



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the year: 2020

S. No	Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Dr. S. Ranga Swamy et al	NA	Analysis of Hybrid Fusion-Neural Filter Approach to detect Brain Tumor	IEEE	Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC)	International	2020	978-1-7281-7132-6	VMTW	IEEE	https://www.springer.com/series/15179
2	Mrs. P. Anusha et al	NA	Design and Implementation of Crosstalk Noise Avoidance in VLSI Circuits using Fibonacci Numeral Codes	NA	International Conference on Smart Modernistic in Electronics and Communication (ICSMEC-2020)	International	2020	NA	VMTW	Shodh Saritha	https://conferences.computer.org/icsme/#!/toc/0



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3	Dr. Samiran Chatterjee et al	NA	Design and Analysis of Defective Ground Structure Microstrip Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-2	VMTW	ESN Publications	NA
4	Dr. Samiran Chatterjee et al	NA	Design and Analysis of Size Deduced Square Printed Patch Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-3	VMTW	ESN Publications	NA



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5	Dr. Samiran Chatterjee et al	NA	Design of Miniaturized Dual Band Microstrip Antenna for Microwave Band Applications	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-4	VMTW	ESN Publications	NA
6	Dr. Samiran Chatterjee et al	NA	Design of Three Elements Stacked Array Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-5	VMTW	ESN Publications	NA



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7	Dr. Samiran Chatterjee et al	NA	Design of Two Element Ultra Wideband Microstrip Array Antenna	NA	ESN International Conference on Multidisciplinary Research and Innovation (ICMRI-2020) jointly organized by ESN Publications-Chennai and Universal Digital University-USA	International	2020	978-81-945297-0-5 978-81-945297-1-6	VMTW	ESN Publications	https://www.springer.com/series/11156
8	Mr P. Vinay bhushan et al	NA	Privacy-Preserving K-Nearest Neighbor Computation in Multiple Cloud Environments	NA	International Conference on Emerging Trends in Engineering, Management, Arts, Science and Technology (ICETEMAST 2020)	International	2020	NA	VMTW	IJAMSR	NA



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Analysis of Hybrid Fusion-Neural Filter Approach to detect Brain Tumor

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Abstract—Medical Image Processing plays an essential role in human health. Many methods have played an essential role in reducing physician decision-making in diagnosis. Much caution is required and recommended, especially in cases involving the brain. Separation of tumors from normal brain cells belongs to the category of brain tumors. The dissection process can help provide the information needed for diagnosis. This process is risky due to the unusual shapes and manipulations at the border. Determining these tumors at an early stage can help provide the best treatment for patients. Typically, physicians adopt a manual method of dividing patients into patients, which leads to more time. This paper presents a well-functioning Hybrid Fusion-Neural Filter Approach (HFNF) classification system that considers various factors such as accuracy, recovery and accuracy. MRI is one of the most traditional methods for the primary diagnostic tool for brain tumors. If the tumor is malignant for successful treatment, the necessary diagnostic and treatment planning measures must be taken quickly. Physicians can make accurate decisions by applying the following procedures. The necessary treatment can be done effectively. A computer-assisted diagnostic system, MRI, can help reduce the workload of physicians.

Keywords—Brain Tumor, Neural network, Convolutional NN, Classification,

I. INTRODUCTION

Brain tumor detection is still a very critical task in the medical field. Previously used Pneumoencephalography and had defects in cerebral angiography, using CT and MRI scan techniques to provide high-quality image processing results with surgeons' help. Therefore, a more accurate analysis is needed to correct brain tumors. In this paper, Matt Lab copies the next three steps of the process using tumor identification, morphological identification, processing and image processing. This subsequent processing creates a report that provides much less delay and effectively identifies the best brain tumors. Contains extensive calculations depending on the accuracy of medical imaging or processing analysis.

To accurately assess a tumor's presence in parts of the brain, do not take a 2D picture before removing the sound. The best algorithm for a high-quality image is looking for hybrid image welding. The classification process helps to identify, delimit and compress the object. The separation process helps to identify, identify and compress the object. In general, there are two methods. The classifier method uses an algorithm from the random forest. Our specific method is to extract less essence from pixel images. Training time decreases depending on the number of parameters. It includes the creation of data layers, closed layers and produce layers. In general, tumors are abnormal cells that spread throughout our bodies. However, in brain tumors, the pile of tissue in our brain cells expands quickly, and brain tumors are classified

according to the size of the primary and secondary sites and their origin [1].

Medical image processing is an area where more efficient calculation and accuracy are needed to make decisions. In general, empirical calculations involve complex geometric and algebraic problems and include growth estimates based on this revised figure. The only solution is to use experimental algorithms and geometric tools. The use of algebra is avoided as it exhibits ambiguity and intensity in the complex computational process. Although geometric algebra is a simple method with simple algebraic properties, counters using GA are easy to implement in object geometry. Segmentation and tumor detection, which creates a favorable environment for use in clinics [2, 3]. For effective modeling, useful algorithm tools are needed to create patterns according to the geometry of objects used in any computer graphic application. Relevant algebra offers many solutions to these problems because it allows us better to define the geometry of objects at a non-coordinated level. Acceleration is more critical than dimensional products. General representation in terms of calculations is free, and efficient and 3D shaped registration is explored. Shapes are curved surfaces. Depending on the elements' size, the new representation can be used to quadruple 4D Clifford algebra. It supports new-sized operations that speed up summations. Also, tumor size is determined by the size and diameter of the identified tumor area. This technique is excellent in splitting capacity and should not exceed computational time. When a tumor is detected, its symptoms are not evenly distributed over all the areas analyzed, making it less complicated. The neural gas algorithm solves this problem. In recent years, it has played an essential role in medical image processing analysis. More information around bone and soft tissue can be obtained in a single image by combining brain MRI and CT tumor images in this proposed work. Makes reasonable discretion for MRI and CT images. Fusion rules Fuse rotten images. Converts different wave methods and works on specific method wave based with best results using a specific quality matrix [4].

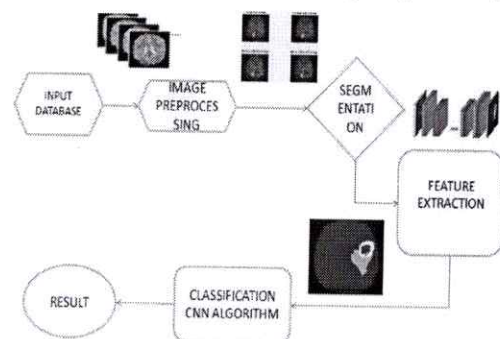
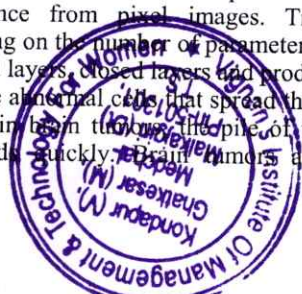


Figure -1: Brain Tumor Segmentation using Hybrid Fusion-Neural Filter(HFNF)



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**International Conference On Emerging Trends in Engineering,
Management, Arts, Science and Technology (ICETEMAST – 2020)**
5th January, 2020, Kolkata, West Bengal, India

CERTIFICATE NO : ICETEMAST /2020/ C0120345

**Privacy-Preserving K-Nearest Neighbor Computation in Multiple
Cloud Environments.**

P VINAYBHUSHAN

Research Scholar, Ph. D. in Computer Science & Engineering, Sri Satya Sai University of
Technology & Medical Sciences, Sehore, M.P., India

CERTIFICATE NO : ICETEMAST /2020/ C0120346

**Text Data Linkage of Different Entities Using OCCT-One Class
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Research Scholar, Ph. D. in Computer Science & Engineering, Sri Satya Sai University of
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**Investigating Open Issues in Swarm Intelligence for Mitigating
Security Threats in MANET**

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Technology & Medical Sciences, Sehore, M.P., India



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