DR. RAMESH R. MANZA

PROFESSOR | DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Bio-Medical Image Processing Laboratory, Dr. Babasaheb Ambedkar Marathwada University,
Chhatrapati Sambhajinagar, Maharashtra, India

PROFESSIONAL SUMMARY

Academician and researcher in Computer Science with specialisation in biomedical image processing and its applications in healthcare. His academic and research work encompasses medical image analysis, computer vision, pattern recognition, image compression and computational techniques for disease detection, particularly diabetic retinopathy.

ACADEMIC QUALIFICATIONS

- Ph.D. in Computer Science.
- M.Sc. in Computer Science.
- Qualified SET and NET in Computer Science.

CURRENT ACADEMIC POSITION

- Professor, Department of Computer Science and Information Technology, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar, Maharashtra, India.
- Associated with the Bio-Medical Image Processing Laboratory.

RESEARCH AREAS AND SPECIALISATION

- Biomedical image processing and medical image analysis
- Diabetic retinopathy detection
- Image compression and segmentation
- Computer vision and pattern recognition
- Machine learning and artificial intelligence
- Computer graphics and computer simulation
- Microprocessors and computer networks

RESEARCH PROJECTS AND CONTRIBUTIONS

Dr. Manza has undertaken externally funded research projects in biomedical image processing, with particular emphasis on the early detection of diabetic retinopathy.

- Development of Multi-Resolution Analysis Technique for Early Detection of Non-Proliferative Diabetic Retinopathy without Using Angiography. Funded by the Department of Science and Technology (DST), New Delhi; sanctioned grant: Rs. 23.04 lakh.
- Development of Colour Image Segmentation and Filtering Techniques for Early Detection of Diabetic Retinopathy. Funded by the University Grants Commission (UGC), New Delhi; sanctioned grant: Rs. 11.733 lakh.

RESEARCH AND SCHOLARLY CONTRIBUTIONS

The university profile of the Bio-Medical Image Processing Laboratory records the following research outcomes:

- 47 research publications
- 3 patents
- 10 books
- Development of early-detection tools and mobile applications for diabetic retinopathy
- Research guidance to Ph.D. and M.Phil. scholars

PROFESSIONAL MEMBERSHIPS AND DISTINCTIONS

- Fellow, Institution of Electronics and Telecommunication Engineers (FIETE)
- Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- Member, International Association of Engineers (IAEng)
- Member, Computer Science Teachers Association (CSTA)
- Member, International Association of Computer Science and Information Technology (IACSIT)
- Member, Institute for Smart Structures and Systems (ISSS)
- Member, Indian Science Congress Association (ISCA)
- Member, Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI)

EDITORIAL AND SCHOLARLY CONTRIBUTIONS

- Life Member, Association of All Computer Science Teachers (AACST).
- Editorial Board Member, AACST Newsletter.

RESEARCH PROFILE

- BAMU · Department of Computer Science and IT
  http://bamu.ac.in/en/academicspage/department-of-computer-science-it/
- Web of Science
  https://www.webofscience.com/wos/author/record/3351498
- Scopus
  https://www.scopus.com/authid/detail.uri?authorId=18234215000
- Google Scholar
  https://scholar.google.com/citations?hl=en&user=Ssv8H3AAAAAJ
- Vidwan · INFLIBNET
  https://vidwan.inflibnet.ac.in/profile/57231

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