Publications:

International Journals:


National Journals:


International Conferences:


National Conferences:


Academic / Professional activities:

- Reviewer, IEIB (Springer)
- Reviewer, (Elsevier)
- IEEE Student Branch Counsellor
Sponsored Projects / Industrial Consultancy

Name of the Project: Development of Image Processing Tools Specific to Tokamak Plasma Images
Name of the Company: BRNS
Duration: 2 years
Amount: INR 22.64 Lakhs

Research Students:

<table>
<thead>
<tr>
<th>Name of student</th>
<th>Place of work and Name of Organisation</th>
<th>Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Pamela</td>
<td>Karunya University, Coimbatore</td>
<td>June 2009</td>
</tr>
<tr>
<td>Meenakshisundaram.N</td>
<td>Sathyabama University, Chennai</td>
<td>June 2015</td>
</tr>
<tr>
<td>A. Ancy Mergin</td>
<td>Prince Shri Venkateshwara Padmavathy Engineering College, Ponmar</td>
<td>July 2015</td>
</tr>
<tr>
<td>R. Sherline Jesie</td>
<td>Sathyabama University, Chennai</td>
<td>July 2016</td>
</tr>
</tbody>
</table>

Title: Performance analysis of control strategies in Networked Control System

The air temperature process is connected via Ethernet to a remote control PC and the air temperature is regulated at a distance. Various control algorithms have been deployed and their performance have been analyzed. Lines about the research work conducted or being planned.

Year of completion:
Submitted the thesis on 11th Nov. 2016

Title: Analysis of Human Metaphase Chromosome using Image Processing

Identifying abnormalities in metaphase chromosomes to find out solutions for genetic disorders.

Year of completion:
2020

Title: Efficient Multisensory data fusion in body sensor networks during critical care.

Working on currently existing algorithms. To come up with a new algorithm that satisfies the problem criteria.

Year of completion:
2020
<table>
<thead>
<tr>
<th>S. AGNES SHIFANI</th>
<th>Design and Analysis of Farm-Connect: A Precision Agricultural Application with IoT using WSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>To design a low cost and highly advantageous “Farm-Connect” device that uses the IoT technology for increasing the productivity of the crop cultivation (PA), and serves as a friend to the farmer.</td>
<td></td>
</tr>
<tr>
<td><strong>Year of completion:</strong></td>
<td>2021</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Image Processing</td>
</tr>
<tr>
<td><strong>University:</strong></td>
<td>Jeppiaar Mamallan College of Engineering, chennai</td>
</tr>
<tr>
<td><strong>Month:</strong></td>
<td>July 2016</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ganesh Rajaram Pathak</th>
<th>Precise Measure of Strain using Digital Image Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>To develop an algorithm to provide high resolution with minimal systematic errors and To improve the precision of strain measurement quickly by reducing error</td>
<td></td>
</tr>
<tr>
<td><strong>Year of completion:</strong></td>
<td>2021</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Wireless Sensor Network</td>
</tr>
<tr>
<td><strong>University:</strong></td>
<td>Sinhgad College of Engineering, Pune</td>
</tr>
<tr>
<td><strong>Month:</strong></td>
<td>January 2013</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>L. Jawahar</th>
<th>Secure Frame Work for Wireless Sensor Network</th>
</tr>
</thead>
<tbody>
<tr>
<td>The proposed secure framework protocol is comparing with various existing protocols for attaining security in wireless Sensor Networks. Furthermore, the proposed mechanism in order to tackle with the Black Hole attack.</td>
<td></td>
</tr>
<tr>
<td><strong>Year of completion:</strong></td>
<td>2019</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Image Processing</td>
</tr>
<tr>
<td><strong>University:</strong></td>
<td>Mount Zion college of Engg and Tech, Pudukkottai</td>
</tr>
<tr>
<td><strong>Month:</strong></td>
<td>Jan 2014</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Title:</strong></th>
<th>Hand gesture controlled wireless robot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieve real time hand gesture using image processing based neural network algorithm and to control service robot in real time.</td>
<td></td>
</tr>
</tbody>
</table>