



# PRAGATI ENGINEERING COLLEGE (Autonomous)

# 1-378, ADB Road, Surampalem, E.G.District, A.P. - 533 437  
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A' Grade)  
(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)  
Ph : 08852 - 252233, 252234, 252235, Fax : 252232, Website : www.pragati.ac.in  
(Sponsored by Gayatri Educational Society)

D.No. 2-24-4/2, Ground Floor, Janmabhoomi Park Road, Srinagar, Kakinada - 3, Ph : 0884 - 2355900, Fax : 2363900

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Research and Development A.Y 2023-2024

#### Faculty Publications

##### Journals:

S.No	Title Of Journal	Name of The Author(s)	Name Of The Journal	Year Of Publication	ISSN Number
1	Enhanced non-alcoholic fatty liver detection computed tomography scan image analysis and noise reduction with morphological dilation	Dr.V.Radika	Arab Journal of Gastroenterology	2023	1687-1979
2	Hybrid chaotic map with L-shaped fractal Tromino for image encryption and decryption	Dr.S. R. V. Juvvanapudi	International Journal of Electrical and Computer Engineering	2024	2088-8708
3	Women's Empowerment Through Self-Help Groups: A Study Focused On Andhra Pradesh East Godavari District	Mrs.L.Gaviramma Dr.S.Koteswari	Dogo Rang Sang Research Journal	2023	2347-7180
4	IoT based smart accident detection for real time applications	Mr.Ch.Satish	The International Journal Of Analytical and experimental modal analysis	2023	0866-9367
5	Design and implementation of smart agriculture with efficient utilization of solar energy	Dr.Subodh panda	Science and technology and development	2023	0950-0707

##### Book Chapters

S.No	Title Of Book chapter	Name of The Author(s)	Name of the Publisher	Year Of Publication	ISBN Number
1	Nanotechnology Applications In Various Fields	Dr. V. Radhilka	IIP Series, Volume 3, Book 9, Part 5, Chapter 3	2024	78-93-6252-924-4



# PRAGATI ENGINEERING COLLEGE (Autonomous)

# 1-378, ADB Road, Surampalem, E.G.District, A.P. - 533 437

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A' Grade)

(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)

Ph : 08852 - 252233, 252234, 252235, Fax : 252232, Website : www.pragati.ac.in

(Sponsored by Gayatri Educational Society)

D.No. 2-24-4/2, Ground Floor, Janmabhoomi Park Road, Srinagar, Kakinada - 3, Ph : 0884 - 2355900, Fax : 2363900

2.	Using Symmetrical Threshold Contour Algorithm for Skin Cancer Image Segmentation	1.B. Vasantha Lakshmi 2. V. Sailaja 3.G. S. Siva Kumar 4.G. Viranya	Research Updates in Mathematics and Computer Science BP International	2024	978-81-971889-5-4 (Print) ISBN 978-81-971889-7-8 (eBook) DOI: 10.9734/bpi/rumcs/v2
----	--	--	--	------	---

## Patents:

S.No	Title Of Patent	Name of The Author(s)	Date Of Filing	Application Number	Field Of Invention	Date Of Publication
1	Intelligent Charging Infrastructure For Electric Vehicles With Deep Learning For Fast And Safe Charging	Dr.V.Sailaja Mr.G.S.Siva Kumar	04/02/2024	202441007537	Electrical	01/03/2024
2	Intelligent Iot-Based Maternal Health Monitoring Device With Cloud Integration	Dr.Vemuri Sailaja	06/09/2023	202341060034	Bio-Medical Engineering	06/10/2023
3	Next-generation AI Chatbot with Advanced Language Understanding and Generation Capabilities	Dr.V.Sailaja	26/07/2023	202341050566	Computer Science	01/09/2023

## Conferences:

S.No	Title Of Paper	Name of The Author(s)	Name of the conference	Year Of Publication	ISSN Number
1	Design and development of internet of things (IoT) based healthcare 4.0 application	Dr Subodh Panda Ms. Rubia Tasneem	Artificial Intelligence Of Things For Sustainability	20th and 21st January 2024	-



# PRAGATI ENGINEERING COLLEGE (Autonomous)

# 1-378, ADB Road, Surampalem, E.G.District, A.P. - 533 437

(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada & Accredited by NAAC with 'A' Grade)

(Recognised by UGC Under Sections 2 (f) and 12 (b) of UGC act, 1956)

Ph : 08852 - 252233, 252234, 252235, Fax : 252232, Website : www.pragati.ac.in

(Sponsored by Gayatri Educational Society)

D.No. 2-24-4/2, Ground Floor, Janmabhoomi Park Road, Srinagar, Kakinada - 3, Ph : 0884 - 2355900, Fax : 2363900

2	A Modified Inception-v3 Architecture for Monkeypox Dermatological Images	Dr.V.Sailaja	Advance in Technologies and Applications for Sustainability	05 <sup>th</sup> -06 <sup>th</sup> October 2023	-
3	Detecting Breast cancer using machine learning algorithms:The efficient and accurate way	Dr.V.Sailaja Mrs.B.Vasantha Lakshmi	International conference on Artificial Intelligence and smart communication	2023	979-8-3503-2230
4	Face Mask Detection in Real time using an Automatic Door Control System	Dr.V.Sailaja	International Joint Conference on Advances in Computational Intelligence, Algorithms for Intelligent Systems	2023	978-981-99-1435-7_50