Dr. Deepak Parashar
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Education

PhD (February 2022) – Maulana Azad National Institute of Technology (NIT) Bhopal, India

Thesis titled "Improved Classification of Glaucoma in Retinal fundus Images using Image Decomposition Techniques"

M.Tech. (August 2011) – Shri Govindram Seksaria Institute of Technology and Science (SGSITS)

Indore, MP, India

B.E. (June 2008) – Indira Gandhi Engineering College (Govt. College) Sagar, MP, India

Key Skills

Dr. Deepak Parashar specializes in offering extensive solutions to industry and governmental bodies, focusing on:

1. Dr. Parashar brings unparalleled expertise in medical image analysis, leveraging advanced machine learning algorithms to provide precise computer-aided diagnosis, enhancing healthcare outcomes and efficiency.

2. With a profound understanding of artificial intelligence, Dr. Parashar delivers innovative solutions across various sectors, including robotics, medical technology, and finance, optimizing processes and driving technological advancements.

3. Dr. Parashar's mastery of machine learning, deep learning, and computer vision enables him to develop cutting-edge solutions that revolutionize industries, from enhancing diagnostics in healthcare to optimizing operations in manufacturing and beyond.

Background
Joined GSFC University in May 2024

Scholarship and Accomplishments

Dr. Deepak Parashar boasts a 14-year academic journey marked by substantial contributions to computer science and engineering. Serving as Assistant Professor at

renowned institutions like Symbiosis Institute of Technology Pune, GCET Vallabh Vidyanagar, SVITS Indore, and Govt. Engineering College Ujjain, he has cultivated a diverse skill set indispensable for academic excellence.

✓ Dr. Parashar's research spans image analysis, biomedical signal processing, brain-computer interface, machine learning, and AI. His emphasis on integrating AI & IoT into healthcare reflects a commitment to technological innovation for societal good. With mentorship roles and supervision of numerous B.Tech. projects and M.Tech. theses, he fosters the next generation of researchers.

✓ Dr. Parashar's scholarly output is impressive, with over 50 publications to his credit. These include journal articles including IEEE Transactions, conference papers, book chapters, and two published patents (published).

✓ Dr. Parashar plays an active role in multiple professional organizations, such as IEEE, ACM, ISTE, and IAENG, actively contributing to the progression of his field. His dedication to continuous learning and knowledge sharing is evident through his participation in organizing and participating in short-term courses, webinars, workshops, and conferences within academic circles.

✓ His receipt of prestigious awards such as the Doctoral Fellowship (TEQIP-III, MHRD Govt. of India) underscores the recognition of his scholarly contributions.

✓ He has successfully qualified in the GATE, showcasing his proficiency and competence in his field. Moreover, his involvement in a TEQIP-III funded project at NIT Bhopal. His acceptance letter from a foreign university and approval for the SERB-OVDF Fellowship highlight his international recognition.

✓ His role as an active reviewer for esteemed SCI journals and conferences such as IEEE, Elsevier, and Springer.

Most Three Notable Publications

1. D. Parashar and D. Agrawal, "2-D Compact Variational Mode Decomposition- Based Automatic Classification of Glaucoma Stages from Fundus Images," *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-10, 2021, Art no. 2507610, doi: 10.1109/TIM.2021.3071223. (Indexed in **Q1** SCI Journal)

2. D. Parashar and D. K. Agrawal, "Automated Classification of Glaucoma Stages Using Flexible Analytic Wavelet Transform from Retinal Fundus Images," *IEEE Sensors Journal*, vol. 20, no. 21, pp. 12885-12894, 1 Nov.1, 2020, doi: 10.1109/JSEN.2020.3001972. (Indexed in **Q1** SCI Journal)

3. Parashar, D., Agrawal, D.K. Classification of Glaucoma Stages Using Image Empirical Mode Decomposition from Fundus Images. *Journal of Digit Imaging, Springer*, 35, 1283–1292 (2022), doi:10.1007/s10278-022-00648-1. (Indexed in **Q1** SCI Journal)