

K. S. INSTITUTE OF TECHNOLOGY

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Faculty Name	Dr. ELECTA ALICE JAYARANI A
Designation	ASSOCIATE PROFESSOR
Educational Qualification	B.E, M.E, Ph.D.
Experience in Years	18 YEARS
Areas of Interest	SIGNAL PROCESSING
E-mail	electalice@gmail.com



	Educational Details			
	Examination/	College / University	Year of	
	Degree		Passing	
	Ph.D.	Reva University	Jan 2023	
	ME	Mepco Schelenk Engg. College / Madurai Kamaraj University, Tamilnadu, India.	April 2003	
	BE	VLB Janakiammal college of Engg & Tech, /Bharathiyar University, Tamilnadu, India.	April 2001	

Publications

- Journal Publications: Electa Alice Jayarani A., Bhagyalakshmi V., Reegan J, (2023), "Lexicon Based Sentimental Analysis using R", Journal of Harbin Engineering University, Vol. 44 No. 9 (2023): Issue 9, 319 – 324.
- 2. https://harbinengineeringjournal.com/index.php/journal/article/view/1280
- 3. Appadurai, E. A., Bhatt, M. R., & D.D., G. (2020). "Semi Fragile Audio Crypto-Watermarking based on Sparse Sampling with Partially Decomposed Haar Matrix Structure", Acta Cybernetica, 24(4), 679-697
- 4. Electa Alice Jayarani.A, Mahabaleswara Ram Bhatt, Geetha. D.D. (2020). "Developing the Compressive Sensing Basis Matrix by Employing the Music Key as a Watermark and Acquire the Audio Signal". International Journal of Advanced Science and Technology, 29(05), 2492 2498.
- Electa Alice Jayarani.A, "A Survey On Copyright Protection Of Audio Signals And Study On The Robustness And Performance Assessment Factors", Journal of Critical Reviews ISSN- 2394-5125 Vol 7, Issue 7, 2020, 112-119.
- 6. "Audio Watermarking Based on Compressive Sensing", at Journal of Advanced research in Dynamical and control systems, Vol. 11, 02-Special Issue, 2019, 1654-1659, ISSN: 1943-023X.
- 7. "An Introduction To Sparse Sampling On Audio Signal By Exploring Different Basis Matrix", at Advances in Intelligent Systems and Computing, May 2019, ISSN: 2194-5357.
- 8. "DCT Based Compressive sensing for Audio Signal Acquisition", at International Journal of Pure and Applied Mathematics, Volume 119, no14, 2018, 111-114, ISSN: 1314-3395.
- 9. "Zero watermarking on Audio Based on STFT", accepted to get published at IEEE Digital

- Explore.
- 10. "On Sparse Audio Data watermarking by Exploiting Haar Transform Structures" at IEEE Digital Explore, doi: 10.1109/ICAECC.2018.8479528.
- 11. "Manipulating the absolute phase of Audio to embed a watermark for robustness against compression", at International Journal of Science, Engineering & Technology, ISSN (O): 2348-4098 . ISSN (P): 2395-4752, 2017.
- 12. "Twitter Based Automation with Security and Safety System", at International Journal of Science, Engineering & Technology, ISSN (O): 2348-4098, ISSN (P): 2395-4752, 2017.
- 13. "Analyzing the Audio Watermarking Schemes and Features" at International Journal of Research in Engineering and Technology, volume 5, Special issue 04, may 2016.
- 14. "A CSI Adaptive Optimal Relay Network Design Based on PN –SNR For MIMO Networks", at International Journal of Research in Engineering and Technology, volume 5, Special issue 04, may 2016.
- 15. "Design of High Performance Low Power MUX using Circuit Level Optimization in Cadence", at International Journal of Research in Engineering and Technology, volume 5, Special issue 04, may 2016.
- 16. "Design of 4-bit Non –Volatile SRAM using Magnetic Tunnel Junction" at International Journal of Research in Engineering and Technology, volume 5, Special issue 04, may 2016.
- 17. "Converge Casting in wireless sensor Network through ALBA-P protocol", at International Journal of Engineering Research & Technology- IJERT, volume 3, Issue 19, 2015.
- 18. "Providing Enhanced Reliability using Reactive Protocol for wireless Sensor network", at International Journal of Engineering Research & Technology- IJERT, volume 3, Issue 19, 2015.

Conference Papers:

- 1. "An Introduction to Sparse Sampling on Audio Signal by Exploring Different Basis Matrix" at International Conference on Artificial Intelligence and data Engineering (AIDE 19) at NMAM Institute of Technology, Nitte, Karnataka on 23-24th May 2019.
- "DCT Based Compressive sensing for Audio Signal Acquisition", at International Conference on Applied Engineering Sciences and Management (ICAEM-2018) at K.S.School of Engineering and Management, Bengaluru on 12-13 Oct 2018.
- 3. "Zero Watermarking On Audio Based on STFT" at 2018 International Conference on Computing, Electronics & Communications Engineering (iCCECE) at University of Essex, Southend, London on 16-17th Aug 2018.
- 4. "On Sparse Audio Data watermarking by Exploiting Haar Transform Structures" at 2018 Second International Conference on Advances in electronics, Computers and Communications (ICAECC -2018) at Reva University, Bengaluru on 9-10th Feb 2018.
- 5. "Analysing the Audio Watermarking Schemes & Features", at the International Conference on Engineering, Science, management and Advances in Research Technology ICESMART -16 at T.John Institute of Technology, Bengaluru on $5 6^{th}$ May 2016.
- 6. **"Watermarking on various multimedia data"** the International Conference on Engineering, Science, management and Advances in Research Technology ICESMART -15 at T.John Institute of Technology, Bengaluru on 29 30th April 2015.
- "Blind Audio Watermarking based on EMD and DCT" at The International Conference on trends in Engineering –ICMACE-14 at Tamizhan college of Engineering, Tamilnadu, India on 19 -20th February 2014.
- "MATLAB Simulink Design model for Detection of Abandoned Objects" at the International Conference on Convergence of Science, Engineering and Mangament-ICCSEM2013 at Dayansagar College of Engineering, Bangalore, India on 26-27th September 2013.

Patents Filed:

1. AUSTRIAN PATENT

Title of the Invention: A System Monitoring For Harvesting Of Farming Using Drone Technology Application Number: 2020101843

Status: Granted

2. UK PATENT

Title: Hybrid Electric Pole Design number: 6288963

Status: Granted

3. INDIA PATENT

Title: Drone seed replants trees to keep forest healthy

Application number: 202241061051

Status: Published
4. INDIA PATENT

Title: DIY Power Bank with Plasma Lighter Application number: 202341030798A

Status: Published

Awards

Professional Membership

- Life Member of Indian Society of Technical Education
- Full time Professional Member of International Association of Educators and Researchers (IAER

Contact Details

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