

SRU

SR UNIVERSITY

SCHOOL OF **AGRICULTURE**

(Revolutionize in the Farm Education)

NEWS LETTER -VOL 2

JANUARY - JUNE 2024



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**"Cultivate Your Potential,
Harvest Your Dreams"**

Dr. G. Bhupal Raj

Dean

School of Agriculture

Dean's Message:

Dear Students, Faculty, and Staff,

Our Mantra "Cultivate Your Potential, Harvest Your Dreams" encapsulates our dedication to fostering an environment where every student can thrive and achieve their fullest potential. Our school is where knowledge meets innovation, and dedication is met with opportunity. We are committed to providing the resources, guidance, and support needed to turn your dreams into reality. Just as a farmer nurtures each seed, we are here to nurture your academic and personal growth.

This semester, we are launching initiatives to enhance learning, promote cutting-edge research, and strengthen industry ties. These efforts will equip you with the skills and knowledge to excel in a rapidly evolving field. From advanced research opportunities to hands-on learning experiences, we are here to support you in every step of your journey. Thank you for being an essential part of our community. Let's work together to cultivate your potential and harvest your dreams.



Dr. Tithli Sadhu

Assistant professor

Assoc. Dean's Message:

As we continue our journey at the School of Agriculture, I am excited to embrace our theme, i.e., "Cultivate Your Potential, Harvest Your Dreams." This message serves as a reminder of the incredible opportunities that lie ahead and the commitment, we have to nurturing the growth and success of every student.

Agriculture is a field that requires passion, dedication, and a willingness to innovate. Our school is dedicated to providing an environment where you can explore your interests, develop your skills, and achieve your aspirations. By cultivating your potential, you are setting the stage for a future where your contributions will make a lasting impact on world. Remember, the journey of cultivation requires patience, effort, and resilience. Embrace challenges, celebrate successes, and never stop striving for excellence. Together, we will plant the seeds of innovation and reap the harvest of success.

Thank you for being a vital part of our community.



Dr. M. Mohana Keerthi

Assistant Professor (Agronomy)
School of Agriculture

Head's Message:

I wanted to take a moment to reflect on our recent remarkable achievements and share some exciting developments within our School of Agriculture. Over the past six months, we made significant strides. We successfully introduced 12 different Experiential Learning Modules and allotted 18 RAWEP Villages for student engagement. More than 70 students were attached to various agro-industries, the final year students conducted over 80+ field demonstrations for the farming community. Additionally, over 20+ students secured internships with central government and private organizations/institutions, earning monthly stipends. We also achieved placements for more than 90+ students in private agriculture based companies and NGOs. Three of our final year students cleared the Common Management Admission Test (CMAT) conducted by the Department of Higher Education, India. We organized essay writing, spot painting, and photography competitions for students. Our students published 2 patents in the field of modern agriculture, and over 50 student-led field activities were featured in daily newspapers. We also arranged 15+ exposure visits to fields, industries, and institutions for students.

Our faculty members made notable contributions as well. 24 faculty members received awards, such as Best Performer and Lifetime Achievement, from various national and international conferences. We organized more than 30+ expert talks, bringing in business leaders, young professionals, scientists, and industry experts to engage with Students, Scholars, and Faculty. Our faculty and Ph.D. scholars published over 30+ Scopus-indexed papers. Faculty members attended more than 50+ national and international workshops, training sessions, and conferences. In addition, we hosted 10+ trainings, workshops, webinars, and conferences. We celebrated important occasions such as International Women's Day, World Soil Day, World Pulses Day, World Forest Day, World Water Day, and World Environment Day. We also conducted a Parent-Teacher Meeting and Kishan Ghosti and inaugurated the Meteorological Observatory (Type B).

I am incredibly proud of the hard work and dedication everyone displayed. Together, we fostered a culture of innovation and collaboration, and I look forward to continuing this progress as we move forward. Looking ahead, we have some exciting opportunities on the horizon, including [upcoming events, projects, or initiatives]. I encourage everyone to stay engaged and share your ideas as we continue to grow and adapt. Thank you for your ongoing commitment and enthusiasm. Let's make the upcoming Academic Year even more productive and inspiring!

Conducted International Conference on “Holistic Innovations & Technological Advances for Sustainable Agriculture” (04 March – 06 March 2024)



HANS INDIA Experts dwell on sustainable progress

HANS NEWS SERVICE
WARANGAL

THE three-day sixth international conference on 'Holistic Innovations and Technological Advances for Sustainable Agriculture' (HITASA-2024) organised by the School of Agriculture, SR University (SRU) in association with Sri Konda Lakshman Telangana State Horticultural University and Just Agriculture Education Centre got underway at NRI Alumni Auditorium, KMC, Warangal, on Monday.

Sri Konda Lakshman Telangana State Horticultural



University Vice Chancellor Dr. B. Neeraja Prabhakar, who chaired the session, cited the goals of sustainability and the importance

of modern conservation technologies.

The chief guest Dr. Sami Reddy, Director, ICAR-NI-ASM, Baramati, quoted that the panchabhoota, the five elements of nature are significant in attaining sustainability and cited about the NICRA project.

Eminent professionals, deans, directors, and young scientists from various agricultural institutions world across participated in the conference physically or virtually. All the professors and faculty of SOA, actively participated in the smooth organizing of the conference.

LIFETIME ACHIEVEMENT AWARD by Just Agriculture Edu. Group & ISAHRD, Chandigarh, Punjab for the outstanding contribution in the field of Soil Science



Conducted “Nature Nexus” on the occasion of World Environment Day



SRU School of Agriculture

NATURE NEXUS CELEBRATION

DATE 22 March, 2024
TIME 03.30 PM
VENUE Room no:4104 School of Agriculture

We Welcome as a Chief guest

Ms. B. Lavanya IFS
District Forest Officer, Hanamkonda

Organized by: **Department of Agronomy**

For more details:
Mr. Ch. Suchith Kumar
Asst. Professor of Agronomy
+91- 84370-83838

www.sru.edu.in 833 100 3030 / 4040



Farewell party to outgoing final year B.Sc.(Hons) Agriculture students was arranged by juniors in the grounds of the School of Agriculture on 27th April,2024



15 days online Faculty Development Program (FDP) on “Statistical Analysis and Machine Learning for Agricultural Sciences (SAMLAS-2024) 29 April to 13 May 2024”

A 15-Day Online Faculty Development Program (FDP) on “Statistical Analysis and Machine Learning for Agricultural Sciences” (SAMLAS-2024)



April 29, 2024-May 13, 2024



6.00 PM-9.00 PM (IST)

Total Hours: 45

Organized by



School of Agriculture (SoA), SR University,
Warangal, Telangana-506371



A 15-Day Online Faculty Development Program (FDP)
on
“Statistical Analysis and Machine Learning for
Agricultural Sciences”
(SAMLAS-2024)

Resource Person:



Prof. Srinivas Jangili
Assistant Professor
Dept. of Mathematics,
NIT Warangal
jsrinivas@nitw.ac.in

DAY 2: APRIL 30, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Moments, Skewness and Kurtosis
- Elementary Probability
- Binomial, Poisson Distributions, Normal Distribution

Click the link to join:
<https://meet.google.com/kwc-sfsm-cwv>

Coordinator:
Dr. Tithi Sadhu
Asst. Professor, SoA, SR University

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A 15-Day Online Faculty Development Program (FDP)
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(SAMLAS-2024)

Resource Person:



Prof. D. Bhargavi
Associate Professor
Dept. of Mathematics,
NIT Warangal
bhargavi@nitw.ac.in

DAY 3: MAY 1, 2024

TIME: 7 PM - 10 PM (IST)

TOPICS TO BE DISCUSSED

- Statistical Inference

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<https://meet.google.com/kwc-sfsm-cwv>

Coordinator:
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A 15-Day Online Faculty Development Program (FDP)
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(SAMLAS-2024)

Resource Person:



Prof. Debashis Dutta
Professor
Dept. of Mathematics,
NIT Warangal
ddutta@nitw.ac.in

DAY 1: APRIL 29, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Collection, Classification and Tabulation of Data
- Frequency Distribution, Measures of Location
- Measures of Dispersion

Click the link to join:
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Coordinator:
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Resource Person:



Prof. Srinivas Jangili
Assistant Professor
Dept. of Mathematics,
NIT Warangal
jsrinivas@nitw.ac.in

DAY 5: MAY 3, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Correlation
- Regression

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Asst. Professor, SoA, SR University

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Resource Person:



Prof. Debashis Dutta
Professor
Dept. of Mathematics,
NIT Warangal
ddutta@nitw.ac.in

DAY 6: MAY 4, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- ANOVA
- Multiple Regression & Correlation

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Asst. Professor, SoA, SR University

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Resource Person:



DAY 7: MAY 5, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Data Analysis with R – Basic Syntax

Prof. Ramana Murthy J V
Professor (HAG)
Dept. of Mathematics,
NIT Warangal
jvr@nitw.ac.in

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(SAMLAS-2024)

Resource Person:



DAY 8: MAY 6, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Data Analysis with R – Hands-on & Applications

Prof. Ramana Murthy J V
Professor (HAG)
Dept. of Mathematics,
NIT Warangal
jvr@nitw.ac.in

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Asst. Professor, SoA, SR University

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Resource Person:



DAY 9: MAY 7, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Unveiling Predictive Potential: Logistic Regression, Decision Trees, and Random Forests

Prof. Khokan Mondal
Assistant Professor
Dept. of Computer Science and Business
System
Techno India University, West Bengal
khokan.m@technoindiaeducation.com

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Resource Person:



DAY 10: MAY 8, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Support Vector Machines (SVM)
- K-Nearest Neighbours (KNN), Principal Component Analysis

Prof. Balaprakasa Rao Kilili
Assistant Professor
Dept. of Computer Science
and Engineering
NIT Warangal
bsprao@nitw.ac.in

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(SAMLAS-2024)

Resource Person:



DAY 11: MAY 9, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Artificial Neural Network (ANN)

Prof. Prasenjit Dey
Assistant Professor
Dept. of Computer Science
NIT Borkela
deyp@nitw.ac.in

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Asst. Professor, SoA, SR University

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(SAMLAS-2024)

Resource Person:



DAY 12: MAY 10, 2024

TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Clustering Algorithms
- K-means clustering, Fuzzy C-means clustering, etc.

Prof. Sujit Das
Assistant Professor
Dept. of Computer Science
and Engineering
NIT Warangal
sujit.das@nitw.ac.in

Click the link to join:
<https://meet.google.com/kwc-sfsm-cwv>

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Asst. Professor, SoA, SR University

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(SAMLAS-2024)

Resource Person:



DAY 13: MAY 11, 2024
TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Advanced Statistical & Machine Learning Techniques for Time Series Analysis & Forecasting in Agriculture

Subrat Kumar Mahapatra
Assistant Professor
Department of Agricultural Statistics
Faculty of Agricultural Sciences,
Institutes of Agricultural Sciences,
Siksha 'O' Anusandhan, Bhubaneswar, Odisha
subratmahapatra@sau.ac.in

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(SAMLAS-2024)

Resource Person:



DAY 14: MAY 12, 2024
TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Climate Change Impact on Water and Agriculture Sectors

Prof. Jew Das
Assistant Professor
Dept. of Civil Engineering
NIT Warangal
jdas@nitw.ac.in

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<https://meet.google.com/kwc-afsm-cwv>

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Asst. Professor, SoA, SR University

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(SAMLAS-2024)

Resource Person:



DAY 15: MAY 13, 2024
TIME: 6 PM - 9 PM (IST)

TOPICS TO BE DISCUSSED

- Genomic data analysis using DL

Prof. Asim Bikas Das
Associate Professor
Dept. of Biotechnology
NIT Warangal
asimbikas@nitw.ac.in

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<https://meet.google.com/kwc-afsm-cwv>

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Coordinator:
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Asst. Professor, SoA, SR University

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Expert Talk on "Pesticides in Soil, Water – impact on environment and health" Date: 21 May 2024

Expert Talk
on
**Pesticides in soil, water - impact on
environment and health**

Resource Person:



Prof. Shashi Vemuri
Formerly Senior Professor
&
University Head of Entomology, PJTSAU
Now Senior Advisor & Chief Scientist at
Food Hygiene Bureau of Jamaica

DATE: MAY 21, 2024
TIME: 3 PM - 5 PM (IST)
MODE: ONLINE

Registration Free!!!
REGISTER NOW
<https://forms.gle/vzd22ib6KhQnR6>

Click the link to join:
<https://forms.gle/vzd22ib6KhQnR6>

OR Scan it to join:



Organised by:
Dr. G. Bhupal Raj
Dean, SoA, SR University

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Expert Talk on
“Groundwater Resources and Agriculture Production:
Arsenic (As) Contamination, A Global Human Health Crisis”
Date: 29 May 2024

Expert Talk
on
Groundwater Resources and Agriculture Production: Arsenic (As) Contamination, A Global Human Health Crisis

Resource Person:



K.J. Reddy,
Professor Emeritus
Ecosystem Science & Management,
College of Agriculture, Life Sciences,
& Natural Resources
University of Wyoming, Laramie,
Wyoming, USA

DATE: MAY 29, 2024
TIME: 4 PM - 6 PM (IST)
MODE: ONLINE

Registration Free!!!
REGISTER NOW >
<https://forms.gle/z8HLPwRp4wRDNLQ7A>

Click the link to join:
<https://sru-edu-in.zoom.us/j/98830676262>

Organised by:
Dr. C. Bhupal Raj
Dean, SoA, SR University

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The SRU-School of Agriculture organized a "Kisan Gosthi" program by the Agricultural Instructional Farm

Date: 30th June 2024

Time: 10:00 AM to 4:00 PM

Venue: SRiX -SR Innovation Exchange Auditorium

KISAN GOSTHI

**30TH JUNE 2024
(10AM TO 4 PM)
SRiX Auditorium**

Convenor:
Dr. G Bhupal Raj
Dean, School Of Agriculture

Coordinators:
Dr. Bijendra Kumar Assoc. Professor
Dr. B. Somraj Asst. Professor
Mr. G. Sriker Reddy Asst. Professor



For more Details contact
+91 9849366130

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**SR University signed MoU with
Prakasham Krishi Vignan Kendra (ICAR funded KVK) for
School of Agriculture.**



**Exciting Learning Experience at College of Agriculture, PJTSAU, Warangal!
Students from SR University's School of Agriculture enjoyed an enriching visit to
the College of Agriculture, PJTSAU, Warangal**



**Proud to celebrate World Environment Day at SR University's School of
Agriculture! Our Esteemed Dean, Associate Dean, Head and dedicated
students came together to plant saplings and nurture our planet.**





Congratulations students for completing Industrial attachment in Mulukanoor Women's Cooperative Dairy



Memorandum of Understanding between the School of Agriculture - SRU & ICAR- Indian Institute of Millets (ICAR-IIMR), Hyderabad!



Patent Published:

Inventor:

Janga Rohith Reddy

B.Sc(Hons.) Agriculture- 4th year Student

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202441019982 A
(19) INDIA		
(22) Date of filing of Application :18/03/2024		(43) Publication Date : 29/03/2024
(54) Title of the invention : MULTI-ROW PADDY WEEDER		
(51) International classification	:F16G0013160000, A01B0039180000, H02G0011000000, A01B0039190000, F16H0003660000	(71)Name of Applicant : IJSR University Address of Applicant :SR University, Ananthasagar, Warangal, Telangana, India (IN) Email ID: patent@srj.edu.in Mb: 08702818333 Warangal -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : IJanga Rohith Reddy Address of Applicant :Reddigudem, Tadvali, Mulugu, Telangana, India - 506347 Mulugu -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
(57) Abstract : MULTI-ROW PADDY WEEDER ABSTRACT A multi-row paddy weeder (100) is disclosed. The weeder (100) comprises a frame (102). The frame (102) comprises a wheel shaft (104) enabling wheel rotation upon external force application, a first disk (108) integrated with the wheel shaft (104) for synchronous rotation with the wheels (106a-106b), and a second disk (110a-110c) mounted on a cutter shaft (112), linked to the first disk (108) via a chain (114) to receive rotational energy. The cutter shaft (112) rotates upon receiving energy from the chain (114). Blade frames (116a-116f) are affixed to the cutter shaft (112), each equipped with blades (118a-118n) featuring teeth-like structures for soil excavation and weed uprooting. The weeder (100) enables effective weed removal between rows of paddy plants without relying on engine power, offering a sustainable, cost-effective, and eco-friendly solution to enhance agricultural productivity while minimizing environmental impact. Claims: 10, Figures: 3 Figure 1A is selected. No. of Pages : 20 No. of Claims : 10		

Inventor:

D. Rajkamal

B.Sc(Hons.) Agriculture- 4th year Student

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202441016144 A
(19) INDIA		
(22) Date of filing of Application :07/03/2024		(43) Publication Date : 22/03/2024
(54) Title of the invention : AGRICULTURAL MACHINE		
(51) International classification	: A01B63/02, A01B3/00, A01B63/10, A01B63/12, A01B69/00, A01C15/00, A01C21/00, B62D6/00	(71)Name of Applicant : IJSR University Address of Applicant :SR University, Ananthasagar, Warangal, Telangana, India (IN) Email ID: patent@srj.edu.in Mb: 08702818333 Warangal -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : IJD. Rajkamal Address of Applicant :13-3-123/1, ashok nagar colony, Bhadrachalam, Khammam District Telangana Bhadrachalam -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
(57) Abstract : AGRICULTURAL MACHINE ABSTRACT An agricultural machine (100) is disclosed. The machine (100) comprising sensors (108) arranged on the machine (100) for detecting conditions of an agricultural land. Idler wheels (116a-116d) and field support wheels (118a-118n) paired with a chain drive (120) to enable a tracked mobility of the machine (100). The machine (100) further comprises ploughs (124a-124d) connected to a plough frame (122) using a shaft (126) and adapted to perform a ploughing action in the agricultural land upon the swivel motion of the plough frame (122). A control unit (128) configured to: receive, analyze, and classify the detected conditions from the sensors (108) into a first set of attributes and a second set of attributes; and transmit a first manipulation signal and a second manipulation signal to enable an adjustment of the ploughs (124a-124d) and enable an adjustment of the idler wheels (116a-116d), and the field support wheels (118a-118n) respectively. Claims: 10, Figures: 6 Figure 1A is selected. No. of Pages : 28 No. of Claims : 10		

Patent Granted :

Inventor:

Dr. Gireesha D

Assistant Professor

**Department of Plant Pathology, School of Agriculture
SR University**



List of Publication:

Faculty Name	Publication Details
Dr. G. Bhupal Raj	Book Chapter Digital Soil Mapping: concepts, methods, and applications-Remote sensing and GIS perspectives In the Book Remote Sensing of Soils: Mapping, Monitoring, and Measurement, 2024, pp. 195–212 DOI: https://doi.org/10.1016/B978-0-443-18773-5.00018-1
	Conference Paper Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024, 2024 Predictive Modeling of Crop Yield in Precision Agriculture Using Machine Learning Techniques DOI: https://doi.org/10.1109/ACCAI61061.2024.10602450
	Conference Paper Proceedings - 3rd International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2024, 2024 Remote Monitoring and Control of Agricultural Systems Using IoT and Machine Learning DOI: https://doi.org/10.1109/ACCAI61061.2024.10602186
	Conference Paper 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, IDCIoT 2024, 2024 An Innovative Method for Paddy Yield Prediction Based on DCNN-ELM Approach DOI: https://doi.org/10.1109/IDCIoT59759.2024.10467772
	Conference Paper IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023 Empowering Sustainable Agriculture through IoT: Innovations for Precision Farming and Crop Monitoring DOI: https://doi.org/10.1109/ICSSS58085.2023.10407883
Dr. M. Mohana Keerthi	Conference Paper Proceedings of 2024 International Conference on Science, Technology, Engineering and Management, ICSTEM 2024 Integrating IoT and Machine Learning for Smart Irrigation Systems in Agriculture DOI: https://doi.org/10.1109/ICSTEM61137.2024.10561002
Dr. B. Srinu	Research Article African Journal of Biological Sciences IBiological Control OfCrop Pests: Exploiting Natural Enemies And Molecular Tools DOI: https://doi.org/10.48047/AFJBS.6.Si4.2024.3579-3590
	Research Article African Journal of Biological Sciences Different Growth Stages Of Tomato (Solanum Lycopersicuml.) Heem Sohna Variety As Impactedby Npk Fertigation Levels, Irrigation Levels And Mulching During Rabi Grown Under Poly House Condition DOI: https://doi.org/10.48047/AFJBS.6.13.2024.766-772

Dr. T. Soujanya	Conference paper Fire Hawk Optimization based Multi-objective Dynamic Load Balancing in Cloud Computing International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 DOI: https://doi.org/10.1109/ICDCOT61034.2024.10516057
	Conference Paper Automatic License Plate Recognition Using K-Nearest Neighbour Approach International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 DOI: https://doi.org/10.1109/ICDCOT61034.2024.10515630
	Conference Paper Chi-Squared Based Text Convolutional Neural Network for Fake Consumer Review Classification International Conference on Distributed Computing and Optimization Techniques, ICDCOT 2024 DOI: https://doi.org/10.1109/ICDCOT61034.2024.10516186
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Chunchu Suchithkumar; Sreekanth Reddy;

Prashanthi Divyavani; Sai Divya; Mutha Sravya; Manju Mani; Geetha Manoharan

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Precision nitrogen management in aerobic system for maximising paddy (*Oryza sativa* L.) yields: A review

Murugesan Mohana Keerthi¹, Pooja Srivastav¹, Govindhasamy

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Book Chapter

PRole of Soils for Satisfying Global Demands for Food, Water, and Bioenergy

Bhabani Prasad Mondal, G. Bhupal Raj, Mahima Dixit, Tithli Sadhu, Vaibhav Pandit,

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In the book**Environmental Nexus for Resource Management**

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