technology, Ghaziabad, India on May 31<sup>st</sup>, 2020.
16. Participate in National Level Online Quiz on “Online Quiz on Research Methodology”. This program is organized by Department of Computer Science and Engineering, Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon, Sangli, Maharashtra, India on May 30<sup>th</sup>, 2020.
17. Participate in the webinar on “Research Opportunities of Power Converters”. This webinar is organized by K. Ramakrishnan College of Technology, Trichy, Tamil Nadu on May 21<sup>st</sup>, 2020.
18. Participate in online quiz competition on “Test your Knowledge on Plagiarism”. This quiz is organized by Office of Dean (Research), Crescent Institute of Science & Technology, Chennai on May 18<sup>th</sup>, 2020.



19. Participate in online awareness quiz on “COVID-19 Quiz cum Awareness Programme”. This quiz is organized by Department of Applied Sciences and Humanities, Rajkiya Engineering College, Ambedkar Nagar, Uttar Pradesh on May 17<sup>th</sup>, 2020.
20. Participate National Level online quiz on “Electrical and Electronics Engineering”. This quiz is organized by Department of Electrical and Electronics Engineering, Dr. N. G. P. Institute of Technology, Coimbatore, Tamil Nadu on May 13<sup>th</sup>, 2020.
21. Participate in a workshop on “Basic Optimization Technology Workshop”. This program was organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India from May 4<sup>th</sup>, 2020 to May 6<sup>th</sup>, 2020.
22. Participate in a workshop on “GO Programming Language”. This program was jointly organized by Industry Institute Collaboration Association and Indian Engineering Teachers Association on April 29<sup>th</sup>, 2020.
23. Participate in National Level Online Quiz on “Communication Engineering”. This program is organized by Department of ECE, EGS Pillay Engineering College, Nagapattinam, Tamil Nadu, India on May 6<sup>th</sup>, 2020.
24. Participate in the webinar on “Recent Advancement of Education and Technology”. This webinar is organized by International Journal of Advanced Study and Research Work in association with Department of Engineering Science (FE), Dr D Y Patil School of Engineering, Lohegaon, Pune, Maharashtra on May 1<sup>st</sup>, 2020.
25. Participate in general awareness program on “COVID – 19 Awareness Program”. This program is organized by Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra, India on May 1<sup>st</sup>, 2020.
26. Participate in awareness program on “COVID – 19: Awareness”. This program is organized by Internal Quality Assurance Cell (IQAC), Sinhgad College of Arts and Commerce, Narhe, Maharashtra, India on May 1<sup>st</sup>, 2020.
27. Participate in the webinar on “Teacher to Educational Leader”. This webinar is organized by Colombo Plan Staff College (CPSC), Pasig, Metro Manila, Philippines on April 23<sup>rd</sup>, 2020.
28. Participate in general awareness Quiz on “COVID – 19 Pandemic Quiz”. This Quiz is organized by Department of B.Com. (Banking and Insurance), Thakur College of Science and Commerce, Kandivali East, Mumbai, India on April 18<sup>th</sup>, 2020.
29. Participate in ECI’s (Engineering Council of India) 17th Foundation Day Function and Eminent Engineer’s Award Function 2019. This program was organized by Engineering Council of India on 4th April, 2019 at Mirza Ghalib Chamber, SCOPE Convention Centre, Core-8, SCOPE Complex, 7, Lodhi Road, New Delhi.
30. Participate in a workshop on “TEQIP Course on Fundamentals and Characterization of Solar Cells”. This program was organized by Department of Materials Science and Engineering, Indian Institute of Technology (IIT), Kanpur (under Knowledge Incubation for TEQIP – IIT Kanpur Node) from 19th February to 23rd February (One Week), 2019.
31. Participate in a workshop on “Advanced Sensors and Actuators”. This program was organized by Centre for Mechatronics, Indian Institute of Technology (IIT), Kanpur (under Knowledge Incubation for TEQIP – IIT Kanpur Node) from 28th August to 31st August (One Week), 2016.
32. Participate in a workshop on “Establishment of Incubation and Innovation Centre”. This program was organized by Kamla Nehru Institute of Technology, Sultanpur under the Aegis of World Bank (WB) TEQIP – II on 2nd August, 2016.
33. Participate in a workshop on “Medical Imaging: Techniques and Clinical Applications”. This program was organized by Indian Institute of Technology (IIT), Kanpur (under National Network for Mathematical and Computational Biology (NNMCB) – IIT Kanpur Node) from 22th February to 23th February (Two Days), 2016.
34. Participate in a short-term training program on “Simulation and Mathematical Tool for Engineering Applications (SMTEA)”, sponsored under TEQIP – II, organized at Kamla Nehru Institute of Technology, Sultanpur from 27th July to 31st July (One Week), 2015.
35. Participate in a Workshop on “Advanced MATLAB Applications (ADMAT) – 2015”, organized by IEEE Student Branch IIT Guwahati at Electrical Engineering Department, IIT Guwahati, held from 11th April to 12th April (Two Days), 2015.
36. Participate in a Workshop on “Advances in Optimization Techniques and Their Application in Power Systems”, sponsored under TEQIP – II. This workshop was organized by Electrical Engineering Department, Kamla Nehru Institute of Technology, Sultanpur from 20th February to 21st February (Two Days), 2015.

37. Participate in a 2nd School on “Signal, Image, Speech, and Language Processing (SISLP)”, organized at DST-CIMS, Banaras Hindu University, Varanasi – 221005, held during 21st July to 1st August (Two Week), 2014.
38. Participate in a short-term course on “MATLAB and LATEX: Simulation with Documentation (SIMDOC – 2014)” sponsored under TEQIP – II. This workshop was organized by Department of Computer Science and Engineering, MNNIT, Allahabad from 30th June to 5th July (One Week), 2014.
39. Participate in the National Workshop on “Advanced VLSI, Signal processing and Communication network (AVSC-2014)” sponsored under TEQIP – II. This workshop was organized by MNNIT, Allahabad from 19th May to 24th May (One Week), 2014.

#### **FACULTY DEVELOPMENT PROGRAMME AND SUMMER/WINTER COURSES ATTENDED**

1. Participate online in a FDP on “IoT: Seamless connectivity and security for smart applications”. This programme was organized by MVN University, Haryana, India from April 23<sup>rd</sup>, 2022 to April 25<sup>th</sup>, 2022 (Two Days).
2. Participate online in a FDP on “Future Trends & Advances in Electrical Science”. This programme was organized by Department of Electrical and Electronics Engineering, SJB Institute of Technology, Bengaluru from April 4<sup>th</sup>, 2022 to April 8<sup>th</sup>, 2022 (One Week).
3. Participate online in AICTE Training and Learning (ATAL) Academy Sponsored FDP on “Principles of Artificial Intelligence, Machine Learning, and Deep Learning”. This programme was organized by Department of Studies in Computer Science, University of Mysore, India from November 26<sup>th</sup>, 2021 to November 30<sup>th</sup>, 2021. (One Week).
4. Participate online in AICTE - AQIS sponsored STTP on “Wireless Sensor, Internet of Things and Internet of Everything’s”. This programme was organized by Department of Computer Science and Engineering, St. Martin’s Engineering College, Telangana State, India from May 3<sup>rd</sup>, 2021 to May 8<sup>th</sup>, 2021. (One Week).
5. Participate online in STTP on “Advancements in Signal Processing and Artificial Intelligence in Healthcare (ASPAIH) 2021”. This programme was organized by Department of Electronics and Communication Engineering, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai from February 15<sup>th</sup>, 2021 to February 24<sup>th</sup>, 2021. (Two Week).
6. Participate online in AICTE sponsored STTP on “Internet of Things (IoT): Challenges and Applications”. This programme was organized by University School of Information, Communication & Technology (USIC&T), Guru Gobind Singh Indraprastha University, India from February 1<sup>st</sup>, 2021 to February 6<sup>th</sup>, 2021. (One Week).
7. Participate online in Research Conclave on “Power Electronics”. This programme was organized by Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, India from January 25<sup>th</sup>, 2021 to January 29<sup>th</sup>, 2021. (One Week).
8. Participate online in Second Short Term Training Programme (STTP) under AICTE-AQIS on “Image Processing and its Application”. This programme was organized by Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur, India from September 7<sup>th</sup>, 2020 to September 12<sup>th</sup>, 2020. (One Week).
9. Participate online in First Short Term Training Programme (STTP) under AICTE-AQIS on “Image Processing and its Application”. This programme was organized by Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur, India from August 24<sup>th</sup>, 2020 to August 29<sup>th</sup>, 2020. (One Week).
10. Participate in an Online International Faculty Development Programme on “World of Cyber Physical Systems and Future Robotics of Industry: Cobotics”. This programme was organized by Department of Electronics and Telecommunication Engineering, R. C. Patel Institute of Technology, Shirpur, Maharashtra, from July 11<sup>th</sup>, 2020 to July 12<sup>th</sup>, 2020 (Two days).
11. Participate in an Online Faculty Development Programme on “AI and IoT for Medical Applications”. This programme was organized by Department of Electronics and Communication Engineering, GMR Institute of Technology (GMRIT), Rajam, Andhra Pradesh, from June 1<sup>st</sup>, 2020 to June 3<sup>rd</sup>, 2020 (Three days).
12. Participate in an Online Faculty Development Programme on “Migration of IT Infra using Cloud”. This programme was organized by Department of Applied Science under Internal Quality Assurance Cell (IQAC), Poornima Institute of Engineering and Technology, Jaipur from May 20<sup>th</sup>, 2020 to May 21<sup>st</sup>, 2020 (Two days).
13. Participate in a Faculty Development Programme on “Challenges in Building Collaborations in Research and Innovation”. This programme was jointly organized by Faculty of Humanities and Sciences,

- Adayalampattu Campus, Maduravoyal, Chennai and Dr. A.P.J. Abdul Kalam Center of Excellence in Innovation and Entrepreneurship, Adayalampattu, Chennai on May 9<sup>th</sup>, 2020 (One Day).
14. Participate in a Faculty Development Programme on “LaTeX” offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. This programme was organized by Chevalier T. Thomas Elizabeth College for Women, Chennai, Tamil Nadu from April 27<sup>th</sup>, 2020 to May 1<sup>st</sup>, 2020 (One Week).
  15. Participate in an Online Certificate Programme on “Strategies to Address the Soft Skill Gap”. This programme was organized by International Journal of Advanced Study and Research Work from April 27<sup>th</sup>, 2020 to May 1<sup>st</sup>, 2020 (One Week).
  16. Participate in a Faculty Development Programme on “Python 3.4.3” offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. This programme was jointly organized by Spoken Tutorial Project, IIT Bombay and P.R. Pote Patil College of Engineering & Management, Amravati, Maharashtra from April 22<sup>nd</sup>, 2020 to April 27<sup>th</sup>, 2020 (One Week).
  17. Participate in a Faculty Development Programme on “Python 3.4.3”. This programme was organized by Department of Computer Science and Engineering, Adhiparasakthi Engineering College, Melmaruvathur, Tamil Nadu in association with Spoken Tutorial Project, IIT Bombay from April 16<sup>th</sup>, 2020 to April 22<sup>nd</sup>, 2020 (One Week).
  18. Participate in an AICTE sponsored Faculty Development Programme on “Artificial Intelligence”. This programme was organized by Motilal Nehru National Institute of Technology, Prayagraj from 10<sup>th</sup> December to 14<sup>th</sup> December (One Week), 2019.
  19. Participate in a State Project Facilitation Unit, U.P., Lucknow (TEQIP – II) sponsored Faculty Development Programme on “Entrepreneurship Development”. This programme was organized by Institute of Entrepreneurship Development, U.P. Lucknow from 5<sup>th</sup> December to 9<sup>th</sup> December (One Week), 2016.
  20. Participate in a World Bank TEQIP – II sponsored Faculty Development Programme on “Computer Based Security: Issues and Challenges”. This programme was organized by Department of Computer Science and Engineering, Kamla Nehru Institute of Technology, Sultanpur from 17<sup>th</sup> October to 21<sup>st</sup> October (One Week), 2016.
  21. Participate in a TEQIP – II and in Technical Association with ISTE (Indian Society for Technical Education) and CSI (Computer Society of India) sponsored Faculty Development Programme on “Role of MATLAB in Advanced Computing”. This programme was organized by Department of Computer Science and Engineering, Kamla Nehru Institute of Technology, Sultanpur from 25<sup>th</sup> July to 29<sup>th</sup> July (One Week), 2016.
  22. Participate in an AICTE sponsored Faculty Development Programme on “Simulation and Mathematical Tools for Engineering Research”. This programme was organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur from 04<sup>th</sup> July to 15<sup>th</sup> July (Two Week), 2016.
  23. Participate in a World Bank TEQIP-II sponsored Faculty Development Programme on “Disaster Management & Mitigation Measures”. This programme was organized by Department of Civil Engineering, Kamla Nehru Institute of Technology, Sultanpur from 26<sup>th</sup> April to 30<sup>th</sup> April (One Week), 2016.
  24. Participate in a World Bank TEQIP-II sponsored Faculty Development Programme on “Recent Advances in Numerical and Optimization Techniques (RANOT – 2016)”. This programme was organized by Department of Civil Engineering, Kamla Nehru Institute of Technology, Sultanpur from 01<sup>st</sup> March to 05<sup>th</sup> March (One Week), 2016.
  25. Participate in an AICTE sponsored Faculty Development Programme on “Research Methodology using Data Analytical Tools”. This programme was organized by Department of Mechanical Engineering, Kamla Nehru Institute of Technology, Sultanpur from 11<sup>th</sup> January to 22<sup>th</sup> January (Two Week), 2016.
  26. Participate in a TEQIP-II sponsored short term training programme on “Embedded System Development”. This programme was organized by Department of Electronics Engineering, Kamla Nehru Institute of Technology, Sultanpur from 02<sup>nd</sup> November to 06<sup>th</sup> November (One Week), 2015.
  27. Participate in a comprehensive workshop on “Recent Simulation Techniques and Tools”. This workshop was organized by Department of Electrical Engineering, Kamla Nehru Institute of Technology, Sultanpur on 29<sup>th</sup> April (One Day), 2014.
  28. Participate in an AICTE recognized short term course on “VLSI Design through ICT”. This workshop was organized by Electronics and Communication Engineering Department, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 10<sup>th</sup> March – 14<sup>th</sup> March (One Week), 2014.

29. Participate in the National Workshop on “Design & Simulation of Embedded Systems” was organized by Electronics Engineering Department, Kamla Nehru Institute of Technology, Sultanpur on 22nd October (One Day), 2013.
30. Participate in a complementary seminar on “MATLAB® and Simulink® for Engineering Education” was organized by MathWorks India Pvt. Ltd. at Shangri-La – Eros Hotel, New Delhi on 24th September (One Day), 2013.
31. Participate in the National Workshop on “Deployment & Use of NPTEL Courses” under National Programme on Technology Enhanced Learning (NPTEL). This workshop was organized by IIT Kanpur and was held during 20th August to 21st August (Two Days) 2011.

## PROJECTS AND TRAINING

1. Participate in an online training on “LaTeX” offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India. This programme was organized by Chevalier T. Thomas Elizabeth College for Women, Chennai, Tamil Nadu in January 2020 semester on May 4<sup>th</sup>, 2020.
2. “Certificate of Completion: Funding Hacks for Researchers” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
3. “Certificate of Completion: How to Secure Funding - ECR Edition” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
4. “Certificate of Completion: The Comments to Editors and Decision Recommendations” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
5. “Certificate of Completion: The Typical Peer Review Process” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
6. “Certificate of Completion: Models of Peer Review” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
7. “Certificate of Completion: How to Write a Helpful Peer Review Report” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
8. “Certificate of Completion: How to Write a Helpful Peer Review Report” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
9. “Certificate of Completion: Introduction to the Certified Peer Reviewer Course” participated online. This training is offered by the Researcher Academy, ELSEVIER, April, 2020.
10. “Certificate for Completion of Python 3.4.3 Training” participated online. This training is offered by the Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, Ministry of Human Resource Development (MHRD), Government of India, April, 2020.
11. “Developing Document Retrieval System using TF-IDF approach” submitted to Knowledge Incubation for TEQIP, Indian Institute of Technology Kanpur, India, January, 2020.

## UNIQUE RESEARCHER IDS

1. Web of Science (WoS) Researcher ID: V-7879-2019
2. Open Researcher and Contributor ID (ORCID) ID: 0000-0002-3830-1736
3. Scopus ID: 43661289200

## PERSONAL INFORMATIONS

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## DECLARATIONS

I hereby confirm that all the details furnished above are authentic and accurate to the best of my belief.

Place: Chandigarh, India

**Dr. Sumit Kushwaha**