

Name & Affiliation

Dr. Keerthana Prasad,
Director, Manipal School of Information Sciences,
Manipal Academy of Higher Education, Manipal

**Research Experience**

- Worked very closely with many medical researchers in India and abroad.
- Principal investigator of the AI-based cervical cancer screening approach that was developed as part of a CAMTech Innovation Award, which won \$ 50000 funded by USAID.
- Principal investigator of the Indian consortium for the collaborative project with the University of Groningen, Netherlands which won the DBT co-funded Horizon 2020 grant of € 3 million, by the European Commission.
- Developed a tool for evaluation of bone mineral density named BMDScan which won the Rural Innovation Award (\$ 15,000) from the Microsoft.
- Worked on automation of malaria parasites detection using image analysis, for which she has received IDF Innovation Award.
- Awarded four patents of which one from USA and six patent applications pending examination in India.
- Published around 70 research papers in indexed international journals, and has an H-index of 17.

Current Projects and Expertise

- Automated detection of squamous cell carcinoma from histopathological images
- Detection and classification of anemia from blood smear images using machine learning techniques
- Automation of bacteria detection from images of gram stained clinical specimen.
- Development of an image analysis method for detection of dermatophytes from microscopic image of skin samples
- Development of machine learning based computer aided system for the detection of endometrial hyperplasia from histopathological images
- Automation of detection and quantification of mitosis from multi-tumour histopathological images

Research interests

Medical Image Processing, Machine learning and analysis

Publication id

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