Centre/School/Special Centre: School of Studies of Engineering & technology

Department: Electronics and Communication Engineering

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Dr.Manoj Gupta

Associate Professor

Qualifications: Ph.D , M.Tech , B.Tech.

Area of Interest/Specialization: Artificial Intelligence and Machine Learning/Deep Learning, Computational Intelligence, Biomedical Signal and Image Processing/Medical Imaging, Intelligent Systems/Soft Computing, Healthcare Informatics, Wireless Communication/Multimedia Communication and Embedded Systems

Experience: 15+ Years

Awards and Honors:

Research Projects:

Completed: 02

UGC Major Research Project:
Internatinal Collaboration/Consultancy

Best Peer Reviewed Publication (up-to 10):

1. "Future 5G Network Based Smart Hospitals: Hybrid Detection Technique for Latency Improvement", **IEEE Access Journal (IEEE)**, ISSN: 2169-3536, Vol. 8 (2020), pp 153240-153249. **(SCI and Scopus).**

2. "Prototyping using multi-FPGA platform: A novel and complete flow" in **Microprocessors and Microsystems, Elsevier,** Vol. 96, pp 104751, 2023 **(SCIE and Scopus)**

3. "A review and Analysis of Localization Techniques in Underwater Wireless Sensor Networks" **Computers, Materials and Continua Journal (CMC), Tech Science Press**, Vol.75, No.3, pp 5697-5715, 2023, DOI:10.32604/cmc.2023.033007, ISSN: 1546-2218 (Print), 1546-2226 (Online) **(SCI and Scopus)**

4. "Applications of artificial neural network to solve the nonlinear COVID-19 mathematical

model based on the dynamics of SIQ" **Journal of Taibah University for Science (Taylor & Francis**) (Online ISSN: 1658-3655),Vol 16, Issue 1, pp 874-884, 2022 **(SCIE and Scopus)**

5. "Deep Attention Network for Pneumonia Detection Using Chest X-Ray Images", **Computers, Materials and Continua Journal (CMC), Tech Science Press**, Vol.74, No.1, pp 1673-1691, 2023, DOI:10.32604/cmc.2023.032364, ISSN: 1546-2218 (Print), 1546-2226 (Online) **(SCI and Scopus).**

6. "Pre-Silicon NBTI Delay-Aware Modeling of Network-on-Chip Router Microarchitecture" in **Microprocessors and Microsystems, Elsevier**, Vol. 91, pp 104526, 2022 **(SCI and Scopus)**

7. "Hybrid Models for Breast Cancer Detection via Transfer Learning Technique" **Computers, Materials and Continua Journal (CMC), Tech Science Press**, Vol.74, No.2, pp 3063-3083, 2023, DOI:10.32604/cmc.2023.032363, ISSN: 1546-2218 (Print), 1546-2226 (Online) **(SCI and Scopus)**

8. "Artificial Neural Networks to Solve the Singular Model with Neumann–Robin, Dirichlet and Neumann Boundary Conditions" **Sensors** 2021, 21, 6498. https://doi.org/10.3390/s21196498 **(SCIE and Scopus)**

9. "Preserving Privacy of User Identity Based on Pseudonym Variable in 5G", **Computers, Materials and Continua Journal (CMC), Tech Science Press,** Vol.70, issue 3, pp 5551-5568, 2022, https://doi.org/10.32604/cmc.2022.017338, ISSN: 1546-2218 (Print), 1546-2226 (Online), **(SCI and Scopus)**

10. "Evolutionary Integrated Heuristic with Gudermannian Neural Networks for Second Kind of Lane–Emden Nonlinear Singular Models" **Applied Science**, ISSN: 2076-3417, 2021, 11, 4725. https://doi.org/10.3390/app11114725 **(SCIE and Scopus)**

Recent Books/Book Chapters/Monographs etc.:

Books (Published):

1. "Next Generation Antennas: Advancement and Challenges", Wiley-Scrivener Publishing, USA (Published)

2. "Wearable and Neuronic Antennas for Medical and Wireless Applications" Wiley-Scrivener Publishing, USA. (Published)

3. " Advances in 5G Wireless Communication Systems in Healthcare Informatics", CRC Press, Taylor & Francis, USA (Published)

Book Chapter:

1. "A rectangular Microstrip Patch Antenna with Defected Ground for UWB Applications" Book on Wearable and Neuronic Antennas for Medical and Wireless Applications, John Wiley & Sons, Inc., pp 191-201, 2022

2. "Role of Detection Techniques in mobile communication for enhancing the performance of remote health monitoring" Book on Cyber-Physical Systems and Industry 4.0, Apple Academic Press (With CRC Press – Taylor and Francis Group), pp 199-224, 2022.

3. "Role of Deep Learning in Medical Image Super-Resolution" Book on Principles and Methods of Explainable Artificial Intelligence in Healthcare, IGI Global, pp 55-93,2022.

4. "Implementation of Mathematical Morphology Technique in Binary and Grayscale Image" Advance Concepts of Image Processing and Pattern Recognition, Springer (Singapore) , pp 203-212, 2022.

National /International Conference Publication: **10**

Workshop/Seminar Attended: **14**

FDP/Short Term Course/Training Program Attended: **10**

Research Copyright Granted: **02**

Patent Granted: **02**

Lead Guest Editor of Special Issue Journals: **04**

Editor in Chief of Book Series: **04**

Research Supervision: Completed   : **08**

Administrative Responsibilities:

RESPONSIBILITIES GIVEN

UNIVERSITY LEVEL

Additional Information:

Dr.Manoj Gupta