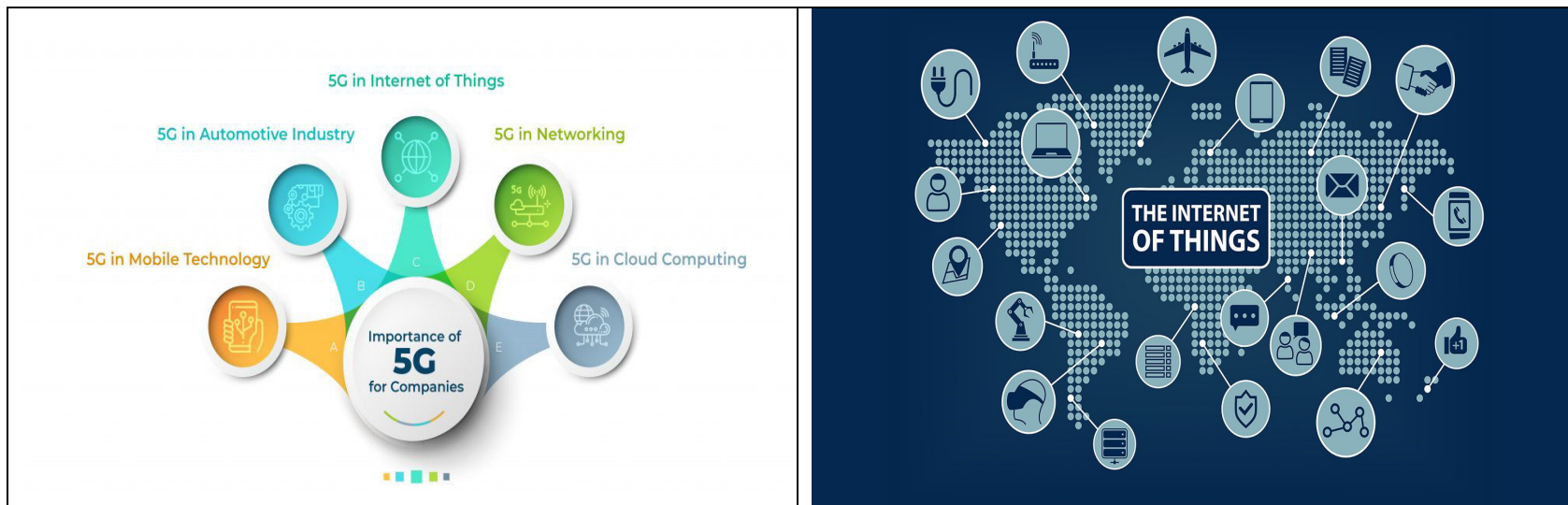






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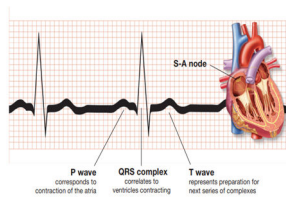
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Areas of Research

- **Medical Applications** - ECG signal analysis, MRI Brain image analysis, Femur bone architecture Analysis , Ultrasound Imaging analysis
- **Embedded System and IoT**- Robots, Wearable Sensors, Home automation, LoRaWAN, LiFi, BLE
- **Biometrics** - Face recognition, Iris and fingerprint recognition

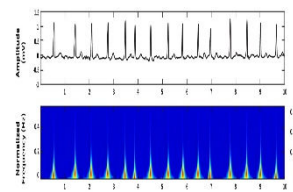
ECG Signal Analysis



ECG Signals



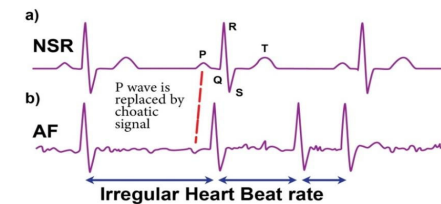
**Signal
Denoising &
Processing**



Scalogram

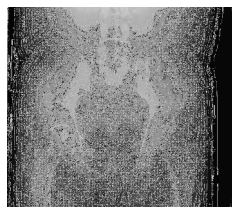


**Deep
Learning**



Classification

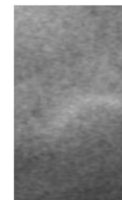
Femur Bone Analysis



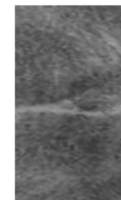
Anterio - posterior of Digital pelvis image



Femur bone image



ROI of tensile region of femur bone



**Image Pre-
processing,
Transform
methods,
Machine
Learning**



Healthy one

Osteoporosis



Dr. RAMESH S
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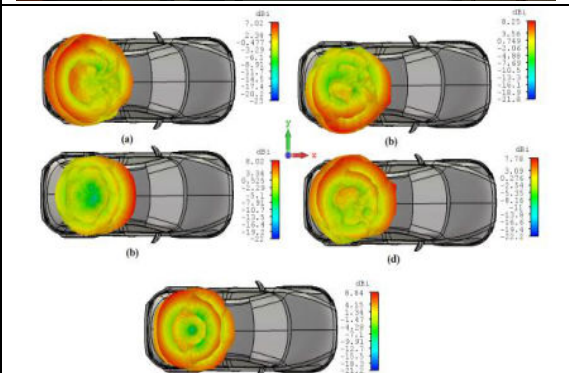
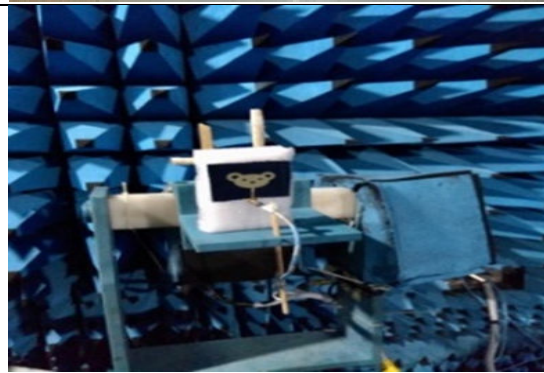
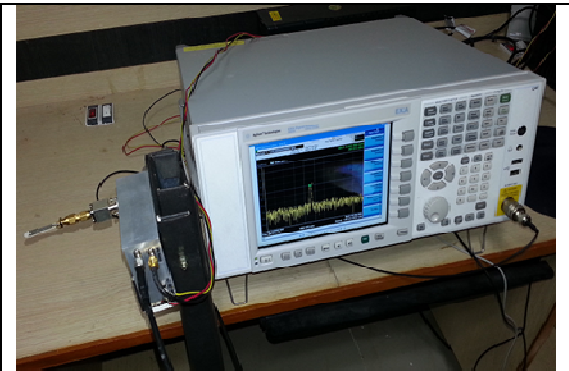
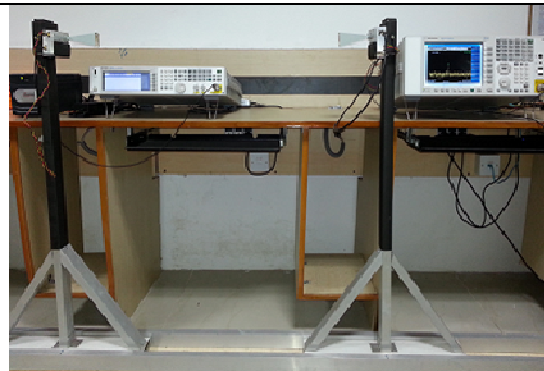
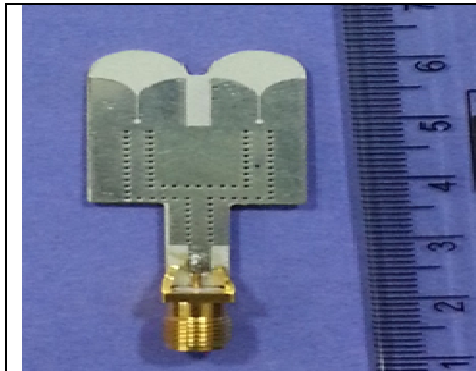
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Areas of Research

- Antennas: Millimeter wave, Wearable, Vehicular, Satellite
- Communications: Satellite, Indoor, Vehicular, Body area networks





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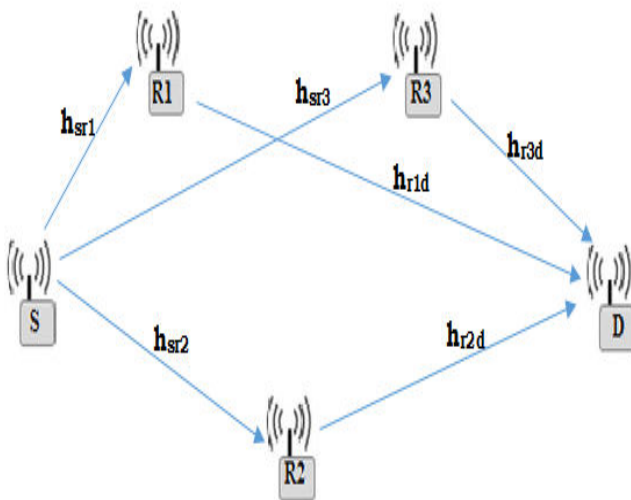
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Areas of Research

- Wireless Sensor Networks** - Medical Applications, Air Quality Monitoring, cooperative communication
- RF Energy Harvesting** - energizing low power devices, sensor nodes



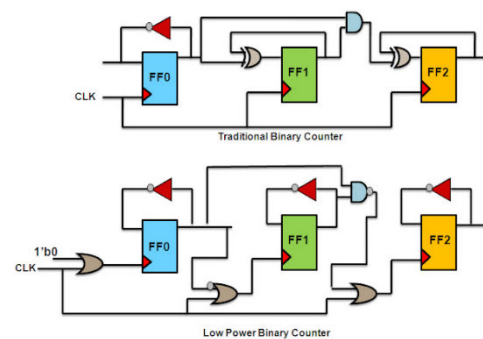
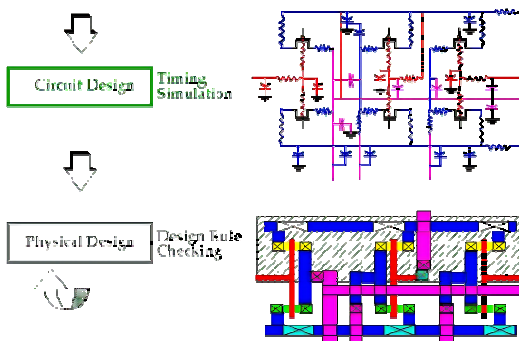


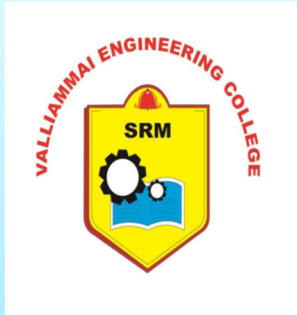
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Areas of Research

- **VLSI** - Low power VLSI Design, Design for Testability, VLSI Testing and Verification, FPGA Programming, Reconfigurable architectures, BIST, Scan insertion, ATPG.
- **Expertise in C, Verilog, System Verilog.**
- **Proficient in** Scripting languages like TCL, Python.



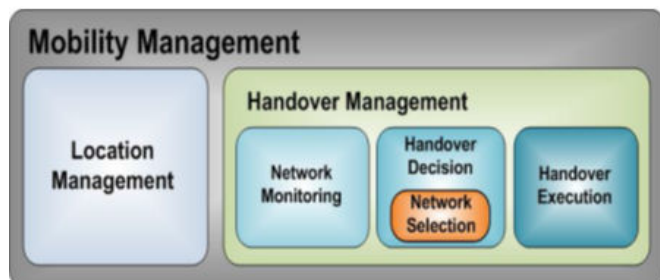


Dr. C. Amali
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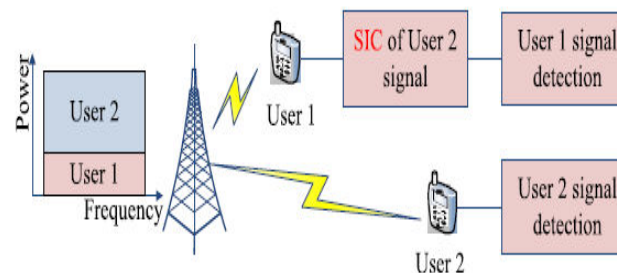


Areas of Research

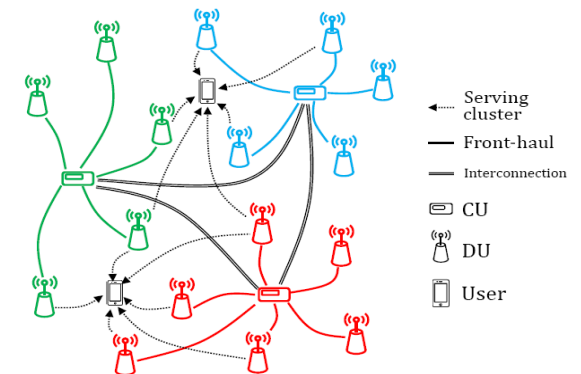
- ✚ **Wireless Communication and Networks** - Quality of Service, Interference management, NOMA-MIMO Networks
- ✚ **User Centric Cell Free Massive MIMO** - Energy efficiency and Spectral Efficiency Trade off



1. Quality of Service



2. NOMA



3. User centric Cellfree Massive MIMO



Mr. S. Senthilmurugan

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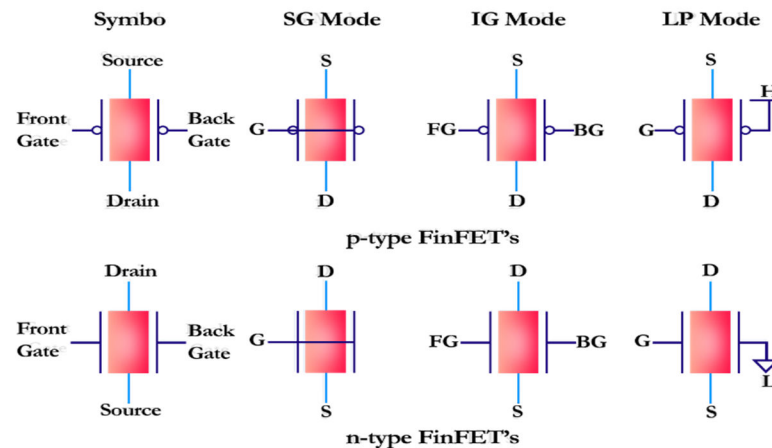
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Areas of Research

- **Low Power VLSI Circuits** - Static and Dynamic Power Analysis, Activity Factor and Short Circuit Power. Power Management in Integrated Circuits. Low power VLSI circuits design strategies and methodologies.
- **Hardware Software Co-design** - Analog and Digital Circuit design, Static Timing Analysis, FinFET's.
- **Internet of Things** - Wearable Sensor based applications, Delay and Power optimization, IoT based surveillance.





Dr. C. Saravanakumar

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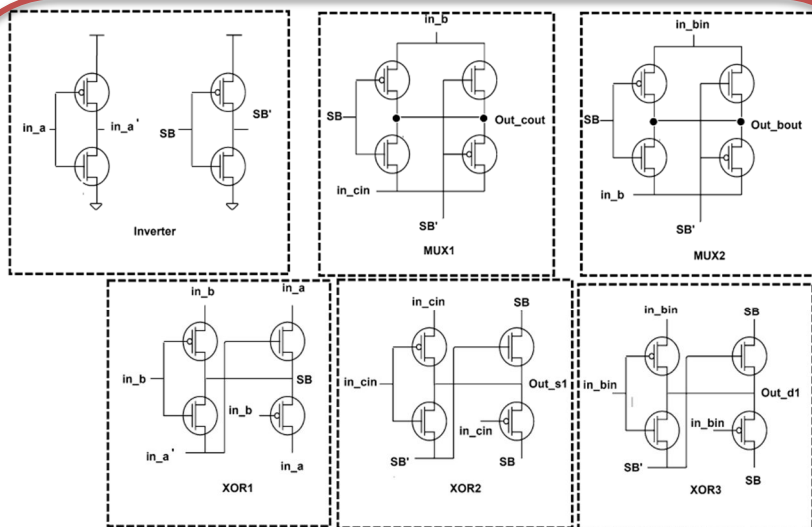
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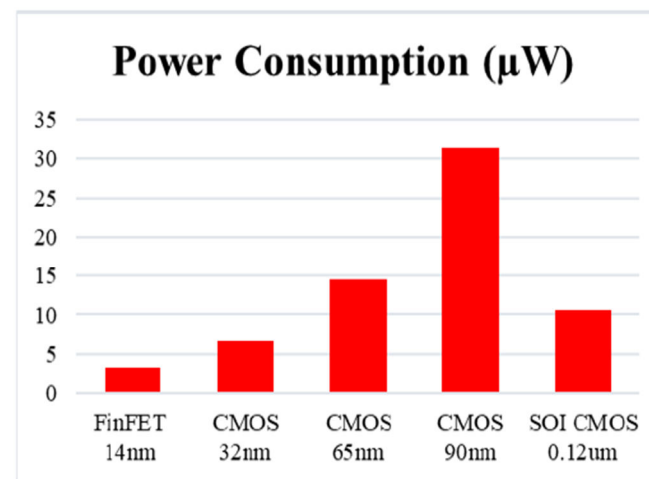


Areas of Research

- **Signal Processing** - VLSI Signal Processing, Machine Learning in Signal Processing.
- **Bioinformatics** - Signal Processing in Disease Identification.
- **FPGA Prototype** - Machine Learning in Power analysis, Implementation of arithmetic units.



Arithmetic Unit Design



Power Consumed by the design for various Technology files



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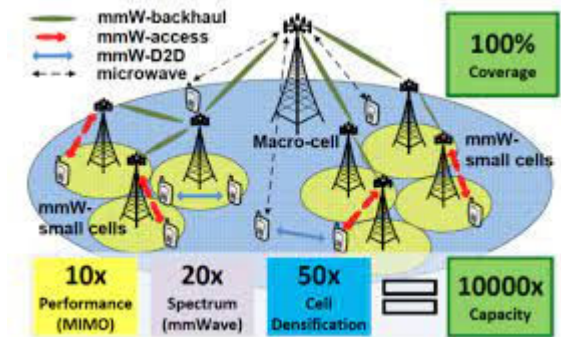
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Area of Research

- **MIMO Wireless Communication** - Ultra massive MIMO systems for 6G Communication.
- **Ad-hoc Wireless Networks** - Deployment scenario for 5G Networks.
- **Millimeter wave Communication** - 6G Vehicular Communication.



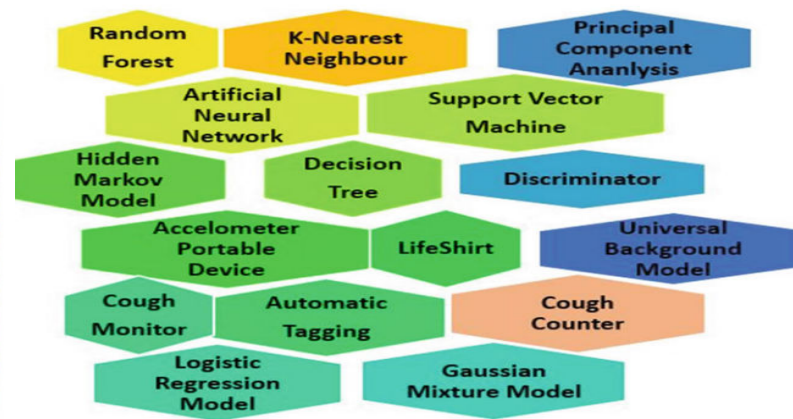


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Areas of Research

- **Image and video processing**- Denoising, Object recognition, Surveillance.
- **Internet of Things** -Low power IoT devices, IoT devices for medical and monitoring applications
- **Low power applications**- Reconfigurable SoC, Energy and power analysis



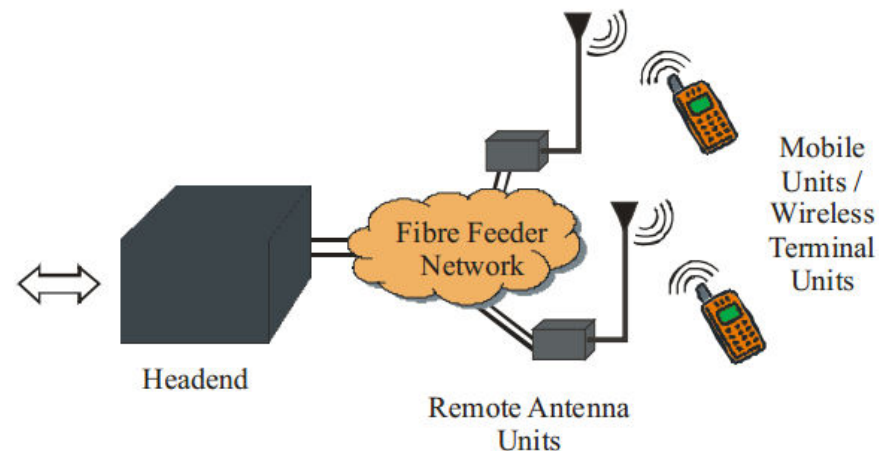


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Area of Research

- **Radio over Fiber Technology** - RoF fronthaul link for 5G transmission.
- **RF-Passive Optical Networks** - DSP assisted optical network for analog mobile fronthaul.
- **Optical Networks for 5G Communication** - Emerging Optical network for 5G and RAN deployment.





Mr. A. Pandian

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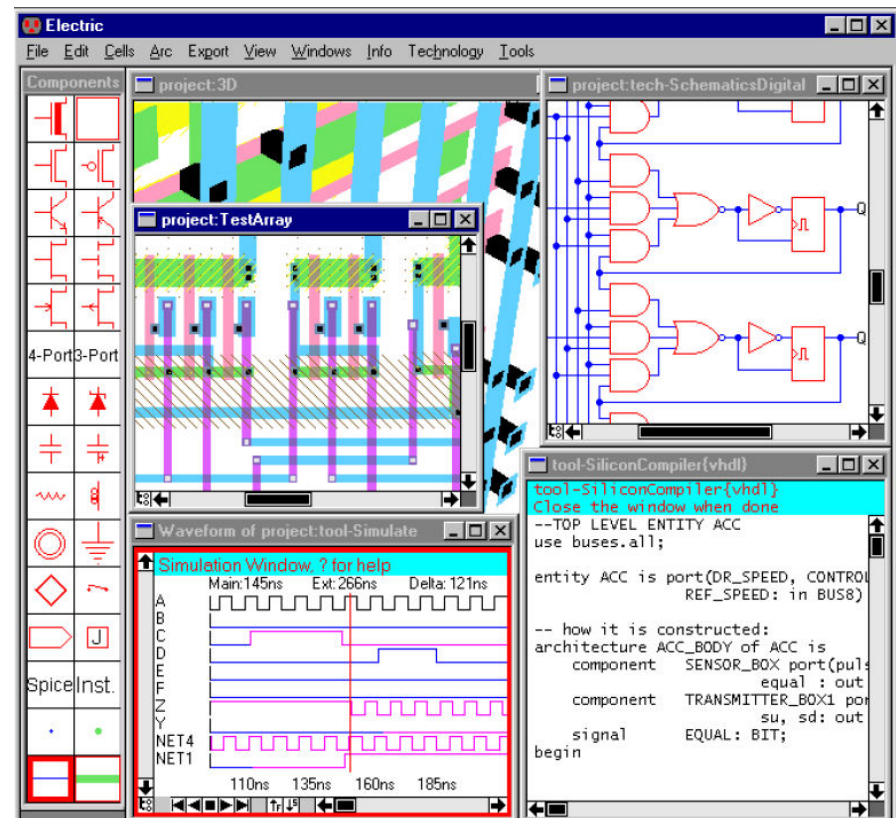
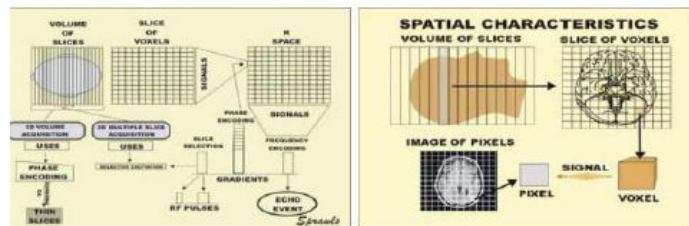
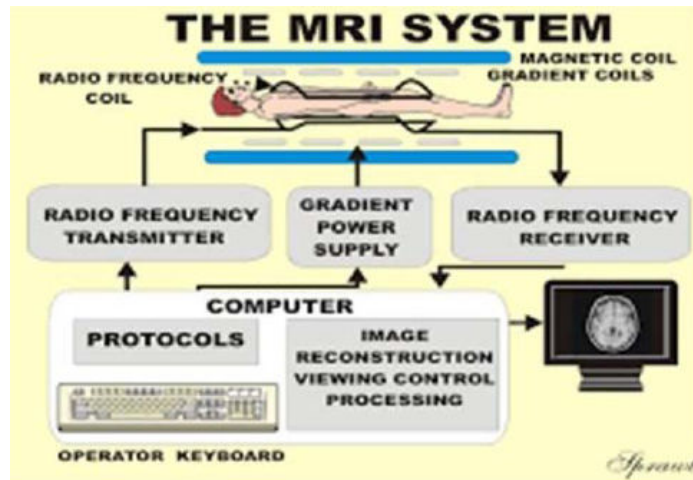
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Areas of Research

- Medical image - MRI image
- VLSI - Layout design





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Areas of Research

- **Medical Applications** - Smart patient health monitoring system
- **Internet of Things** - Wearable technology, Energy efficient monitoring system



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Areas of Research

- Power Electronics
- Control Systems
- Soft Computing



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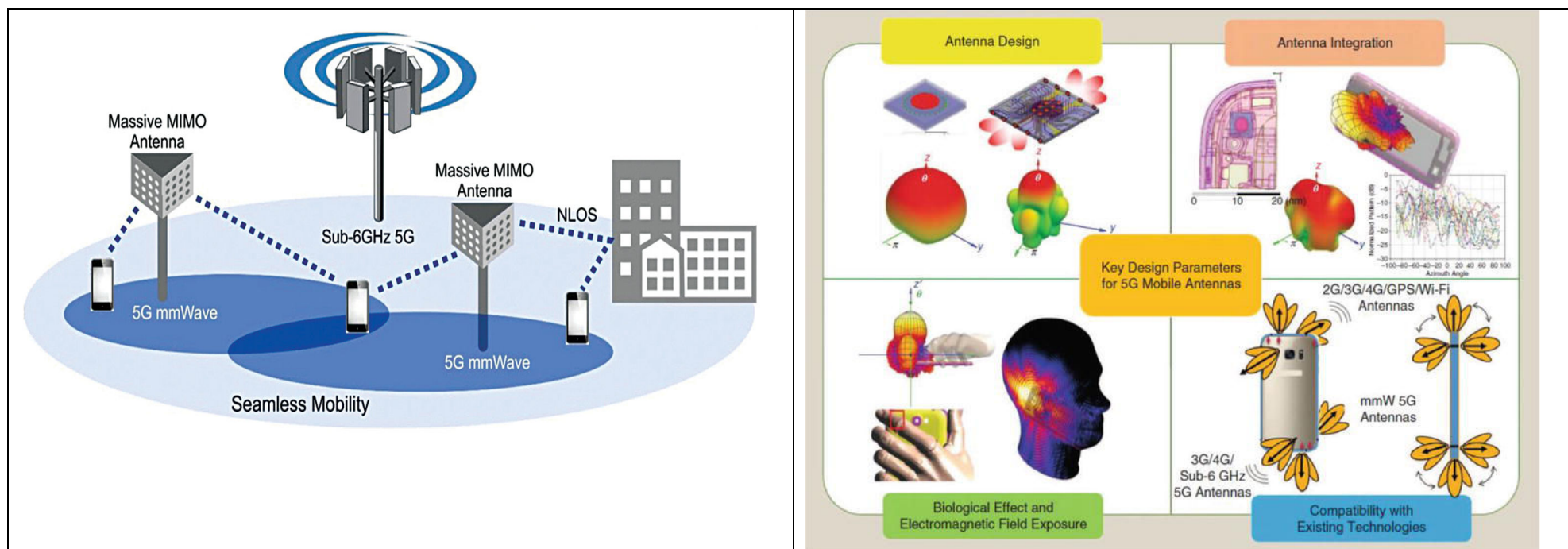
ghananjeyanr.ece@srmvalliammai.ac.in

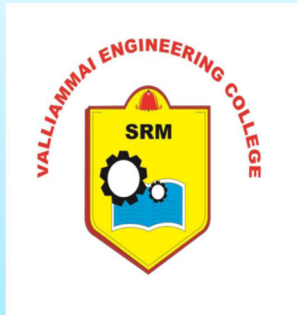
<https://vidwan.inflibnet.ac.in/profile/380777>



Areas of Research

- MIMO antenna design for 5G Applications





Ms. S.ABIRAMI

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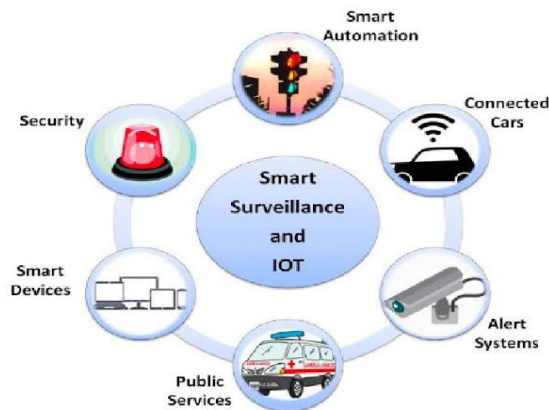
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Areas of Research

- ✚ **Internet of Things** - Smart Surveillance Systems
- ✚ **Object Identification and Classification**- Using Machine Learning Algorithms





Mr. S. Sevagan

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Assistant Professor

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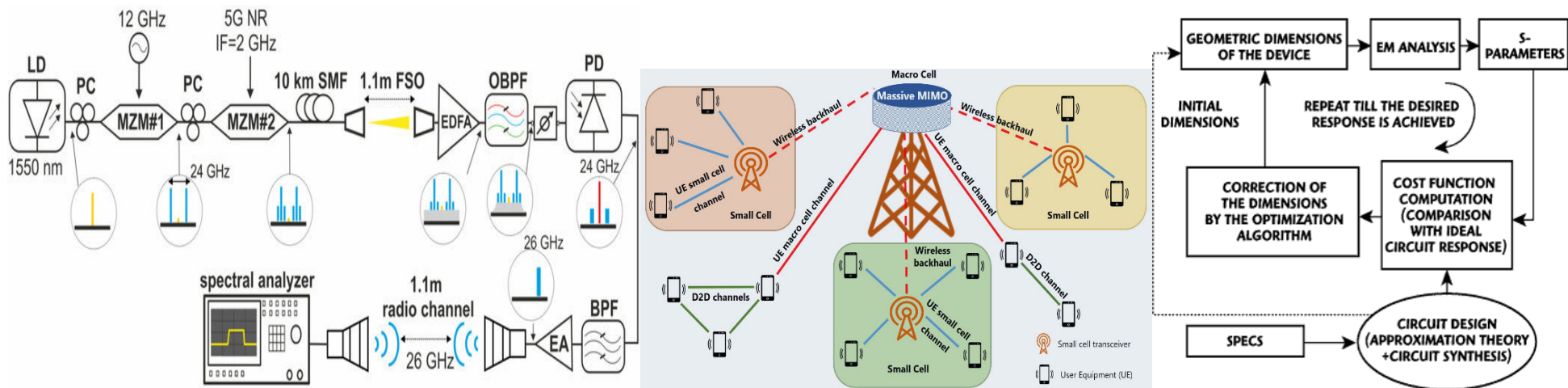
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Areas of Research

- **Optical Communication** - MMW Signal Generation, Analysis on Fiber Non-Linearity
- **Antennas** - Antennas for 5G and Beyond
- **RF & Microwave** - RF & Microwave Amplifiers, Mixer & Filters



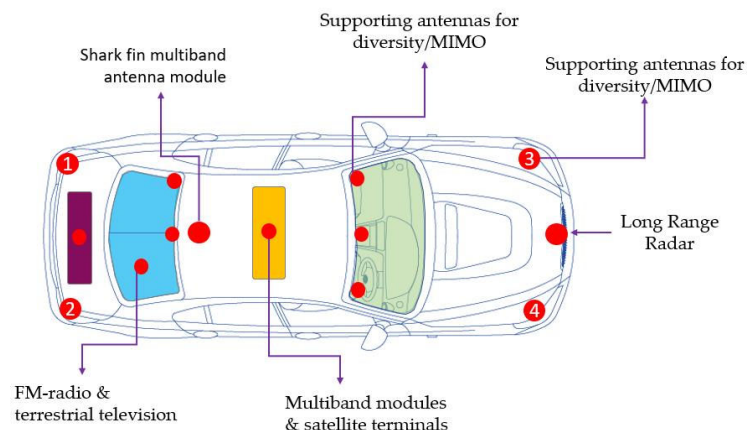
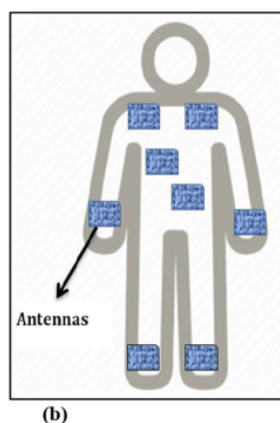
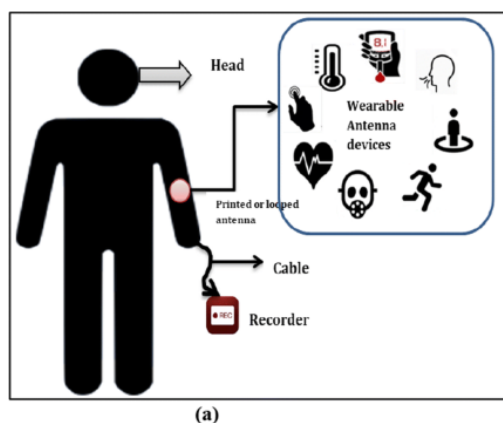


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Areas of Research

- ✚ **Wearable Antennas for Medical IOT** - Wearable antenna design for ISM band to monitoring the health conditions
- ✚ **Millimeter wave antennas** Improving the performance for Vehicle to Vehicle Communications





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Area of interest

- **Optical Communication** - RoF Design for telecommunication

