Ananda Resmi S
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Educational Qualifications

Ph.D.   Development of Techniques for Automatic Extraction and Grade Detection of Glioma Tumors from Conventional Brain Magnetic Resonant Images. (Area-Biomedical Image Processing)- (Supervising Guide Prof. (Dr.) Tessamma Thomas, Department of Electronics, Cochin University of Science and Technology).

M. Tech.   Digital Electronics - Cochin University of Science and Technology.

B. Tech.   Electronics and Communication –University of Calicut

Experience: 30 years of in teaching , Administrative (14years)and Research(10 years) experience

Controller of Examinations , APJ Abdul Kalam Technological University, Thiruvananthapuram , Kerala (January 2021 onwards)

Professor and full additional charge of Principal: College of Engineering Pathanapuram (May 2014 to January2021)

Associate Professor: 2011 January onwards)

Assistant Professor: CAPE (CE Kidangoor, College of Engineering Perumon (2007 September – 2011 January)

Lecturer: University College of Engineering, Mahatma Gandhi University Muttom, Thodupuzha (1997 October -2007   September)

Lecturer: School of Technology and Applied sciences, Mahatma Gandhi University (1994, October-1997 October)

Consultancy Activities

Consultancy and R&D with Innometrics Technology Systems(P) Ltd, Technopark Trivandrum. From 17/12/2012, Development of Security system using real time Face recognition system.

R & D works

Joint   work with Interventional Radiology Sree Chitra Institute of medical science and Technology (SCTMIST) Trivandrum kerala India leading to Ph.D

Research Supervisor

Registered Research Supervisor under APj   Abdul kalam Technological University, Kerala

Publications: International Journals

1. **Automatic Detection and Classification of Glioma Tumors using Statistical Features** International Journal of Emerging Technologies in Computational and Applied Sciences**(IJETCAS), Feb2014**
2. **A novel automatic method for extraction of glioma tumour, white matter and grey matter from brain magnetic resonance images**, Biomedical Imaging and Intervention Journal (biij), April 2013, (e21)
3. **A semi-automatic method for segmentation and 3D modelling of glioma tumors from brain MRI**, J. Biomedical Science and Engineering, 2012,5,378-383.
4. **Texture Description of low grade and high grade Glioma using Statistical features in Brain MRIs**, Int. J of Recent trends in Engineering and Technology, Vol.4, No.3,Nov 2010.
5. **A novel computer- assisted technique for pedicle screw insertion**, The International Journal of Medical Robotics and Computer assisted surgery 2007; 3: 59-63
6. A Novel and Efficient Method for Denoising and Compression of MR Images for Telemedicine Applications, Grenze Int. J. of Engineering and Technology, Vol. 1, No. 1, pp.53-58,January 2015

International Conference papers

1. **Deep Learning Enabled Classification of Cognitive Impairment Stages Using MRI Images,**2023, International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES)
   DOI: 10.1109/CISES58720.2023
   28-30 April 2023
2. **Automatic Segmentation Framework for Primary Tumors from Brain MRIs using Morphological Filtering Techniques**, 2012, 5th International Conference on Biomedical Engineering and Informatics (BMEI 2012)
3. **Automatic Segmentation of Brain MRIs using Morphological methods**, International Conference on Modelling and Simulation (MS09) India 1-3 Dec 2009
4. **A novel computer assisted technique for pedicle screw insertion**, International Conference on Advanced Information and Telemedicine Technologies for Health, Nov 2005, Minsk, Belarus.

Awards Received

Certificate of Appreciation from AICTE Delhi   for the successful implementation of SAGY Project phase I

Editorial Advisory Board Member
1. International Journal of Recent Advances in Science &Engineering run by ISRASE
2. Life Member ISTE
3. Life member IEAE

Reviewer

1. IEEE Transactions on Image Processing
2. Journal of Digital Imaging-Springer
3. Annual Research and Review in Biology- Science Domain
4. Computers in Biology and Medicine- Elsevier

5. Journal of Basic and Applied Science-Research international

Areas of Interest

1. Biomedical image Processing
2. Image Analysis
3. Signal Processing and its applications
4. Brain MR image recognition and classification
5. Image Denoising

Major Responsibilities handled

Controller of Examinations , APJ Abdul Kalam Technological University, Thiruvananthapura

Institution Head-College of Engineering Pathanapuram
Head of the Department
TEQIP Coordinator
R & D Coordinator –TEQIP II
Training and Placement cell Coordinator
NSS coordinator
Exam Cell Coordinator

Training programmes attended/Coordinated

Keynote speaker of UGC sponsored National seminar on Biomedical Image processing techniques and its applications at Assumption College Changanacherry, Kerala India
- Resource person for Medical imaging and its applications at college of Engineering Kidangoor, Kerala India
- Resouce person for FDP on Transforms: Techniques and Applications held at college of Engineering Kallooppara on Jan 2017
- Resource Person for the FDP on Advances in Communication Technology College of Engineeing Perumon on April 2018

Personal Details
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