

**Part - V**

# **ACCOMPLISHMENTS**



## **PUBLICATIONS (JOURNAL ARTICLES)**

1. R.Bhattacharjee, F.Heitz, V.Noblet, S.Sharma, N.Sharma, "Evaluation of a Learning-based Deformable Registration Method on Abdominal CT Images", Innovation and Research in BioMedical Engineering (IRBM) Journal [SCI Expanded, Scopus indexed, IF: 1.022]. DOI: <https://doi.org/10.1016/j.irbm.2020.04.002>
2. R. Bhattacharjee, A. Verma, N. Sharma, S. Sharma, "Non-rigid Registration (Computed Tomography Ultrasound) of Liver Using B-Splines and Free Form Deformation", International Journal of Biomedical Engineering and Technology (IJBET) [Scopus indexed, Accepted, July 2019, in press].

## **PUBLICATIONS (CONFERENCE ARTICLES)**

1. Bhattacharjee, R., Verma, A., Sharma, N., & Sharma, S. (2017, July). Non-rigid registration of multimodal images (Ultrasound and CT) of Liver using gradient orientation information. In 2017 IEEE 2nd International Conference on Opto-Electronic Information Processing (ICOIP) (pp. 35-39). IEEE.

## **ACHIEVEMENTS**

- Received the **France Life Imaging Scholarship** to attend the Deep Learning for Medical Imaging School (Deep Imaging 2019) at INSA LYON, France.
- Won the **Eiffel Excellence Scholarship 2018** by the French Ministry of Europe and Foreign Affairs to pursue research work for 10 months (September 2018 - July 2019) in Laboratory iCube, University of Strasbourg, France.

## **CONFERENCES AND WORKSHOPS**

- July 19-24, 2020: Conference - IEEE World Congress on Computational Intelligence (IEEE WCCI 2020 Virtual); By IEEE Computational Intelligence Society, Glasgow, UK.
- 15th – 19th April, 2019: Deep Learning for Medical Imaging School at INSA LYON, France.
- 11th Dec, 2018: iCube Deep Learning Workshop; Faculté de Médecine, Univ. of Strasbourg.

## **OTHER PUBLICATIONS (During Doctoral Studies)**

1. Sharan, T. S., Bhattacharjee, R., Sharma, S., & Sharma, N. (2020, April). Evaluation of Deep Learning Methods (DnCNN and U-Net) for Denoising of Heart Auscultation Signals. In 2020 3rd International Conference on Communication System, Computing and IT Applications (CSCITA) (pp. 151-155). IEEE.
2. Singh, M., Bhattacharjee, R., Sharma, N., & Verma, A. (2017, December). An improved Xie-Beni index for cluster validity measure. In 2017 Fourth International Conference on Image Information Processing (ICIIP) (pp. 1-5). IEEE.
3. Anuranjeeta, R. Bhattacharjee, S. Sharma, K.K. Shukla, “Classification and Quantitative Analysis of Histopathological Images of Breast Cancer”, International Journal of Biomedical Engineering and Technology (IJBET) [Scopus indexed, Accepted, March 2018, in press].

INSTITUTE OF MEDICAL SCIENCES

BANARAS HINDU UNIVERSITY

EC Registration No. ECR/526/Inst/UP/2014 Dt. 31.1.14

No. Dean/2016-17/EC/794

Dated: 31.03.2017

The Head  
School of Biomedical Engineering  
Indian Institute of Technology  
Banaras Hindu University

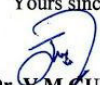
Dear Sir,

The Ethical Committee meeting was held on 31.03.2017 at 3.00 PM in the Chamber of the Dean, Faculty of Medicine, IMS for Ethical clearance of the MD/MS/DM/M.CH/Ph.D/synopsis/Projects submitted by the following:

Name of the Student	Mr. Romel Bhattacharjee
Title	Development of suitable algorithms for performing image fusion and image co-registration using medical images (CT, MRI and US) of patients.
Ethical suggestions	<ul style="list-style-type: none"><li>• Images have to be used only after deleting patients identity data</li><li>• For each step of study departmental contact person be consulted in order to maintain privacy and confidentiality of the case</li><li>• For compliance of above, close coordination between co-supervisor from Department of Radiodiagnosis and Supervisor from School of Biomedical Engineering be maintained</li></ul>
Remarks	<b>The synopsis is approved by the Institute Ethical Committee</b>

This is for your information and necessary action at your end.

  
(JAI PRAKASH)  
DEAN & COORDINATOR

Yours sincerely,  
  
(Dr. V M GUPTA)  
CHAIRPERSON OF THE ETHICAL COMMITTEE