


FACULTY PROFILE FORMAT (Format 3)		
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<b>Anna University Supervisor Recognition No.</b>		2840064
<b>Designation</b>	:	Professor
<b>Qualification</b>	:	M.E., Ph.D
<b>Teaching Experience</b>	:	28 years and 7 months
<b>Area of Specialization</b>	:	Signal and Image Processing, Embedded systems, IoT
<b>Subjects Handled</b>	:	Discrete Time Signal Processing Digital Image Processing Embedded Systems Internet of Things Microprocessors & Microcontrollers Electronic Circuits Electronic Devices and Circuits Principles of Communication Communication Engineering Radar Systems Linear Integrated circuits Digital Principles and system Design
<b>Books Published</b>	:	Image Processing in Biomedical Engineering, “, Scientific International Publishing House (SIPH), 2023
<b>Journals Published</b>		1. Punitha, A ; Ramani, P ; <b>Ezhilarasi, P</b> ; Sridhar, S , “Dynamically stabilized recurrent neural network optimized with intensified sand cat swarm optimization for intrusion detection in wireless sensor network”, COMPUTERS & SECURITY, Vol 148, DOI : 10.1016/j.cose.2024.104094

	<ol style="list-style-type: none"> <li>2. J. Pearline Sheba <b>P. Ezhilarasi</b> S. Rajesh Kannan, “Unveiling the Secrets of Brain Tumors: A Fuzzy C-Means and U-Net Convolution Approach for Enhanced Segmentation”, International Journal of Computers Communications &amp; Control, Vol. 19, No. 2 , 2024 (Q3)</li> <li>3. Alqahtani A S, Trabelsi Y, <b>P. Ezhilarasi</b>, Krishnamoorthy R, S. Lakshmisridevi, S. Shargunam, “Homomorphic encryption algorithm providing security and privacy for S Rajeshkannan. J.Sivakumar, <b>P.Ezhilarasi</b>, “Automatic detection of COVID-19 in chest radiographs using serially concatenated deep and handcrafted features,” Journal of X-ray Science and technology, vol. 30, no. 2, pp. 231-244, 2022, DOI : 10.3233/XST-211050 (Q2)</li> <li>4. K. K. Arun, S. Rajeshkannan , <b>P. Ezhilarasi</b> , L. Natrayan, “A preliminary study on the reactive suspension approach to create bioactive polymer nanocomposites for dental applications’, Digest Journal of Nanomaterials and Biostructures Vol. 17, No. 3, , p. 931 – 939, July - September 2022, DOI: 10.15251/DJNB.2022.173.931 (<b>SCIE</b>)</li> <li>5. Brindha, G &amp; <b>Ezhilarasi, P</b>, ‘Energy Efficient Momento Based Dynamic Scheduling for Lifetime Maximization in WSN’, Journal of Ambient Intelligence and Humanized Computing (ISSN 1868-5137), Vol.12, No. 6 Page No;5865-5875, June 2020 DOI: 10.1007/s12652-020-02131-7. (<b>SCIE</b>) ( <b>Impact factor 7.104</b>) , ( <b>H Index 28</b>)</li> <li>6. <b>Ezhilarasi, P</b> &amp; Nirmalkumar, P, ‘Algorithmic based VLSI architecture of Integrated Image Compression for CMOS Image Sensor’, National Academy Science Letters-India (Springer) , vol.38, no.1, pp.49-59 , <b>Feb</b> 2015 .(<b>SCIE</b>, ISSN: 0250-541X, Impact factor : 0.788)</li> <li>7. D Beulah Princiba, <b>P Ezhilarasi</b>, S Rajeshkannan, “CSMEC-based deep learning model for detection and classification of brain tumours in MR images Neural Computing and Applications”, Neural Computing and Applications,36 (29), 18479-18498, 2024 (Q1)</li> <li>8. S. Hemalatha, Shalini, <b>P. Ezhilarasi</b>, Thilagham K, “Enhancing Cluster Node Forming Routing Protocol in Mobile Adhoc Network”, International Journal of Engineering Trends and Technology, Vol. 72 , No. 5, PP:185-193, 2024</li> <li>9. V. L. Raja, A. M. Senthil Kumar, K. Shantha Kumari, R. Bharanidharan, <b>P. Ezhilarasi</b>, S. Rajeshkannan, T. M. Nithya, S. Venkatesh Kumar, "Analytical and Neural Network Analysis on Flux-Coated Aluminium Alloy by Activated TIG Welding with Synthesized Nanocomposites", Journal of Nanomaterials, vol. 2023, Article ID 3657314, 11 pages, 2023. <a href="https://doi.org/10.1155/2023/3657314">https://doi.org/10.1155/2023/3657314</a> ( Scopus)</li> <li>10. Brindha, G &amp; <b>Ezhilarasi, P</b>, “Topology Driven Cooperative Self Scheduling for Improved Lifetime Maximization in WSN”, Computer System Science Engineering, Vol 45 issue no. 1, pp 445-458; 2022 , <a href="https://doi.org/10.32604/csse.2023.027329">https://doi.org/10.32604/csse.2023.027329</a> (<b>SCIE</b>)</li> <li>11. <b>Ezhilarasi.P</b>, Rajeshkannan S, &amp;Gokulaprasath P, “Smart Health Monitoring System”, Journal of Computational and Theoretical Nanoscience, Vol 17, Number 5 pp 2261-2265 (5), May 2020. (<b>DOI</b>: <a href="https://doi.org/10.1166/jctn.2020.8881">https://doi.org/10.1166/jctn.2020.8881</a> ) (<b>Scopus indexed</b>).</li> <li>12. G.Brindha , P. Sudha Juliet , <b>P.Ezhilarasi</b> and Dr.T.Sasilatha , “An Advanced Optimized Transmission Technique for Parameter Estimation in WSNS”, Solid State Technology, Volume: 64Issue: 2, 2021</li> </ol>
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13. T.Sasilatha, Karthickmanoj.R, K.Balamurugan, **P.Ezhilarasi**, S.Arun, "'Role of Compressed Sensing based Image Sensor for Smart Surveillance Applications", TEST Engineering and Management (ISSN: 0193-4120), Volume-82, PP No. 1982 - 1985 publication issue: January -February 2020, January 2020 .(**Scopus indexed**) (**H Index 5**)
14. T.Sasilatha, M.Parameswari, **P.Ezhilarasi**, Balaji, S.Arun, "Valuable Vitality Remote Perceiving in Cloud IOT", TEST Engineering and Management (ISSN: 0193-4120), Volume-82, PP No. 1986 - 1992 publication issue: January -February 2020, January 2020 (**Scopus indexed**) (**H Index 5**).
15. **P. Ezhilarasi**, S. Rajeshkannan, Kovendan. A K P, T. Sasilatha, K. R. Kayalvizhi, "Damaged Number Plate Recognition", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9, Issue-1S2, pp 22-25, December 2019. (DOI: 10.35940/ijeat.A1018.1291S219) (**Scopus indexed**) (**B Impact factor 5.97**).
16. **Ezhilarasi, P** & Nirmalkumar, P, 'A combined approach for lossless image compression technique using curvelet transform', International Journal of Engineering and Technology, vol.6, no.3, pp.1487-1494,2014 (**Scopus indexed** ,ISSN : 0975-4024).
17. **Ezhilarasi, P** & Nirmalkumar, P, 'An Efficient Image Compression by Overlapped Discrete Cosine Transform with Adaptive Thinning', International Journal of Engineering Research and Applications, vol.8, no.5, pp.1675-1681, 2012 (ISSN : 2248-9622)
18. Rajeshkannan S, **Ezhilarasi P**, et.al, " Efficient Cloud based Automated Brain Segmentation using 3D Printing Application", Stochastic Modeling & Applications, vol.26, no.3, pp . 1185-1198, January- June 2022, Issn : 0972-3641.
19. Abishk.R, Rajeshkannan S, **Ezhilarasi P**, et.al " Smart Health Integrated Screening System using smart mirror", Stochastic Modeling & Applications, vol.26, no.3, pp . 1199-1208, January-June 2022, Issn : 0972-3641.
20. Angelin Ponrani, M., **Ezhilarasi, P**, Rajeshkannan 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
21. Sekhar J.C., **Ezhilarasi P**, Bordoloi. D, Sisodia. S, Shobana. A, "Access Control in E- Health Records Employing Mobile Cloud Computing Model and Big Data Analytics", 6<sup>th</sup> International Conference on Inventive Computation Technologies, ICICT 2023(**IEEE**)-Lalitpur, Nepal, 2023, pp. 1058-1064, doi: 10.1109/ICICT57646.2023.10134187. (**Scopus**)
22. Pearline, **Ezhilarasi P**, "Enhanced Marker-Controlled Watershed Segmentation Algorithm for Brain Tumor Segmentation", Communications in Computer and Information Science, Springer [Communications in Computer and Information Science](https://doi.org/10.1007/978-3-031-10766-5_12) book series , CCIS,volume 1579, pp. 154–166, July 2022, DOI: [https://doi.org/10.1007/978-3-031-10766-5\\_12](https://doi.org/10.1007/978-3-031-10766-5_12) (Scopus)
23. Shruthi S, Priya dharshini, Ranjith Raj B, Vaddi Lakshmi Satya S Sai Sarojini **Ezhilarasi P** Rajesh Kannan S "Anxiety Controlling Wrist Band" Advances in Parallel computing, IOS Publisher, Vol. 38, PP. 145- 154, 2021 (Scopus)

	<p>24. <b>Ezhilarasi, P</b> &amp; Nirmalkumar, P , ‘An Efficient Image Compression by Improved DCT with Adaptive Thinning’, International Conference on Research and Development Prospectus on Engineering and technology, ICRDPET’12, pp. 898-902, 2013.</p> <p>25. <b>Ezhilarasi, P</b> &amp; Nirmalkumar, P, ‘An Enhanced Anti Artifacts Compressive Approach for CMOS Image Sensor’, International Conference on communication and signal processing, ICCSP’13, pp. 1037-1041, 2013.</p> <p>26.</p>
Conference Presented/ Attended	<p>27. L Venkatraman, S Niksheetha, <b>P Ezhilarasi</b>, S Rajeshkannan “Cipher Care: Multi-Authentication Video Steganography powered “, <i>IEEE International Students’ Conference on Electrical, Electronics and Computer Science (SCEECS)</i>, 2024</p> <p>28. G.Shahana <b>P. Ezhilarasi</b>, S. Rajeshkannan, “Adaptive Neuro Fuzzy Data Aggregation Model for Developing and Planning for Aquaculture Farming Practices," <i>International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)</i>, Chennai, India, 2023, pp. 1-8, doi: 10.1109/ACCAI58221.2023.10200854</p> <p>29. Rajesh Kannan S; <b>Ezhilarasi P</b>; Rajagopalan VG; Sushanth Krishna mithran; Ramakrishnan H; Harish Kumar Balaji "Integrated AI Based Smart Wearable Assistive Device for Visually and Hearing-Impaired People," <i>2023 International Conference on Recent Trends in Electronics and Communication (ICRTEC)</i>, Mysore, India, 2023 pp. 1-6, doi: 10.1109/ICRTEC56977.2023.10111863. (Scopus)</p> <p>30. Priyadharshini. S &amp; Ezhilarasi. P, “A Case Study on Non-Invasive Plant Health Diagnosis Using Multi-View Stereo Spectral Imaging”, IEEE International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering, RMKMATE 2023, PP: 1-7 (Scopus)</p> <p>31. G.Shahana <b>P. Ezhilarasi</b>, S. Rajeshkannan, “ Comparison of Mamdani and Sugeno fuzzy based data aggregation models for developing smart aquaculture system”, second International Conference on Innovative Computing, Intelligent Communication and Smart Electrical systems (ICSES -2022), ICSES 393, 2022</p> <p>32. K R Kayalvizhi, Kovendan. AKP, <b>P. Ezhilarasi</b>, S. Rajesh Kannan, “A novel methodology enabling underwater LI-FI communication for sea divers” AICTE sponsored national conference on recent advances in on-board ship automation, 26th and 27th September 2019</p> <p>33. Brindha.G, <b>Ezhilarasi.P</b>, “Enhanced Sink Relocation with Ant Colony Optimization “, International conference on Innovations in Engineering, Technology &amp; Management, pp 10- 22, 18 May 2019.</p> <p>34. Brindha.G, <b>Ezhilarasi.P</b> &amp; Thanigaivelu, ‘Transmission Range Adjustment for Enhancing Network Lifetime for WSN, IEEE International Conference on Computer, Communication and Signal Processing, ICCSP’2018, (<i>IEEE digital library</i>), pp. 170-175, February 2018.</p> <p>35. Brindha.G, <b>Ezhilarasi.P</b>, “Transmission Distance and Transmission Range based Unequal Clustering Protocol to prolong the Network Lifetime in WSNs”, International conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE) 2018</p>

	<div>36. Geetha. B &amp; <b>Ezhilarasi.P</b>, ‘An Efficient Skin Segmentation Algorithm For Criminal Identification Using Vein Patterns’, International Conference on Electrical, Electronics, Instrumentation and Computer Communication, pp 309-313, January 2018.</div> <div>37. <b>Ezhilarasi, P</b> &amp; Nirmalkumar, P, ‘Integrated Image Compression by Predictive Boundary Adaptation with QTD and Adaptive Thinning’, Advances in computer and communication technology IETE conference, Bombay, pp.53-58, 2012.</div> <div>38. Attended International Conference on Wireless Communication Networks, SSNCE, June 27-29, 2003. Chennai</div>								
FDP Conducted	<div><div>• Anna University Approved Faculty Development Training Programme on ‘<b>EC6801-WIRELESS COMMUNICATION</b>’ from 03<sup>rd</sup>December 2018 to 15<sup>th</sup>December 2018.</div><div>• Anna University Sponsored ( Rs.30,000) Faculty Development Training Programme on ‘<b>EC8702-AD HOC AND WIRELESS SENSOR NETWORKS</b>’ , from 27<sup>th</sup> June 2022 to 02<sup>nd</sup> July 2022.</div></div>								
FDP/Workshop Attended	<div><div>➤ Workshop : VLSI &amp; Embedded System Tool, CEG, Anna University, Chennai</div><div>➤ Workshop : Research Methodologies , Anna University , Trichy</div><div>➤ National Level Workshop on VLSI &amp; Embedded Systems. SRM University. Kattankulathur, T.N.</div><div>➤ FDP : Re- Engineering Teaching Skills, CEG, Anna University, Chennai</div><div>➤ FDP: Principles of Digital Signal Processing, Adhi College of Engineering , Sankarapuram</div><div>➤ STTP on VLSI and IOT Application in SRM university</div></div>								
Patent Details	<table><tr><th>S.No</th><th>PatentTitle</th><th>NameofApplicant(s)</th><th>Status</th></tr><tr><td>1</td><td>Design A Low-Cost Green Power Divining Farming Using IoT and Cloud Computing</td><td>Dr. S.Rajeshkannan <b>Dr. P.Ezhilarasi</b> Dr. J. Sivakumar</td><td>Published</td></tr></table>	S.No	PatentTitle	NameofApplicant(s)	Status	1	Design A Low-Cost Green Power Divining Farming Using IoT and Cloud Computing	Dr. S.Rajeshkannan <b>Dr. P.Ezhilarasi</b> Dr. J. Sivakumar	Published
S.No	PatentTitle	NameofApplicant(s)	Status						
1	Design A Low-Cost Green Power Divining Farming Using IoT and Cloud Computing	Dr. S.Rajeshkannan <b>Dr. P.Ezhilarasi</b> Dr. J. Sivakumar	Published						

		2	Development of Next Generation Eco Air Purifier Device with Intelligent Air Quality Monitoring and Disruptive Module	Dr. S.Rajeshkannan <b>Dr. P.Ezhilarasi</b> Dr. J. Sivakumar Dr. B. Vasudevan	Published
		3	Smart Mobile Phone Deposit Machine using IoT & Artificial Intelligence Techniques.	Dr. S.Rajeshkannan <b>Dr.P.Ezhilarasi</b> Dr.A.Balamurugan Dr.B.Vasudevan	Published & Applied for Grant
		4	Cost-Effective Multi-Purpose AI Based Drone Using Smartphone	Mr.Harish Kumar Mr.Akash M. B <b>Dr.P.Ezhilarasi</b> Dr. S.Rajeshkannan	Published
		5	A Servo Amplifier Control Device	Mr.Prashant Agrawal Dr.K.G.Revathi <b>Dr.P.Ezhilarasi</b> Dr.P.Hemachandu	Applied for Grant
<b>Funded Project Details</b>		<b>Name of the Funding Event</b>		<b>Funding Agency</b>	<b>Amount Received (in Rs.)</b>
		<b>MSME</b> Idea Development Grant		MSME-Government of India	12,00,000/-
		<b>IIC-MIC</b> Product Development Grant		AICTE & Ministry of Innovation Cell	3,00,000/-
		<b>Samvedan 2021</b> – National Level Sensing Challenge		IITM & Sony Corporation	1,35,000
		<b>India Innovation Design Contest (IIDC)</b> National Level Project Contest		DST, AICTE, Texas Instruments & IIM Bangalore	80,000/-
		Project Prototype Development <b>Indovator 2021</b> National Level Contest		International Centre for Technological Innovation, Kerala	1,00,000/-
		Prototype Development Fund <b>TNSI 2020</b>		EDII – TN Tamilnadu Government	1,00,000/-

		<b>FAER Integra Scholar Program</b> 2022-2023 for UG project.	Foundation for Advancement for Education and Research, Bangalore		6,000/-		
<b>Consultancy</b>		<b>Title</b>	<b>Faculty Involved</b>	<b>Name of the Company</b>	<b>Year</b>	<b>Amount</b>	
		Autonomous Robot Design with Swarm Operation Design SDK (Standard Developing Kit) GUI development for system controlling,Firmware development for Eye ball movement	Dr.S. Rajeshkannan <b>Dr.P.Ezhilarasi</b>	Pantech Pro Labs Pvt. Ltd. Chennai	2019	Rs. 50,000	
		Creation of Customized plug in for Confluence, JIRA and Bitbucket	<b>Dr.P.Ezhilarasi</b> Dr.S.Rajeshkannan Dr.A.M.Balamurugan	Stigmata Techno Solutions, Chennai	2022	Rs. 30,000	
<b>Awards &amp; Achievements</b>		Received Confederation of <b>Elite Academicians</b> Award form DST,AICTE, Texas Instruments& IIM Bangalore					