Mr.A.Rutwik

Assistant Professor

Department of Electronics & communication Engineering

Raghu Enginnering College - 531162, Visakhapatnam, INDIA

Gmail id: rutwik.attada@raghuenggcollege.in
Interests: Signal processing ,image processing ,communications.

Course Taught Previously

 UG.
- Semiconductor diode and its Applications
- Basic electrical and electronic devices
- Digital signal Processing
- Intellectual property rights
- Professional human values and rights

Laboratories Handled
- BEEE Lab
- Very large scale integrated lab
- Electronic Devices and circuits lab
- Digital integrated circuit Applications lab
- Electronic circuit analysis lab
- Semiconductor diodes and its applications lab
- Microwave and optical communication lab
- Analog communication lab

Publications

International Journals

1 K. Madhavi (Assistant Professor), A.Rutwik (Assistant Professor), M. Bhoja Sri, J. Satti Babu, M. Sandeep, J. Vijaya Bhaskar**, IMAGE ENCRYPTION AND DECRYPTION USING CHAOTIC AND DNA ALGORITHM Journal of Nonlinear Analysis and Optimization,**Vol.15,Issue-1,Jan-June-2024

2 D.Monica Satyavathi1 , A.Rutwik2 , N.Atchut Kumar3 , M. Lokesh4 , N.Pavan Kumar5 , P.Karthik6. **AI & IOT ENABLED SMART EXOSKELETON FOR REHABLITATION OF A FINGER FOR PARALYSED PEOPLE Journal of Data Acquisition and Processing** Vol. 38 (2) 2023

3 G.Ramesh Babu ,D.Monica Satyavathi ,M.Harish, A.Rutwik "**COUNTING CARS USING MACHINE LEARNING Mukt Shabd Journal** ,Volume XI, Issue II, FEBRUARY/2022

4 Chinthagada Naveen Kumar , D. Monica Satyavathi , Attada Rutwik, "Design **and Implementation of 4-Bit Comparator by using Win cell partition with efficient constraints in IJAEMA** in May 2020.ISSN.NO: 0886-9367

5 A.Rutwik, B.T.Krishna "**Speech Enhancement using Fractional Order Spectral Subtraction Method**" is published in BRNS sponsoredXII control instrumentation system conference (CISCON 2015) held at Manipal Institute of Technology, Manipal

PATENT PUBLICATION:

- Published patent on **REVERSIBLE DATA HIDING IMAGE ENHANCEMENT SYSTEM WITH 2D HISTOGRAM**, Application No.202041044846A , (19) INDIA, Date of filing of Application :15/10/2020 , Publication Date : 30/10/2020

Conference Proceedings

1. Participated in Two day international conference on **Innovative Machanisms and Standards for Assuring Quality in HEL'**s Organized by Koneru Lakshmaiah education foundation under IAQHEI ON 11TH &12TH MARCH 2022.
2. A.Rutwik, B.T.Krishna "**Speech Enhancement using Fractional Order Spectral Subtraction Method**" is published in BRNS sponsoredXII control instrumentation system conference (CISCON 2015) held at Manipal Institute of Technology, Manipal.

PHDs Supervised

Name of Student	Area of Research	Remarks *
NILL		

Workshops/Conferences/Seminars/Symposiums organised
Conferences/Symposiums

S. No	Name of the Programme	Dates	Sponsored by	Role
NILL				

Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1	Applications of computer vision using deep learning	20/02/2023 to 25/02/2023	Seshadrirao gudlavalleru engineering college
2	Analog And Digital IC Design Using Cadence Dsign Flow	26/10/2022 to 29/10/2022	ENTUPLE Technologies
3	Big Data Emerging Technologies	25/07/2022 to 08/09/2022	COURSERA
4	Accreditation and Outcome Based Education	19/07/2022 to 23/07/2022	NITTR, CHENNAI
5	Wireless Communications for Everybody	04/06/2022 to 24/06/2022	COURSERA

6	Machine Learning In Real Time Embedded And Iot Applications	02/05/2022	to	Electronics & ICT Academy at Raghu Engg College
7	Applications of computer vision using deep learning	20/02/2023 25/02/2023	to	Seshadrirao gudlavalleru engineering college
8	Communication Systems using Machine Learning Algorithms(CSMLA)	14/03/2022 19/03/2022.	to	Annamacharya Institute of Technology and Sciences
9	Internet of Things	24/01/2022 30/01/2022	to	Electronics & ICT Academy at Gitam university
10	Recent advances in IoT and Machine Learning: Application and Hands-On	16/12/2021 18/12/2021	to	Raghu Engg College In Association With Robo-Coupler Pvt.Ltd
11	Opportunity, Challenges and Research Trends in WC (Wireless Communication)	23/04/2021 29/04/2021	to	AICTE-ISTE Guru Nanak Institutions Technical Campus, Hyderabad.
12	VLSI, Image Processing and Design of antennas" (COVID) Organized by UCEV	03/09/2020 04/09/2020	&	JNTUK
13	Global Navigation Satellite System	14/09/2020 25/09/2020	to	Indian Institute of Remote Sensing (IIRS),ISRO,Dehradun
14	Accelerating Research	27/08/2020 29/08/ 2020	to	Lendi institute of engineering and technology
15	High performance intelligent real time embedded systems design and IOT to accelerate Automation system into Autonomous system	03/08/2020 08/08/2020	to	R.M.K Engineering College.
16	Deep Learning for Business PN junction and Metal Semiconductor contact	22/07/2020 13/08/2020	to	COURSERA
17	TOT for TEACHER EDUCATORS	20/07/2020 24/07/2020	to	National Institute Of Technical Teachers Training And Research, Bhopal
18	Satellite Photogrammetry and its Applications	29-06-2020 03-07-2020	to	Indian Institute of Remote Sensing (IIRS),ISRO,Dehradun
19	Remote Sensing and GIS Technology and Applications for University Teachers and Government Officials	13-06-2020 01-07-2020	to	Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun
20	Opportunities and challenges in next-generation semiconductor devices".	16/06/2020 20/06/2020	to	ANITS College

21	Mobile Ad Hoc Networks - A Reliability Perspective	11/06/2020 to 13/06/2020	Bhimavaram Institute of Engineering & Technology
22	PN junction and Metal Semiconductor contact	05/06/2020 to 06/07/2020	COURSERA
23	Artificial Intelligence	25-05-2020 to 29-05-2020	AICTE
24	Micro strip antenna for advanced wireless communication.	15/05/2020 &16/05/2020	KHIT Guntur
25	Multi-carrier modulation in broad band communication and technology in 5G.	29/05/2020 to 30/05/2020	Raghu Engineering college
26	VLSI Technology in Hardware for AI &MI.	25/05/2020 to 27/05/2020	GMRIT
27	Embedded system design on 8-bit micro-controller using KEIL software	29.05.2020 & 30.05.2020	ANITS College
28	Cyber security	03/06/2020 to 05/06/2020	Anurag University
29	FPGA design for embedded systems	12/05/2020 to 31/05/2020	COURSERA
30	Completed the course in Design and Verification using Verilog	06/04/2020 to 11/04/2020	EXCEL VLSI Technologies, Bangalore.
31	IOT Wireless and Cloud Computing Emerging Technologies	18/03/2020 to 08/04/2020	COURSERA
32	Real time Embedded Systems & IoT, its applications	02/06/2018 to 08/06/2018	E&ICT academy NIT Warangal at RIT Visakhapatnam

Visit to outside institute/organization:

S. No	Instt. Organization visited	Purpose of visit
NILL		

Continuing Education / QIP Short Term Lectures / Special Lectures given:

S. No.	Title of Lecture / Lecture Series	Place
NILL		

Details of professional training and research experience

S.No.	Title of the Course	Place	Year	Duration
NILL				

Projects
Sponsored R & D, Consultancy Projects:

S. No	Title of Project	Funding Agency	Financial Outlay	Project Period	Project Status
NILL					

Awards and Honors
NILL

Additional Responsibility
RESPONSIBILITIES WITHIN THE INSTITUTE:

POSITIONS HELD OUTSIDE THE INSTITUTE:
Nill