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# **LIST OF PUBLICATIONS**

### A. International Journals

- i. Reshma V. K., **Vinod Kumar R. S.,** Shahi D., Shyjith M B, "Chicken-Moth Search Optimization-Based Deep Convolutional Neural Network for Image Steganography" Scalable Computing: Practice and Experience, ISSN 1895-1767, Vol 21, Issue 2, pp. 217–232, DOI 10.12694:/scpe.v21i2.1664 (SCOPUS)
- ii. Reshma, V. K., **Vinod Kumar, R. S.,** Shahi, D., Shyjith M.B, "Optimized Support Vector Neural Network and Contourlet Transform for Image Steganography" Evolutionary Intelligence (2020), Springer Link Search: https://doi.org/10.1007/s12065-020-00387-8 (SCOPUS)
- iii. Reshma V. K., **Vinod Kumar R. S.,** "Pixel Prediction-Based Image Steganography by Support Vector Neural Network", The Computer Journal:Oxford University Press, doi: 10.1093/comjnl/bxaa017 (Science Citation Index) Published Online.
- iv. Kuruvilla John, **Vinod Kumar. R. S.**, Kumar S. S., "Low Power Pulsed Flip-Flop with Clock Gating and Conditional Pulse Enhancement", International Journal of Automation and Control. (Accepted). (SCIe)
- v. Shanila N., **Vinod Kumar. R. S.**, Ramya Ravi. R., "Segmentation of Liver Computed Tomography Images using Dictionary based Snakes", International Journal of Biomedical Engineering and Technology (Accepted). (SCIe).
- vi. Shanila N., **Vinod Kumar. R. S.**, Ramya Ravi. R., 'Performance Analysis of Preprocessing Filters Using CT Images for Liver Lesion Diagnosis, International Journal of Biomedical Engineering and Technology (Accepted). (SCIe).
- vii. Shanila N., and **Vinod Kumar. R. S.,** "Performance Evaluation of Various Active Contour Models for Liver Boundary Detection in Abdomen Computed Tomography Images", Journal of Critical Reviews. Vol 7, Issue 3, pp. 143-147, 2020, DOI: 10.31838/jcr.07.03.27 (SCOPUS).
- viii. Shanila N., **Vinod Kumar. R. S.,** and Abin. N. A., "Feature Extraction and Performance Evaluation of Classification algorithms for Liver Tumor Diagnosis of Abdominal Computed Tomography Images", Journal of Advanced Research in Dynamical and Control System, Vol. 12, Issue 3, pp. 82-90, DOI: 10.5373/JARDCS/V12I3/20201169 (SCOPUS)
- ix. Shahi.D., and **Vinod Kumar. R. S** "Reversible Steganography for RGB Images Using Image Interpolation", Journal of Advanced Research in Dynamical and Control

- System Vol. 12, issue 3, pp. 41-49, DOI: <u>10.5373/JARDCS/V12I3/20201165</u> (SCOPUS)
- x. Shanila N., **Vinod Kumar. R. S.**, and Ramya Ravi. R., 'A survey on Methodology based Medical Image segmentation Techniques and their Applications, Journal of Advanced Research in Dynamical and Control System, Vol. 11, 09- Special Issue, pp. 612-622, 2019. (SCOPUS)- *DOI*: 10.5373/JARDCS/*V11*/20192613.
- xi. Kuruvilla John, **Vinod Kumar. R. S.**, Kumar S. S., 'Design of Conditional Pulse Enhancement Flip-Flop Embedded with Clock Gating and Signal Feed-through Mechanism', Journal of Engineering Science and Technology, Vol. 14, No. 4, pp. 2000-2012, August 2019. (SCOPUS)
- xii. Kuruvilla John, **Vinod Kumar. R. S.**, Kumar S. S., 'Effect of Clock Gating in Conditional Pulse Enhancement Flip-Flop for Low Power Applications', Indonesian Journal of Electrical Engineering and Informatics, Vol. 7, No. 2, pp. 357-365, June 2019

  (SCOPUS)- *DOI*: 10.11591/ijeei.v7i2.1041.
- xiii. Kuruvilla John, **Vinod Kumar. R. S.**, Kumar S. 'A Novel Design of Synchronous Counter for Low Power and High Speed Applications', International Journal of Engineering and Advanced Technology, Vol. 8, No. 4, pp. 779-783, April 2019. (SCOPUS)
- xiv. Ramya Ravi, R., **Vinod Kumar. R. S.**, N. Shanila, "Segmentation of Melanoma using Triclass Thresholding in Dermoscopic Images", Journal of Advanced Research in Dynamical and Control System, Vol. 11, 06-Special issue, 2019, pp. 1603-1609, Aug. 2019 (SCOPUS)
- xv. Ramya Ravi. R., **Vinod Kumar. R. S.**, and Shanila N., 'Artifacts Removal in Melanoma Using Various Pre-processing Filters', International Journal of Engineering & Technology (UAE). Vol. 7, No. 3.27, pp. 104-107, 2018. (SCOPUS)- *DOI*:10.14419/ijet.v7i3.27.17664.
- xvi. Kuruvilla John, **Vinod Kumar. R. S**. & Kumar. S.S, 'Design of Low Power and High Speed Implicit Pulse Flip-Flop and its Application', International Journal of Engineering and Technology. Vol. 7, No. 3, pp. 1893-1898, 2018. (SCOPUS) DOI: 10.14419/ijet.v7i3.1 2845
- xvii. Kuruvilla John, **Vinod Kumar. R. S**. & Kumar. S.S., 'Impact of Pulse-Triggered Flip-Flops in Low Power Applications', Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, No. 01, pp. 298-306, May 2018. (SCOPUS) -
- viii. Vinod Kumar. R. S, & S. Arivazhagan, 'Adaptive Patch Based Texture Synthesis Using Contourlet Transform', Journal of Intelligent and Fuzzy Systems. Vol. 28, No.3, pp.1061 1070, May 2015. (SCI) DOI: 10.1109/TIP.2005.859376
  - xix. **Vinod Kumar. R. S**, & S. Arivazhagan, 'Region Completion in a Texture using Multiresolution Transforms', *International Journal of Engineering-TRANSACTIONS B: Applications*, Vol.27, No.5, pp.747-756, 2014. (SCOPUS) DOI: 10.5829/idosi.ije. 2014. 27. 05b.10
  - xx. **Vinod Kumar. R. S,** & S. Arivazhagan, 'Methods for Non Uniform Patch Based Texture Synthesis using Random Selection of Patches', *International Review on Computers and Software*, Vol. 8, No.6, pp.1390-1399, 2013. (SCOPUS)

xxi. **Vinod Kumar. R. S,** & S. Arivazhagan, 'Adaptive Patch Based Texture Synthesis Using Modified Boundary Determination Technique', *European Journal of Scientific Research*, Vol.77, No.4, pp.495-507, 2012. (SCOPUS).

## **B.** International Conferences

- i. Reshma V. K., **Vinod Kumar R. S.**, "EEG Emotion Recognition and Detection using Deep Convolutional Neural Network" International Conference on "Electrical Sciences" ICES-2020,SNS College of Technology, Coimbatore, Tamil Nadu, India, in Association with AIMST University Malaysia, 20<sup>th</sup> 21<sup>st</sup> February 2020.
- ii. Kuruvilla John, **Vinod Kumar. R. S.** & Kumar. S.S., 'Performance of Implicit Pulsed Flip-Flops in Low Power and High Speed Applications', 2<sup>nd</sup> International Conference on Frontiers in analytical and clinical techniques on 24<sup>th</sup> and 25<sup>th</sup> January 2019, at Noorul Islam Center for Higher Education, Kumaracoil.
- iii. Ramya Ravi R, **Vinod Kumar R. S**. & Shanila N., 'Review on Various Segmentation Methods for Melanoma Detection', 2<sup>nd</sup> International Conference on Frontiers in analytical and clinical techniques on 24<sup>th</sup> and 25<sup>th</sup> January 2019, at Noorul Islam Center for Higher Education, Kumaracoil.
- iv. Shanila N, **Vinod Kumar R. S.** & Ramya Ravi R., 'Medical Image Segmentation and its Application: A Survey', 2<sup>nd</sup> International Conference on Frontiers in analytical and clinical techniques on 24<sup>th</sup> and 25<sup>th</sup> January 2019., at Noorul Islam Center for Higher Education, Kumaracoil.
- v. Kuruvilla John, **Vinod Kumar. R. S.** & Kumar. S.S., 'Performance Comparison of Explicit Pulsed Flip-Flops in Low Power and High Speed Applications', International Conference on Circuits and Systems in Digital Enterprise Technology on 21<sup>th</sup> and 22<sup>th</sup> December 2018, at Noorul Islam Center for Higher Education, Kumaracoil.
- vi. Kuruvilla John, **Vinod Kumar. R. S**. & Kumar. S.S., Impact of Pulse-Triggered Flip-Flops in Low Power Applications, 36<sup>th</sup> International Conference on recent trends in Science, Management and Engineering on 24<sup>th</sup> & 25<sup>th</sup> November 2017.
- vii. **Vinod Kumar. R. S,** & Balu. B, "An analysis for co-operative control of multi missile for Static Target System", *International Conference on Trends in Computational Engineering & Technology*, on 18<sup>th</sup> & 19<sup>th</sup> February 2016.
- viii. **Vinod Kumar. R. S,** & S. Arivazhagan, "Adaptive Patch Based Texture Synthesis using Wavelets", *IEEE sponsored International Conference on Signal Processing Computing, Communication and Networking Technologies, (ICSCCN 2011)* on 21<sup>st</sup> and 22<sup>nd</sup> July 2011.
- ix. **Vinod Kumar. R. S**, & S. Arivazhagan, "Effects of Variation of Patch Size and Seam Size in Patch Based Texture Synthesis", *IEEE sponsored 2nd International Conference on Computing, Communication and Networking Technologies, (ICCCNT'10)*, on 29<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> July 2010. doi: 10.1109 / ICCCNT. 2010. 5591571.

### C. National Conferences

i. **Vinod Kumar. R. S** & A. K. Aswathy, "An enhanced Image Steganography using H-LSB technique and Wavelet Transform", *National Conference on Recent Advances in Engineering, Science & Technology, (BIOMED' 17)*, on 28<sup>th</sup> March 2017.

- ii. **Vinod Kumar. R.S.,** & S. Shameem, "Adaptive Patch based texture synthesis using wavelets", *National Conference on Emerging Trends in Electronic World*, (*RETREW'11*), on 11<sup>th</sup> March 2011.
- iii. **Vinod Kumar. R. S.,** & Amritha Mary A. S, "Adaptive Patch based Texture Synthesis", 5<sup>th</sup> National Conference in VLSI design and Information Technologies, on 5<sup>th</sup> April 2011.
- iv. **Vinod Kumar. R. S.** & Simi S Raj, "Speech De-noising using Teager Energy Operator", *National Conference on Emerging Trends in Communication and Networking (ETCN-2010)* on 10<sup>th</sup> April 2010.
- v. **Vinod Kumar. R. S.** & Sreelekshmi. G., "Wavelet based local Patch Based Texture Synthesis", *National Conference on Emerging Trends in Communication and Networking (ETCN-2010)* on 10<sup>th</sup> April 2010.
- vi. **Vinod Kumar. R. S.** & Vani Dheepa., "Removal of Visual Artifacts in Patch Based Texture Synthesis using exact neighborhood matching", *National Conference on Recent Trends in Wireless Communication* on 5<sup>th</sup> and 6<sup>th</sup> February 2009.
- vii. **Vinod Kumar. R.S.,** & Jayareshmi, "VLSI Implementation of narrow band interference cancellation algorithm for a global positioning system receiver" *National Conference on Emerging Trends in Information and Communication Engineering* on 27<sup>th</sup> and 28<sup>th</sup> March 2008.
- viii. **Vinod Kumar. R. S.,** & Arun P. L., "Peak to average power ratio reduction of an OFDM signal by Spectral masking", *National Conference on VLSI and Communication* on 16<sup>th</sup> and 17<sup>th</sup> March 2007.
  - ix. **Vinod Kumar. R. S.** "Concealed Weapon Detection using Imaging System", *National Conference on Emerging trends in Communication and Information Technology* on 20<sup>th</sup> and 21<sup>st</sup> January 2006.
  - x. **Vinod Kumar. R. S.** & Ramalo Joy, "Still Image Compression using Fuzzy Logic-based Predictive Coding", *National Conferences on Recent Trends in Communication Techniques (NATCON)* on 4<sup>th</sup> and 5<sup>th</sup> March 2004.