Dr.B.VANATHI
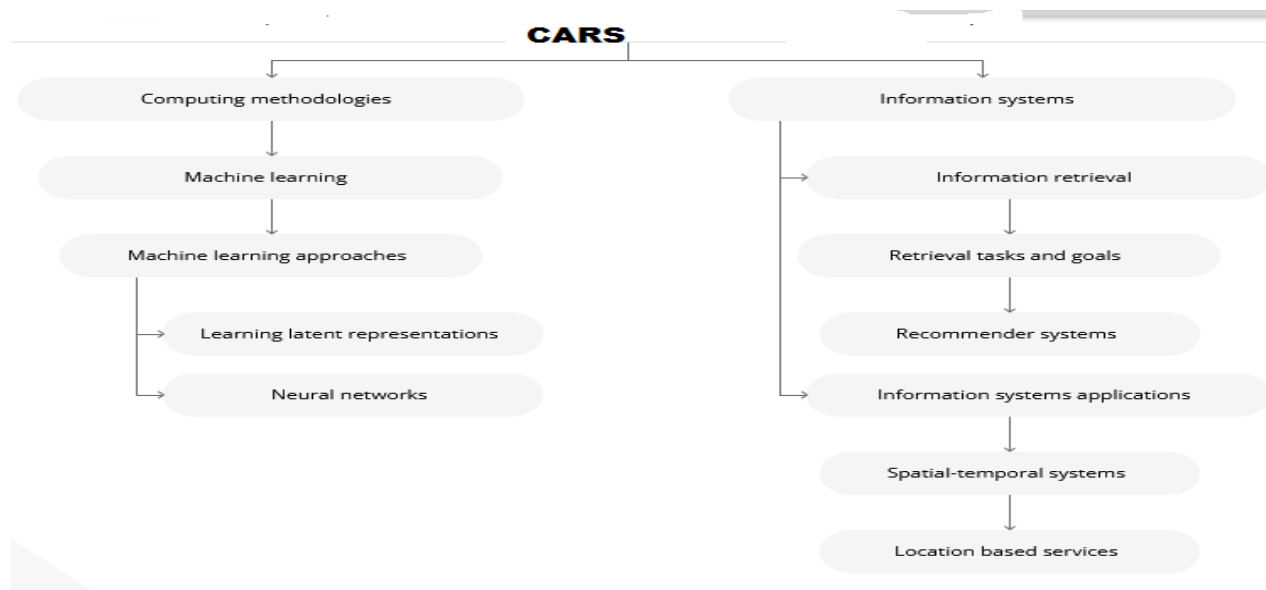
Ph.D,Anna University
Professor, Computer Science and Engineering
Phone: 044 – 27454784/8124
Email:vanathib.cse@srmvalliammai.ac.in

Areas of Research

➤ Context Aware Computing – Context-Aware Recommender Systems (CARS)
➤ Ontology - An ontology-based context model in intelligent environments
➤ Machine Learning, Deep Learning – Hand Written Recognition, Medical Image Analysis
➤ Image processing – Object Recognition and Detection
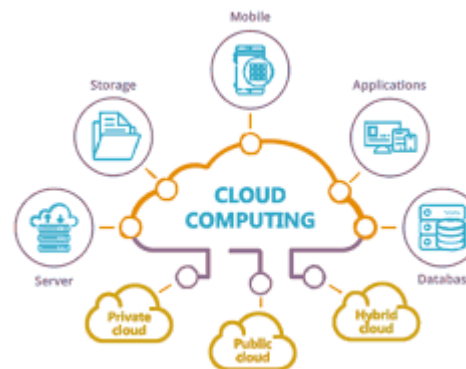➤ Cyber Security – Vulnerability Assessment

Dr. V. Dhanakoti
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Professor, Computer Science and Engineering
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Areas of Research

- **Network Security** : Security, Routing, Cryptography, IDS, IPS and Firewalls

- **Cloud Computing** : Cloud Security, Cloud Scalability

- **Big Data** : Data Science, Predication Algorithms, Transaction processing systems, Customer databases, Social networks and Data optimization

Dr. A. Samydurai
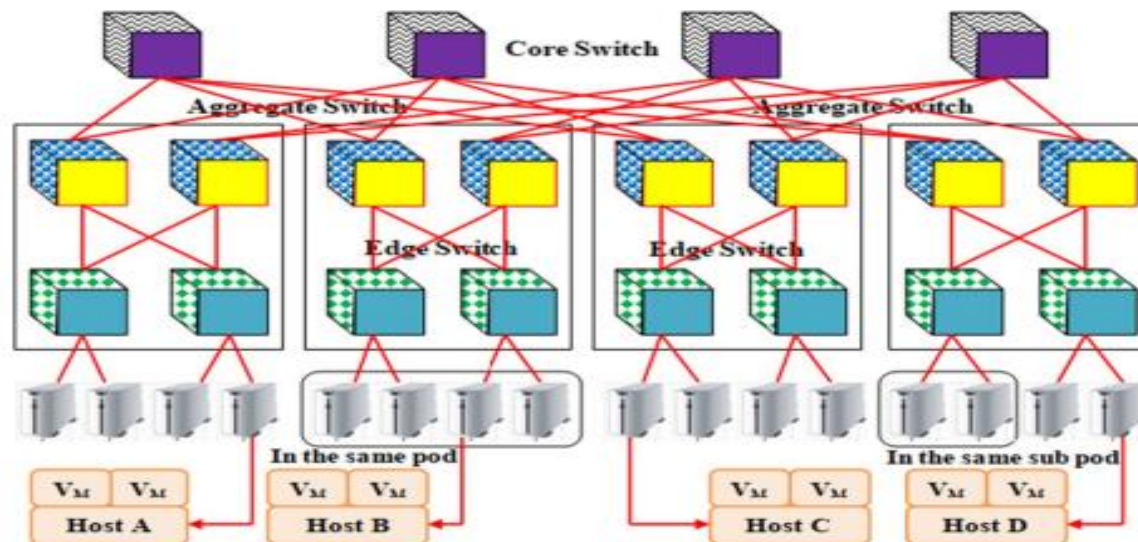## B.E., M.E., PhD.,
Professor, Computer Science and Engineering
044 – 27454784 / 726, 27451498
samyduraia.cse@srmvalliammai.ac.in

Areas of Research

➢ Fault Tolerance - Physical machine, Virtual machine

➢ Internet of Things – Data science, feature selection, healthcare monitoring

➢ Cloud Computing - Non-Relational database, document-oriented database
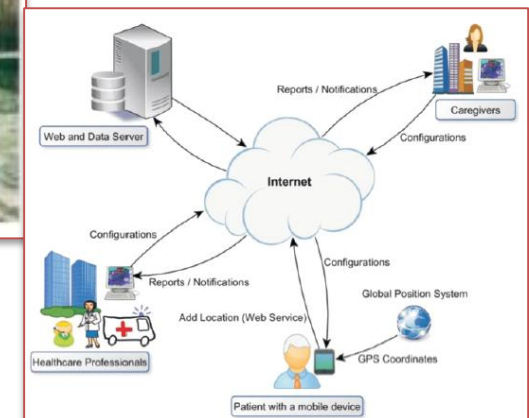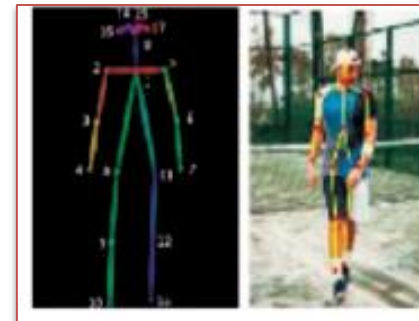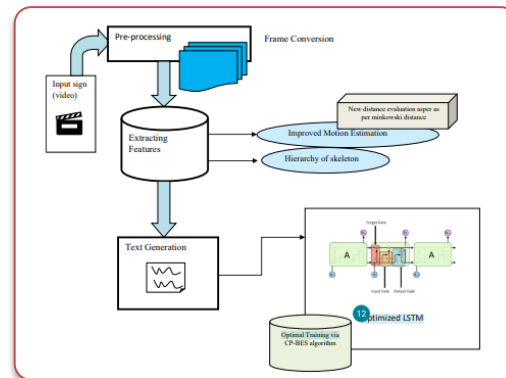
➢ Deep Learning – Convolutional Neural Networks, DCNN

Dr. B. Muthusenthil
B.E, M.E, PhD, PDF(South Korea) India
Professor, Computer Science and Engineering
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Areas of Research

➢ Medical Applications – Alzheimer Patients analysis, Stress analysis, Fitness Analysis

➢ Internet of Things – Autonomous Robots ,Wearable Sensors, Data optimization, IoT in surveillance

➢ Wireless Sensor Networks - Network Security, Secure Geographical Routing, Privacy Preservation, Light weight cryptography

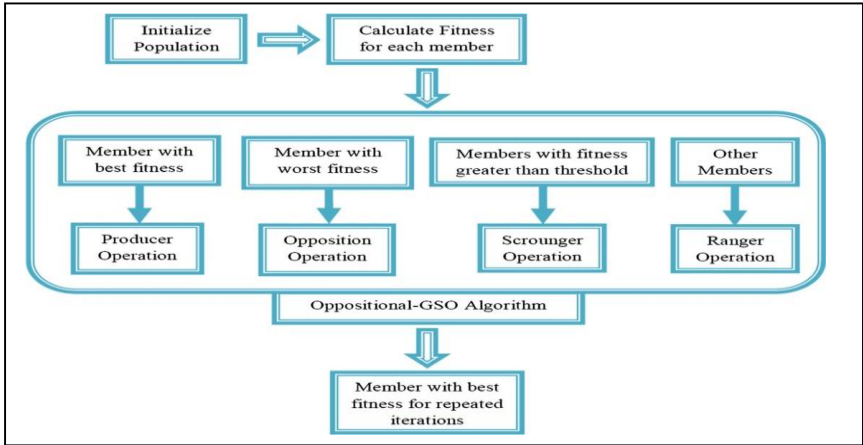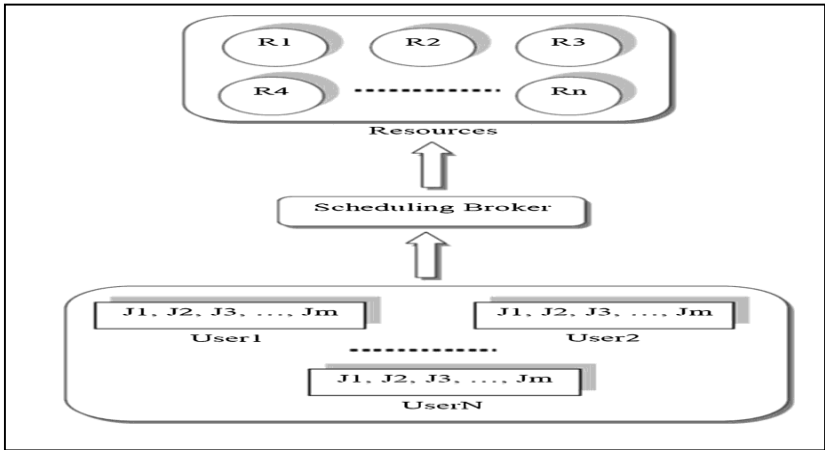➢ Video Security – Image data hiding, Zero Steganography, Sign Language Video to Text Conversion

Dr. S. PARTHASARATHY,
M.C.A.,B.Ed.,M.Phil.,M.Tech.,M.B.A.,Ph.D.,
Associate Professor, Computer Science and Engineering
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Areas of Research

➢ Scheduling algorithm using heuristic search methods in cloud computing environment - Group Search Optimization (OGSO)

➢ Enhancement of Group Search Optimizer – Oppositional GSO Algorithm

➢ Improve adoption and ` rate in international business – Information Technology System Implementation

➢ Waste Management Process – Artificial Intelligence Techniques

➢ Global Warming – ICT based solution

➢ Chimp optimization algorithm – IoT based solution

➢ Overload detection - Virtual machine migration

R1	R2	R3
R4	....	Rn

Resources

Scheduling Broker

J1, J2, J3, ..., Jm	J1, J2, J3, ..., Jm
User1	User2

....

J1, J2, J3, ..., Jm

UserN

Initialize Population → Calculate Fitness for each member

Member with best fitness	Member with worst fitness	Members with fitness greater than threshold	Other Members
Producer Operation	Opposition Operation	Scrounger Operation	Ranger Operation

Oppositional-GSO Algorithm

Member with best fitness for repeated iterations

Dr. S.K.SARAVANAN

MCA.,M.Tech.,PhD.

Assistant Professor(Sel.G), Computer Science and Engineering

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Areas of Research

➢ Machine Learning – Hand Written Recognition, Medical Image analysis

➢ Data Mining and Data Analytics– Credit Card Fraud Detection, Secured Online Transaction

➢ Mobile Commerce– Security in mobile commerce

➢ Cloud Computing – Security aspects in Cloud

Ms.G.Sangeetha
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Areas of Research

➤ Big data Analytics –Disease prediction , Recommendation System, Smart Cites, Web Server Log Analysis

➤ Medical Applications – medical data analysis , image processing

➤ Internet of Things -Wearable Sensors, IoT in surveillance

➤ Cloud Computing – Storage , Scheduling ,load balancing in cloud.

➤ Machine learning – Sales prediction, Sentiment Analysis

Dr. M. MAYURANATHAN
B.E., M.Tech., Ph.D., India.
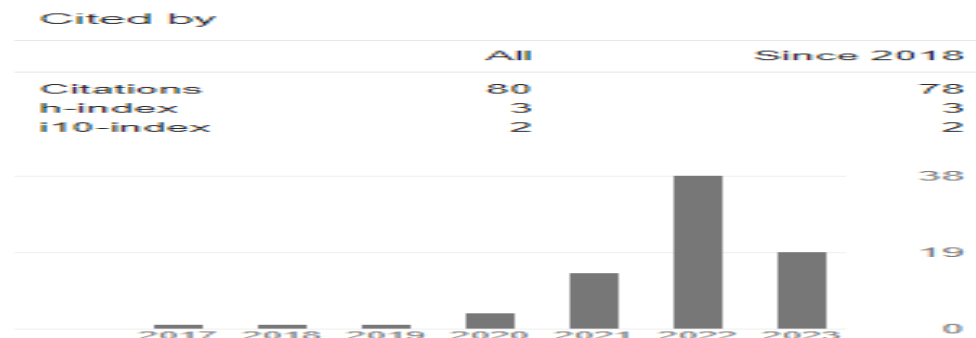### Assistant Professor (Sel. Gr.), Computer Science and Engineering
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Areas of Research

➢ Cloud Security– Methods to mitigate all the attacks in cloud, IDS, IPS and vulnerability in cloud.

➢ Internet of Things – Autonomous Robots, Wearable Sensors, Data optimization, IoT in surveillance.

➢ Block Chain – Security for proper data transfer, short time data transfer and preservation of data over cloud.

➢ Video Security – Image data hiding, Zero Steganography, Sign Language Video to Text Conversion.

➢ Image Processing – Recognition of objects over video streaming, Prevention of insecure events.

Cited by	All	Since 2018
Citations	80	78
h-index	3	3
i10-index	2	2

Mr. V. Santhana Marichamy

M.C.A, M.E, (Ph.D)
Assistant Professor, Computer Science and Engineering
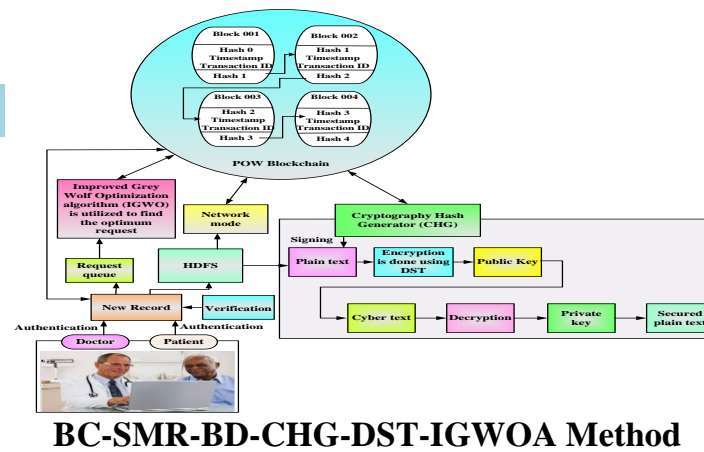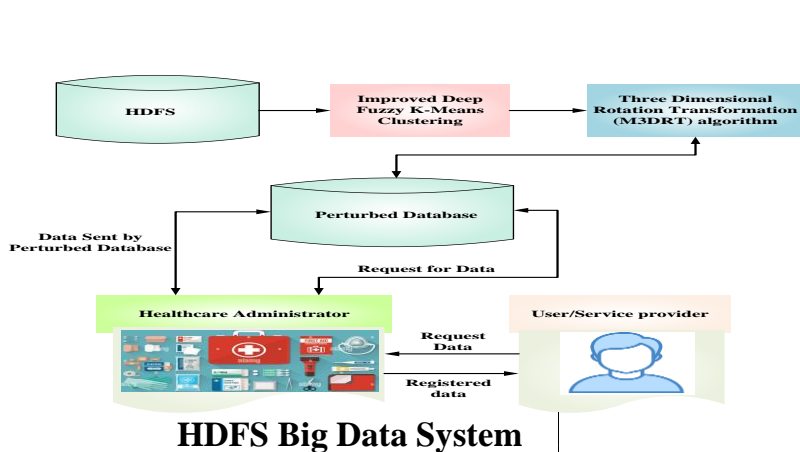044 – 27454784 / 726, 27451498

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Areas of Research

➤ **Big Data** – HDFS, IDFKM-M3DRT method, Improved deep fuzzy k-means clustering

➤ **Data Security** – Analysis of Security level, Analysis of Efficiency, Precision, Privacy Preservation

Blockchain - Discrete Shearlet Transform (DST) for encryption, Crypto Hash Signature Token for Securing Medical Records in Blockchain

HDFS Big Data System

BC-SMR-BD-CHG-DST-IGWOA Method

Dr. G. Kumartesan

B.E, M.E, PhD

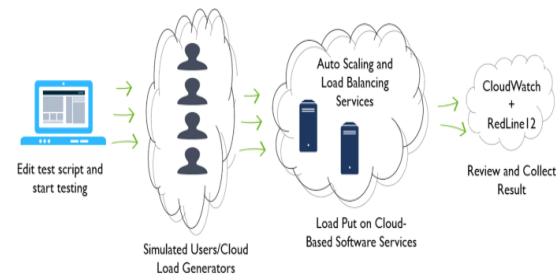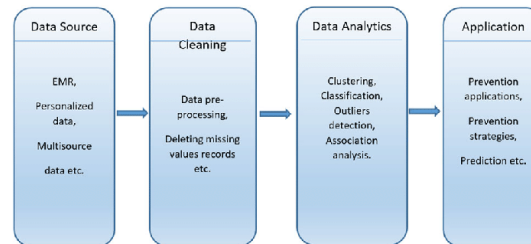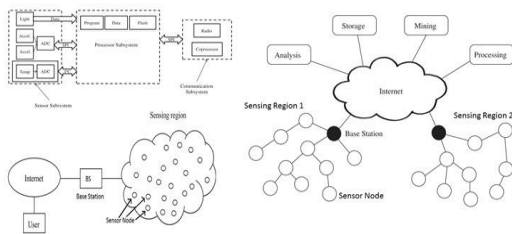## Assistant Professor, Computer Science and Engineering

044 – 27454784 / 726, 27451498

Areas of Research

➢ Internet of Things – Wearable Sensors, Data optimization, IoT surveillance

➢ Wireless Sensor Networks - Security, Routing, Privacy Preservation

➢ Medical Applications –Patient disease analysis, Fitness Analysis

➢ Cloud Computing - Cloud Security, Cloud Scalability

WIRELESS SENSOR NETWORKS (WSN)

Dr. K. Devi
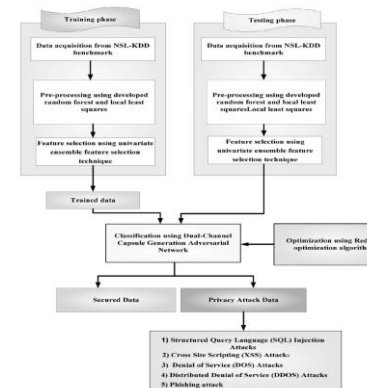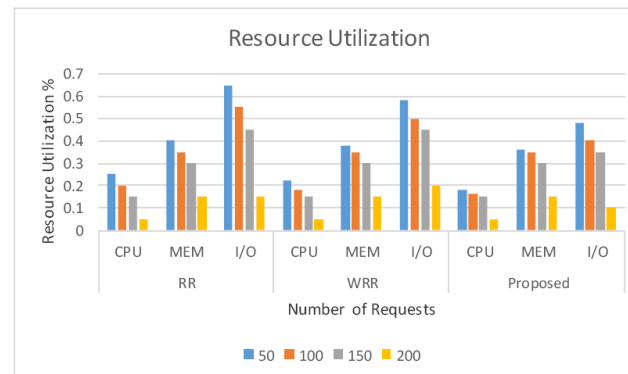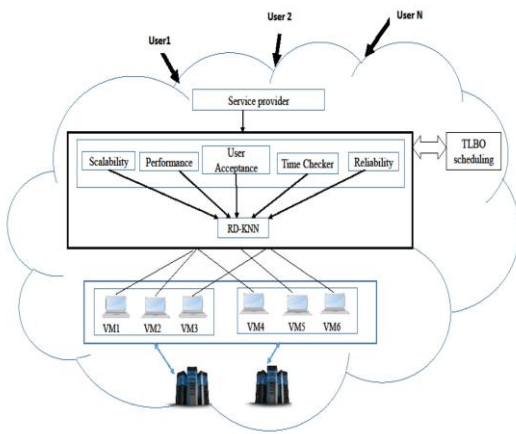## Ph.D,Anna University
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Phone: 044 – 27454784/8124
Email:devik.cse@srmvalliammai.ac.in

Areas of Research

➤ Cloud Fault Tolerance – Proactive Fault tolerance, Reactive fault tolerance,
➤ Cloud Scheduling Algorithm-Static scheduling and Dynamic scheduling
➤ Cloud Security- Network Security, Privacy Preservation, cryptography
➤ Machine Learning Algorithm –Decision making,VM Status prediction.
➤ Intrusion Detection-Privacy attack Detection in Cloud Environment

Ms.A.LALITHA

B.E, M.E, India
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Areas of Research

➤ Deep Learning–Convolution Neural Network, Recurrent Neural Network
Deep learning is the branch of machine learning which is based on artificial neural network architecture. An artificial neural network or ANN uses layers of interconnected nodes called neurons that work together to process and learn from the input data.

Internet of Things

➤ Virtual reality-computer-based virtual experience in which you can control some characters or activities within the software

➤ Cloud Computing-RSA Algorithm named after its inventers (Rivest, Shamir, and Adelman) is best suited for data traveling to/from Web and Cloud based environments. In working with Cloud Computing, the end user data is first encrypted and then stored on the Cloud

Ms.Shanthi S
B.E, M.E, (Ph.D) India
Assistant Professor, Computer Science and Engineering
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Research Area:

- ❖ Deep Learning-Convolution Neural Network,Recognition of behavior

- ❖ CNN-Image classification ,Recognition of behavior

- ❖ Medical Applications – image processing,medical image classification,Generation of images

- ❖ Internet of Things –Wearable Sensors, IoT in surveillance ,Smart Decision

- ❖ Cloud Computing – cloud data Storage , Cloud Security,Cloud Scalability

- ❖ Machine learning – Image-Based Applications,Reinforcement learning,K nearest neighbor.Decision tree.Support Vector Machines,Naive Bayes

- ❖ Computer vision -image segmentation ,object detection

Ms.Suma.S

B.E, M.E India

Asst Professor, Computer Science and Engineering

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Areas of Research

➢ Cloud Computing – Green Cloud, Cloud cryptography, Scheduling, Load balancing in cloud.

➢ Big data Analytics -Predictive Analytics, Fraud and Risk detection, Advertisement optimization

➢ Machine learning – Image based applications, Object detection with deep learning

➢ Artificial Intelligence and Robotics- Robot perception and learning, Autonomous vehicles
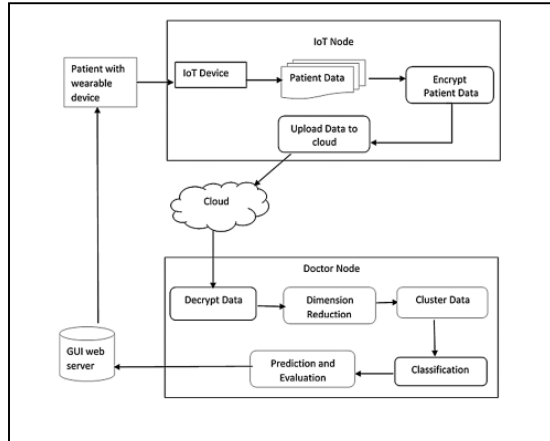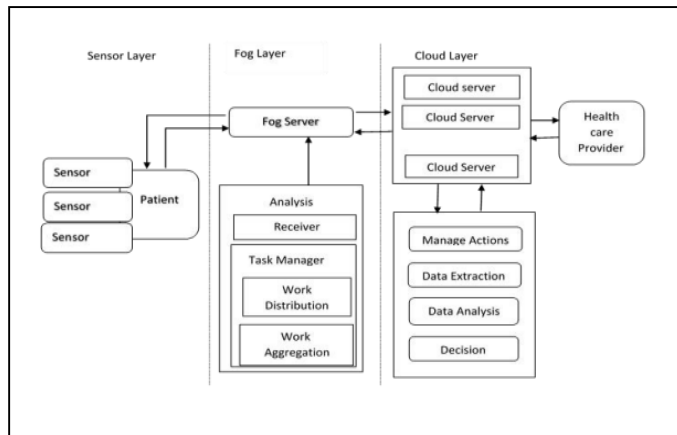
Dr.S.BENILA M.E, PhD

Assistant Professor(Sr.G),
Computer Science and Engineering
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benilas.cse@srmvalliammai.ac.in

Areas of Research

➢ Machine Learning, Deep Learning – Dimension reduction,Medical Data analysis, Heart disease Prediction

➢ Fog/Edge Computing – Data processing in Fog, Data Offloading

➢ Network Security- Security in cloud and communication networks

➢ Internet of Things – smart healthcare automation, smart transportation

Dr.C.Pabitha., B.E, M.E, Ph.D.

Assistant Professor, Computer Science and Engineering

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Areas of Research

- **Deep Learning:-** Image Classification, Emotion Recognition, Voice Recognition, Character Recognition, Human Pose Detection, Gesture Recognition, Medical Image Processing, Agriculture, Healthcare , Fraud Detection, Gaming.

- **Internet of Things :-** Wearable Technology, Smart Home Applications, Healthcare, Agriculture , Industrial Automation.

- **Cloud Computing:-** Business Applications, Cloud Storage and Security, Education Applications, Social network Applications.

- **Big data Analytics:-** Education sector, Energy sector, Media and Entertainment sector, Virtual Assistant, Automated Driving.

- **Natural Language Processing:-** Sentiment Analysis, Language translator, Voice Assistant.

Mr. N. LEO BRIGHT TENNISSON
M.C.A., M.TECH., SET, NET
Assistant Professor (Sr. G),
Computer Science and Engineering
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Area of Research

- **Machine Learning/Deep Learning-** Data classification and prediction.

- **Geographic Information System-** Analysis of structures, rocks, etc....

- **Internet of Things-** Capture, transmission of GIS data.

- **Image processing-** Processing of GIS images

Dr.S.Venkatesh
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Areas of Research

➢ Wireless Sensor Networks- Lifetime improvement, energy efficiency, load efficiency, qulaity detection improvement.

➢ Artificial intelligence- Technologies for product improvement and its lifecycle management.

➢ Internet of Things –IoT in surveillance, smart city development,smart vehicles.

➢ Machine learning – Clustering, Regression , supervised learning, models

➢ Blockchain technologies- Distribution, tokenization, decentralization.

Ms.A.Vidhya
B.E, M.E, (Ph.D) India
Assistant Professor
Computer Science and Engineering
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Areas of Research

➢ Deep Learning–Convolution Neural Network, Recurrent Neural Network

➢ Medical Applications – Medical image analysis , Image processing

➢ Internet of Things **-IoMT**

Ms.V.Prema

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Assistant Professor
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Areas of Research

➢ Deep Learning–Convolution Neural Network, Recurrent Neural Network

➢ Internet of Things **-IoMT**

➢ **Virtual reality**-computer-based virtual experience in which you can control some characters or activities within the software

➢ **Cloud Computing**-RSA Algorithm named after its inventers (Rivest, Shamir, and Adelman) is best suited for data traveling to/from Web and Cloud based environments. In working with Cloud Computing, the end user data is first encrypted and then stored on the Cloud

Mr.T.RAJASEKARAN

B.E., M.Tech., (PhD)
Assistant Professor (Sr.G), Computer Science
and Engineering
044 – 27454784 / 726, 27451498
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Areas of Research

➢ Blockchain – Crypto currency, Blockchain in IoT Security, AI, Social Networks

➢ Big Data Analytics – Recommendation System, Smart Cites, Web Server Log Analysis

➢ Internet of Things – Wearable Sensors, IoT in Surveillance

➢ Machine Learning, Deep Learning – Hand Written Recognition, Medical Image analysis

Mr. K.SHANMUGAM
B.E, M.E, (PhD)
Assistant Professor(Sr.G), Computer Science and Engineering
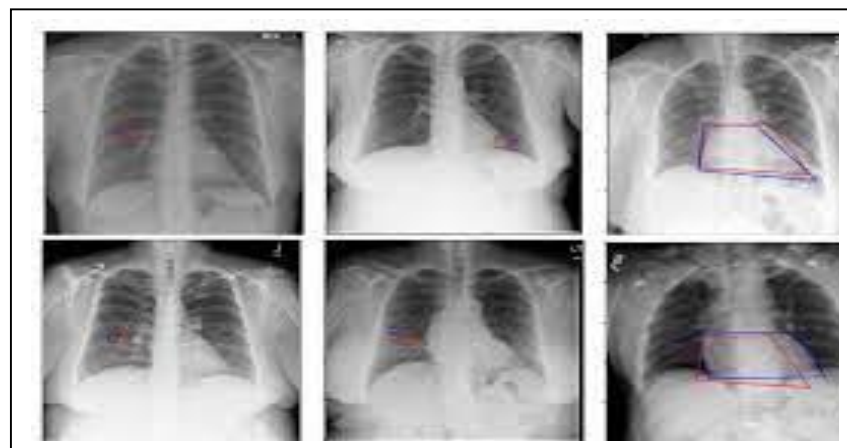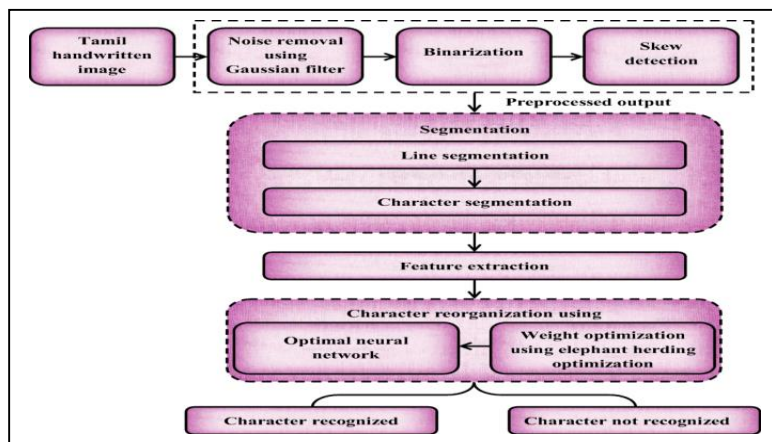044 – 27454784 / 726, 27451498
shanmugamk.cse@srmvalliammai.ac.in

Areas of Research

- **Machine Learning, Deep Learning** – Hand Written Recognition, Mediacal Image analysis
- **Image Processing** – Object Recognition and Object detection, style transfer
- **Mobile Commerce** – Security in mobile commerce
- **Tamil Computing** – POS Tagger, Morphlogical Analyzer and Generator, Machine Translation, Computational Lingustics
- **AR and VR in Tamil**
- **Artificial Intelligence in Tamil and Cyber Security** – Vulnerability Assesment

Ms.ANITHA R,
B.E, M.E, (Ph.D) India,
Assistant Professor(Sr.G),
Computer Science and Engineering,
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Area of Research

- **Blockchain Networks-** Security of Networks,Distribuuted Ledger,Mining….

- **Internet of Things-** Analysis of different devices,capture and connecting devices with internet.…

- **Cloud Computing-** Types of clouds,Cloud infrastructure,Application of Cloud… .

Ms. M. Priyadharshini
B.E,M.E, (Ph.D) India
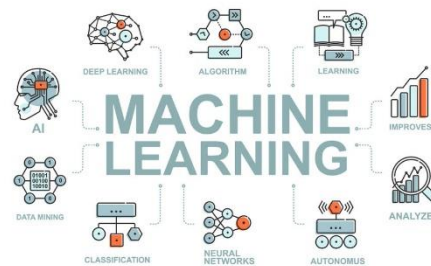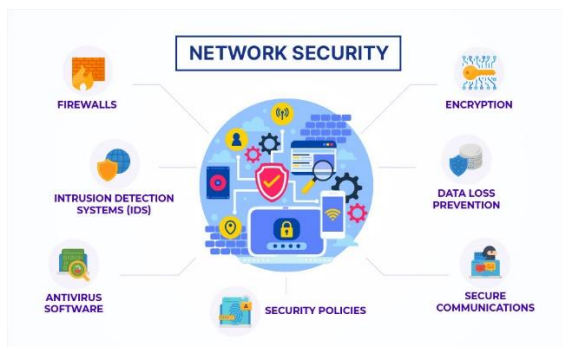**Assistant Professor (O.G),**
Computer Science and Engineering
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Areas of Research

➢ Network Security – Security, Routing, Cryptography, IDS, IPS and Firewalls
➢ Machine Learning– Hand Written Recognition, Medical Image analysis
➢ Network Traffic Monitoring - Detecting malware

Ms.G.Sathya
B.E, M.Tech
Assistant Professor(O.G), Computer Science and Engineering
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Areas of Research

- ➢ Cyber Security- Image encryption Techniques,Decomposition Method,Scrambling Techniques
- ➢ Image Processing – Pattern Recognition,Edge detection,Segmentation
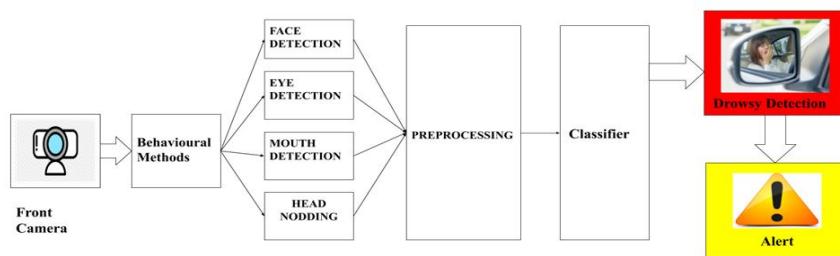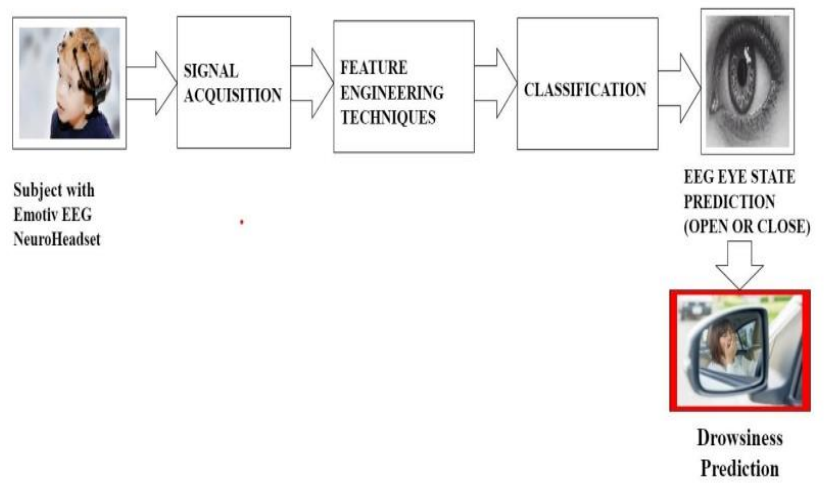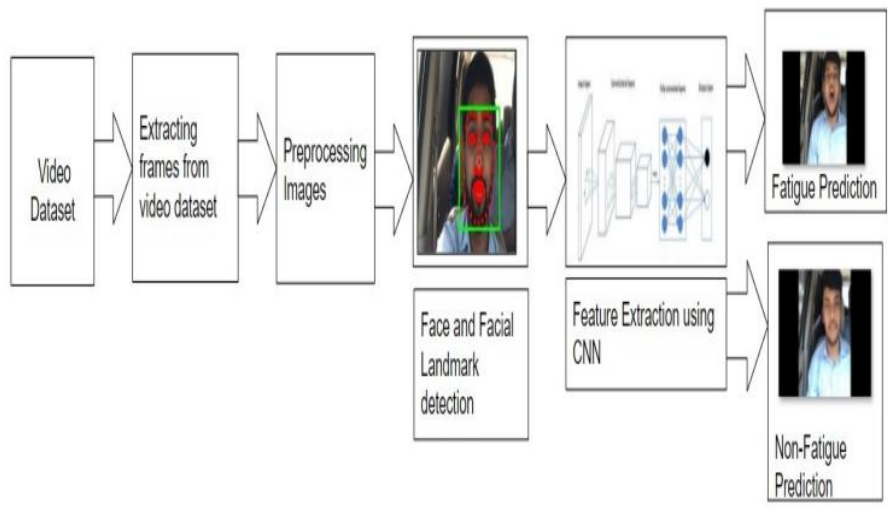- ➢ IOT(Internet Of Things)-Security Attacks,Survey and Prevention

Mrs. V.Vijay Priya
B.E, M.E, (PhD)
Assistant Professor (O.G), Computer Science and Engineering
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Areas of Research

➤ Machine Learning, Deep Learning – Image Detection, Video Analysis, Medical Image Analysis, Classification and Prediction, Emotion Detection.

➤ Image Processing – Object detection, Face detection, Different Feature Engineering techniques.

➤ Augmented Reality- In Education

➤ Internet of Things- Wearable sensors, Web Application.

Video Dataset → Extracting frames from video dataset → Preprocessing Images → Face and Facial Landmark detection → Feature Extraction using CNN → Fatigue Prediction / Non-Fatigue Prediction

Subject with Emotiv EEG NeuroHeadset → SIGNAL ACQUISITION → FEATURE ENGINEERING TECHNIQUES → CLASSIFICATION → EEG EYE STATE PREDICTION (OPEN OR CLOSE) → Drowsiness Prediction

Ms. B. CHRISTINA SWEETLINE
B.E, M.E, (PhD)
Assistant Professor(O.G),
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Areas of Research

- Big Data Analytics
- Machine Learning
- Deep Learning
- Medical Image Processing