





IEEE SENSORS COUNCIL HYDERABAD CHAPTER

PRESENTS



Date 22 - 23 MARCH, 2024

Venue

G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE (FOR WOMEN)
HYDERABAD









Seasonal School

Smart Agriculture System using IOT Technology On 22nd & 23rd March 2024 @ GNITS, Hyderabad

Program Schedule - Day - 1

Session Timings and Speakers Details						
9.00 AM to 09.45 AM	Registrations					
09.45 AM to 10.30 AM	Inauguration					
10.30 AM to 11.30 AM	Session-1	Dr. Sanket Goel BITS Pilani, Hyderabad Campus	Title: Miniaturized Wearable, Implantable and Self-powered Electro-fluidic devices for Multi- domain Sensing Applications			
11.30 AM to 11.45 AM	Tea Break					
11.45 AM to 12.45 PM	Session-2	Mr. N. Venkatesh Senior Director, Silicon Labs, Hyderabad	Title: Field Area Networks for Smart Agriculture with Wi-SUN			
12.45 PM to 01.45 PM	Lunch Break					
01.45 PM to 03.15 PM	Session-3	Mr. Phani Kumar C Staff Engineer, Silicon Labs, Hyderabad Mr. Ravindra Patil Lead Engineer, Silicon Labs, Hyderabad	Title: Building IoT solutions with Edge Intelligence			
03.15 PM To 04.00 PM	Networking with High Tea					









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Program Schedule - Day - 2

Session Timings and Speakers Details						
10.00 AM To 10.30 AM	Showcase of Sensors Based Projects					
10.30 AM to 11.30 AM	Session-4	Mr. Hitendra Singh Founder & CEO, Segritech	Title: Challenges in Agritech for Hardware & AI			
11.30 AM to 11.45 AM	Tea Break					
11.45 AM to 12.30 PM	Session-5	Dr. Chithra Lekha P Senior Research Scientist Virginia Tech India IIT Madras Research Park	Title: Sensors for Livestock Health Monitoring and Informed Decision Making: Current Trends and Future Directions			
12.45 PM to 01.30 PM	Lunch Break					
01.30 PM to 02.30 PM	Session-6	Dr. P. N. Suganthan Professor Qatar University	Title: Differential Evolution			
02.30 PM To 03.15 PM	Valedictory					
03.15 PM To 04.00 PM	Networking with High Tea					



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IEEE SB GNITS	IEEE Ecoshe SUMMIT Report

Date: 30-03-2024

Report on

IEEE Seasonal school on Smart Agriculture using IoT Technology

Following were the speakers details with topics:

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Dr. Sanket Goel BITS Pilani, Hyderabad Campus	Title: Miniaturized Wearable, Implantable and Self-powered Electro-fluidic devices for Multi-domain Sensing Applications
Mr. N. Venkatesh Senior Director, Silicon Labs, Hyderabad	Title: Field Area Networks for Smart Agriculture with Wi-SUN
Mr. Phani Kumar C Staff Engineer, Silicon Labs, Hyderabad Mr. Ravindra Patil Lead Engineer, Silicon Labs, Hyderabad	Title: Building IoT solutions with Edge Intelligence
Mr. Hitendra Singh Founder & CEO, Segritech	Title: Challenges in Agritech for Hardware & AI
Dr. Chithra Lekha P Senior Research Scientist Virginia Tech India IIT Madras Research Park	Title: Sensors for Livestock Health Monitoring and Informed Decision Making: Current Trends and Future Directions
Dr. P. N. Suganthan Professor Oatar University	Title: Differential Evolution

- ♦ Miniaturized Wearable, Implantable and Self-powered Electro-fluidic devices for Multi-domain Sensing Applications: These breakthrough devices are revolutionizing how we gather and interpret data across various domains, from healthcare to industrial settings. Their compact size, coupled with self-powering capabilities, enables seamless integration into everyday life, promising unparalleled accuracy and efficiency in sensing applications.
- ♦ Field Area Networks for Smart Agriculture with Wi-SUN: Empowering agriculture with connectivity solutions designed for efficiency and sustainability. Wi-SUN technology is reshaping the landscape of farming, ensuring smarter decision-making and optimized resource management. Field Area Networks provide robust connectivity solutions tailored for the unique challenges of agricultural environments, facilitating real-time data collection and analysis for informed decision-making.
- ♦ Building IoT Solutions with Edge Intelligence: Unlocking the true potential of the Internet of Things (IoT) with the power of Edge Intelligence. By processing data closer to its source, Edge Intelligence minimizes latency, enhances privacy, and reduces bandwidth usage. This enables real-time insights and enhanced operational capabilities, making IoT solutions more responsive and efficient across various industries.

- ♦ Challenges in Agritech for Hardware & Al: Navigating the intersection of Agritech, Hardware, and Al presents a myriad of challenges demanding innovative solutions. From optimizing hardware design to integrating Al algorithms seamlessly, addressing these challenges is crucial for unlocking the full potential of technology in agriculture.
- ♦ Sensors for Livestock Health Monitoring and Informed Decision Making: Current Trends and Future Directions: Evolving sensor technology is transforming livestock health monitoring, providing real-time data for informed decision-making. However, challenges persist in refining sensor accuracy and scalability for broader adoption in agricultural settings.
- ♦ Differential Evolution: This powerful optimization technique holds promise for solving complex agricultural optimization problems, such as crop yield optimization and resource allocation. Yet, challenges remain in fine-tuning algorithm parameters and adapting them effectively to diverse agricultural scenarios.

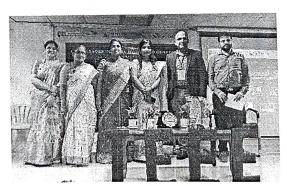
No. of Students participated:

IEEE & Non IEEE:

110

Brochure, Speakers list is enclosed:

Event photos:







Dr C Padmaja IEEE Sensor council advisor Dr T. Hima Bindu IEEE SB GNITS Counsellor

Dr Renuka Devi 6 M 2 Presente Coordinator & W.E. faculty advisor

Dr N. Malla Reddy IEEE Mentor

Dr K.Ramesh Reddy Principal



