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Area of Specialization	:	Computer Vision, Deep Learning, VLSI Design
Subjects Handled	:	Digital Electronics VLSI Design Basic Electrical, Electronics and Measurement Engineering Basic Electrical and Instrumentation Engineering Control Systems Electronic Instrumentation Transducer Engineering Digital Principles and System Design Electronic Devices and Circuits
Books Published	:	-
Journals Published	:	1. Jayaprakash J, **Angelin Ponrani M**, Jothi Lakshmi R, Juanola Pearl J, "Planning and Coordination of Relay in Distribution System Using ETAP", Pak. J. Biotechnology Vol. 13 No. special issue 1, 2016. Pp. 252- 256. 2. **Angelin Ponrani M** and R Vel Murugan," SPWM Generator Based on FPGA for High Switching Frequency DC/AC Inverters", International Journal of Electronics & Electrical Engineering &Telecommunications, Vol. 4, No. 1, January 2015. 3. **Angelin Ponrani M**, G. Manoj R. Rajesvari M," Module based Partial Reconfiguration on Bitstream Relocation Filter", International Journal of Computer Applications, Volume 66– No.10, March 2013. 4. Rajesvari.R, Manoj.G, **Angelin Ponrani M**," System on Chip Design (Soc) for Telecommand system Design", International

		Journal of advanced research in computer and communication Engineering, Vol. 2, Issue 3, March 2013. 5. **M. Angelin Ponrani**, Monika Anand, Mahmood Alsaadi, Ashit Kumar Dutta, Roma Fayaz, Sojomon Mathew, Mousmi Ajay Chaurasia, Sunila, Manisha Bhende,"Brain-computer interfaces inspired spiking neural network model for depression stage identification",Journal of Neuroscience Methods,2024
Conference /Workshop Attended	:	**Conferences Attended** 1. **M.Angelin Ponrani** & A.Kirthini Godweena ," Aircraft Pitch Control Using PID Controller", 4th IEEE - International Conference on Systems, Computation, Automation and Networking (ICSCAN-21), Manakula Vinayagar Institute of Technology, Puducherry.(30th -31st July 2021) DOI: 10.1109/ICSCAN53069.2021.9526373 (**Best Paper Award)** 2. **M.Angelin Ponrani**, "Aircraft Pitch Control Using PID Controller" International Conference on Recent Developments in Engineering Management Sciences and Technology (ICRDET'20), Dhaanish Ahmed College of Engineering, Chennai 26/6/20. 3. **M.Angelin Ponrani**, J Jayaprakash "Planning and Coordination of Relay in Distribution system ETAP", International Conference, Karpagam College of Engineering, Coimbatore. (17th – 18th March 2016). 4. **M.Angelin Ponrani**, R Vel Murugan "Development of FPGA based modified SPWM Generator for high Switching Frequency DC/AC Inverters", International Conference, Kongu Engineering College, Erode. (26 March 2014). 5. R. Rajesvari, G. Manoj, **M.Angelin Ponrani**, Merin Annie Joy" IP core-based architecture of telecommand System-on-Chip (SoC) for spacecraft applications", 2013 IEEE International Conference on Signal Processing, Image Processing & Pattern Recognition, Karunya University, Coimbatore. (7-8 Feb 2013) DOI: 10.1109/ICSIPR.2013.6497979. 6.**Angelin Ponrani M**,Ezhilarasi P,Rajesh Kannan S, ""Modelling of Intelligence Stereoscopic Vision System Using Adaptive Super-Pixel Based Disparity Estimation Algorithm"International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2024 pp: 1-7 June2024.

7.Godson Jeffery, **M Angelin Ponrani**, M.Mukeshwar has presented a paper entitled "Optimization-Based Path Smoothing for Autonomous Vehicles in Complex Parking Environments Using Hybrid Path Planning Algorithms" in International Conference on Information and Communication Systems (ICICS-2025).

8. **M Angelin Ponrani**, Abishai, Dhamodharan has presented a paper entitled "AI based emergency Assist system for Ambulance" at the 3rd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT-2025) organised by School of Computer Science and Engineering, REVA University, Bengaluru, India during 5-7, February 2025.

9.**M.Angelin Ponrani,** T.Abishek, R.Dhivakar has presented a paper entitled " Enhancing UAV Communication performance through GCN-Driven channel adaptation " at ICSCNA, 2024.

Workshop Attended

1.Completed online Lab Workshop on 'FPGA Architecture and Programming using Verilog HDL' organized by Arm Education and NIELIT Calicut during 4thApril 2022 to 30th April 2022.

2. Attended online Faculty Development Programme (FDPOM-128) on "MATLAB and LabVIEW Programming for Engineering Applications" conducted by NITTTR, Chennai from 24/01/22 to 04/02/22.

3. Attended Five days AICTE Training and Learning (ATAL) Academy online Elementary Faculty Development Program on "FPGA Based Deep Learning Applications in Signal Processing" at KLE Technological University, Hubli, Karnataka from 05/07/21 to 09/07/21.

4. Attended one day webinar on "Robotics and Automation" at Thiagarajar college of Engineering, Madurai on 12/06/21.

5. Attended one-week International Faculty Development Program on "Artificial Intelligence Integrated web services" at Easwari Engineering College, Chennai from 25/05/21 to 29/05/21.

6. Attended one day webinar on "Next Gen Opportunities" at Easwari Engineering College, Chennai on 15/05/21.

7. Attended Five days AICTE Training and Learning (ATAL) Academy online Faculty Development Program on "Artificial Intelligence, machine Learning and Deep Learning" at University Visvesvaraya

	College of Engineering, Bengaluru from 01/02/21 to 05/02/21. 8. Attended Five days AICTE Training and Learning (ATAL) Academy online Faculty Development Program on "Internet of Things (IoT)" at Kongunadu College of Engineering and Technology, Namakkal from 25/01/2021 to 29/01/21. 9. Attended Five days online Faculty Development Program on "Lab on Chip" at Defence Institute of Advanced Technology from 14/12/20 to 18/12/20. 10. Attended Five days AICTE Training and Learning (ATAL) Academy online Faculty Development Program on "Internet of Things (IoT)" at Government College of Technology from 07/12/20 to 11/12/20. 11. Attended one day seminar on "Digitalization in Power System – Asset Performance Management" at ISA South India Section on 19/09/20. 12. Attended Five days Faculty Development Program on "Industrial IoT and Industry 4.0-Smart Industry Automation" at Kongu Engineering College, Perundurai from 11/08/20 to 15/08/20. 13. Attended Five days Faculty Development Program on "Industrial and Process Automation (IPA-2020)" at G. Pulla Reddy Engineering College (Autonomous), Kurnool, Andhra Pradesh from 10/08/20 to 14/08/20. 14. Attended one day webinar on "Robotics - Connecting Engineering Minds", McGraw Hill, IIT Delhi on 22/07/20. 15. Attended Five days Faculty Development Program on "Get ready for AI with MATLab and Simulink" at Sri Sairam Engineering College, Chennai from 18/06/20 to 20/06/20. 16. Attended one day webinar on "Deep Learning for Multi-type Medical Imaging" at St. Joseph's College of Engineering, Chennai on 08/06/20. 17. Attended Five days Faculty Development Program on "Recent trends in VLSI Design" organized by NITTR Chandigarh from 25/05/20 to 29/5/20. 18. Completed a course on "Data Science using R and Python Languages" conducted by Spoken Tutorial, IIT Bombay from 20/04/20

		to 30/04/20.
		19. Attended one week Faculty Development Program on "Advanced Cyber Security" conducted by NITTR Chandigarh at St. Joseph's College of Engineering from 21/10/2019 to 25/10/19.
		20. Completed a course on "Introduction to Research "conducted by NPTEL during August to October 2019.
		21. Attended two days Faculty Development Program on "Machine Learning" at Velammal Engineering College from 26/10/18 to 27/10/18.
		22. Attended one day Faculty Development Program on "Effective Pedagogical Practices" at Sethu Institute of Technology, Kariapatti on 25/11/16.
		23. Attended one week Faculty Development Program on "EE6006-Applied Soft Computing" at Madras Institute of Technology, Anna University, Chennai from 09/06/16 to 15/06/16.
		24. Attended one week Faculty Development Program on "EI2352-Process Control" at Sethu Institute of Technology, Kariapatti from 15/10/14 to 22/10/14.
		25. Attended one week seminar on "Emerging Research Applications in Signal and Image Processing" at Sethu Institute of Technology, Kariapatti from 01/10/14 to 07/10/14.
		26. Attended one day workshop on "Creation of website for academicians in open-source era" at Sethu Institute of Technology, Kariapatti on 09/09/14.
		27. Attended one week Faculty Development Program on "Computer Control of Industrial Process and Automation" at PSG College of Technology, Coimbatore from 26/04/14 to 02/05/14.
		28. Attended one week Faculty Development Program on "EC2354-VLSI Design "MIT Campus, Anna University, Chennai from 09/10/13 to 15/10/13.
		29. Attended one day workshop on "Work Life Balance of Today's Women" at Sethu Institute of Technology, Kariapatti on 05/10/13.
		30. Attended two days' workshop on "Research Methodologies and Property rights" at Sethu Institute of Technology, Kariapatti from 28/11/13 to 29/11/13.

		31. Attended two days' workshop on "Recent Trends in Industrial Instrumentation and its applications" at Sethu Institute of Technology, Kariapatti from 21/11/13 to 22/11/2013

32. Attended FDP on "ICT Integrated Evaluation in Outcome - Based Education" organised by AMET University from 5.01.2024 to 12.01.2024

33. Attended FDP on Modern Research Convergence in Next Generation Computing" organized by Sri Krishna College of Engineering & Technology from 18.12.2023 to 22.12.2023

34. Completed NPTEL course on "Deep Learning" duration from Jan 2024 to April 2024

35. Completed NPTEL course on "Python for Data Science" with ELITE Certification from July to Aug 2024

36. Attended FDP on "OpenCV for Image and Video Processing Applications" organised by NITTTR, Chandigarh from 22/07/2024 to 26/07/2024.

37.Attended Advanced ATAL FDP titled "Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape" at St.Joseph's College of Engineering from 14 .10.2024 - 26.10.2024.

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| **Patent Details** | : | 1.Ms.A.Kirthini Godweena & **Mrs.M.Angelin Ponrani** , has published a patent entitled " A Novel Method for Aircraft Pitch Control" on 10/12/21 . Patent no. 202141050949

2. Dr.Abdul Hannan Abdul MAnnan Shaikh, Dr.R.John MArtin, Mohamed J.Saadh, MEenakshi SAravanan, **M.Angelin Ponrani**, Dr.Sheshang Degadwala, has published a patent entitled "Artificial Intelligence bases approach to predict the impact of Breast Cancer using the algorithms of WSN and Image Processing Techniques" on 9/12/2022. Patent no.202241069187

3.Amit Bhanushali,Latha Thammareddi,Dr. V. Sumalatha,Dr R. Priya,Virendra Pal Singh, **M. Angelin Ponrani**, has published a patent |

		entitled "Data Science Techniques in machine learning for improved lung cancer diagnosis and classification" on 15/12/2023. Patent no. 202341073459
		4. Dr. Belsam Jeba Ananth. M ,Mr. K. P. SenthilKumar,Dr. M. Rajalakshmi,Ms. A V Kiranmai,Mrs. G. Keerthana,Dr. Anushree Deshmukh,Dr. Jyoti Metan, **M. Angelin Ponrani**, Dr. T R Arunkumar Dr. J. Jebathangam Dr. R. Bhuvana, has published a patent entitled " A Convolutional Neural Network-based system for the recognition and voice alert of traffic sign board" on 1/01/2025. Patent no.202541005529
Funded Project Details		-
Awards & Recognition		**Best Paper Award** for presenting the paper entitled **"**Aircraft Pitch Control Using PID Controller", 4th IEEE - International Conference on Systems, Computation, Automation and Networking (ICSCAN-21), Manakula Vinayagar Institute of Technology, Puducherry.(30th -31st July 2021) DOI: 10.1109/ICSCAN53069.2021.9526373