NISHANT JAIN

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Dr. Nishant Jain
M.Tech. & Ph.D. from IIT Roorkee
Assistant Professor, Department of Electronics and Communication Engineering
Member, Technology Incubation and Entrepreneurship Development Cell
Member, Center of Excellence in Health Care Technologies and Informatics
Jaypee University of Information Technology,Waknaghat, Solan, HP (India)

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Educational Qualification:

Ph.D. (2013-2017):
Ph.D. Title: Segmentation and Classification of Liver Ultrasound Images
University: IIT Roorkee

M.Tech. (2010-2012):
M.Tech. Title: Fusion of Medical Images
University: IIT Roorkee

B.Tech. (2005-2009):
B.Tech.: Electronics and Telecommunication Engineering
University: UPTU

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Research Area:
1. Image Processing
2. Machine Learning
3. IoT System

Technical Skill:
- Python
- Numpy and Pandas
- Sklearn
- OpenCV
- MATLAB (Image and signal Processing)
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- LABVIEW
- HTML, PHP, CSS
- Embedded System (Arduino)

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Expert Lectures:

- Lecture on "Machine Learning: Replicating Human Brain", organized through GoogleMeet, by ABVGIET, Pragatinagar, Himachal Prades on 7th June 2021
- Lecture on "Computer Aided Diagnosis System for Medical Images", organized through GoogleMeet by Atria Institute of Technology, Bengaluru on 8th Feb 2021
- Lecture on "Application of Artificial Intelligence in Medical Images" Organised throughGoogleMeet, sponsored by AICTE and organized by Poojya Doddappa Appa College of Engineering, Kalaburagi (Gulbarga) on 12th Nov 2020.
- Delivered a talk on "Extraction of features for classification of abnormalities in Biomedical Images" in Short term course on Recent Advances in Signal and Image Processing organized in June 2019.
- Instructor for Tutorial Session in National Symposium on Medical Image Acquisition, Processing & Analysis at Jaypee University of Information Technology, Himachal Pradesh, India.

FDP/Workshops/Conferences organized:

- Vicharana 2.0: Toy Innovation Challenge on 16th Jan 2021 under Technology Incubation and Entrepreneurship Development Cell at JUIT.
- Organized a webinar series on Research and Technological Advancements in Biomedical and Healthcare Sector between 4th Aug 2020 and 12th Jan 2021 under Center of Excellence in Healthcare Technologies and Informatics at JUIT, Waknaghat.
- Organized Webinar lecture on "Cloud Computing'' on 2nd Jan 2021 under Technovatorz Club of Department of ECE, JUIT. Resource person was the 2006 passout Alumnus of the department presently working as project manager in Infosys, UK.
- Organized VICHARANA-2020 (an ideathon event) on 17th Oct 2020 under Technology Incubation and Entrepreneurship Development Cell at JUIT.
- Served as a Coordinator and a resource person in the National workshop on Emerging areas of research in Image processing-2020 organized between 06-12th Jan 2020.
- Served as a Coordinator and a resource person in the National workshop on Bioinformatics and Biomedical Image Analysis organized in May, 2019.
- Organized Startup Weekend powered by Google for Entrepreneurs at JUIT Waknaghat in Sep, 2018.
- Member of the organizing committee for the conference ISPCC-2017, held at JUIT, Waknaghat in Sep' 2017.

Extracurricular:

- Co-Chair of Technical session in conference CERA-2017, held at IIT Roorkee in Sep' 2017.
- Reviewer of Technical manuscript to be published in IEEE conferences.

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Research Guidance

Ph.D. Scholars:

1. Mrs. Anjna Kumari: Working on enhancement, segmentation and classification of liver Ultrasound Images.
2. Lt. Pragya Gupta: Working on the fusion of Medical Images
3. Mr. Munish Sood: Working on detection of ovarian cancer from Ultrasound images.

LIST OF PUBLICATIONS

1. Nishant Jain and Vinod Kumar, IFCM based segmentation method for liver ultrasound images, Journal of Medical Systems 40 (2016), 249.
2. Nishant Jain and Vinod Kumar , Liver ultrasound image segmentation using region-difference filters, Journal of digital imaging 30 (2017), 376–390.
3. Saransh Rohilla, Sannidhya Yadav, Nishant Jain, "Design and Analysis of Smart Shoe for Women Safety in Different Terrain", 2021 6th International Conference on Signal Processing, Computing and Control (2021), 556-560.
4. Nishant Jain;Arvind Yadav, Yogesh Kumar Sariya, Arun Balodi, "Analysis of Discrete Wavelet Transforms Variants for the Fusion of CT and MRI Images", The Open Biomedical Engineering Journal 15 (2021), 204-212.
5. Nishant Jain and Vinod Kumar, Alpha-trimmed first order statistics for the classification of liver us images,Proceedings of 6th IEEE International Conference on Computer Applications in Electrical Engineering Recent Advances (CERA) (2017),377 - 380.
6. Nishant Jain and Vinod Kumar, Approach towards automatic segmentation of diaphragm from ultrasound images, Proceeding of 2017 Fourth IEEE International Conference onImage Information Processing (ICIIP) (2018),143 - 148.