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Area of Specialization: Signal and Image Processing, VLSI, Embedded and Computer Networks

Publications:

1. Sivaranjani Paramasivam, Senthilkumar Athappan, Eswari Devi , Natrajan, and **Maheswaran Shanmugam**, “Optimization of Thermal Aware VLSI Non -Slicing Floorplanning Using Hybrid Particle Swarm Optimization Algorithm -Harmony Search Algorithm”, Circuits and Systems, Vol. 7, No.5, pp. 562-573 (2016).
2. **Shanmugam, M.**, Ramasamy, A. , Paramasivam, S. and Prabhakaran, P. Monitoring the Turmeric Finger Disease and Growth Characteristics Using Sensor Based Embedded System — A Novel Method. Circuits and Systems, Vol. 7, No.8, pp.1280-1296 (2016). doi: 10.4236/cs.2016.78112.
3. **S. Maheswaran**, M. Ramya, P. Priyadharshini and P. Sivaranjani, " A Real Time Image Processing Based System to Scaring the Birds from the Agricultural Field", Indian Journal of Science and Technology, Vol. 9, No.(30), pp.1-5, (2016)Doi:10.17485/ijst/2016/v9i30/98999 , (2016).
4. **S. Maheswaran**, R. Asokan, R.P. Karthik and S. Sathesh, “Embedded System Based an Automatic Coconut Dehusker with Identification of Decay in Copra for Export Packaging”, International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 1, pp.592-601, (2016).
5. **Maheswaran Shanmugam** and Sathishkumar Ramasamy, “A Fruit Harvesting Device”, The Patent Office Journal 01/07/2016 pp.41356 (2016)
6. **Maheswaran Shanmugam**, Sunilvignesh Nehru and Sathesh Shanmugam, "A wearable embedded device for chronic low back patients to track lumbar spine position",Biomedical Research 2018; Special Issue :Special Section: Computational Life Sciences and Smarter Technological Advancement, Vol 2018, pp. S118-S123,(2018)
7. Mohana Priya S, **Maheswaran S**, “Hybrid Solar Lighting Distribution System for Indoor Horticulture ”, International Journal Of Science And Innovative Engineering & Technology, Vol.2018, No.2,(2018)
8. **S. Maheswaran**, P.G. Kuppasamy, S.M. Ramesh, T.V.P. Sundararajand, P. Yupapin,

"Refractive index sensor using dual core photonic crystal fiber – glucose detection applications", Results in Physics(Elsevier), Vol. 11,December 2018, pp. 577-578,(2018), DOI: <https://doi.org/10.1016/j.rinp.2018.09.055>

9. Kavin Kumar K, Meera Devi T, **Maheswaran S**, "An Efficient Method for Brain Tumor Detection Using Texture Features and SVM Classifier in MR Images", Asian Pacific Journal of Cancer Prevention, Vol.19,No.10, pp.2789-2794(2018) DOI:10.22034/APJCP.2018.19.10.2789
10. **S. Maheswaran**, Bikash Kumar Paul, Md. Abdul Khalek, Sujana Chakma, Kawsar Ahmed, M.S. Mani Rajane, "Design of tellurite glass based quasi photonic crystal fiber with high nonlinearity", Optik - International Journal for Light and Electron Optics(Elsevier), Vol.181, No.2019, pp.185–190(2019)DOI: <https://doi.org/10.1016/j.ijleo.2018.12.033>
11. **Maheswaran Shanmugam**, Karthik Ramasamy Palanisamy, Sunilvignesh Nehru and Sathesh Shanmugam, "Automatic Coconut Dehusking Machine With Identification Of Decay In Coconut", The Patent Office Journal No. 26/2019 Dated 28/06/2019 27077 (2019)
12. S Sathesh, **S Maheswaran**, M Gokulapriya, P Abinash, A Amutha, "Smart Turmeric Harvester", International Journal of Recent Technology and Engineering, Vol. 8, No. 4, pp.3593–3596 (2019). DOI:10.35940/ijrte.D7826.118419
13. VR Balaji, **S Maheswaran**, M Rajesh Babu, M Kowsigan, E Prabhu, K Venkatachalam, "Combining Statistical Models using Modified spectral subtraction method for embedded system", Microprocessors and Microsystems (Elsevier), Vol. 73,(2020).
14. Dr.G. Murugesan, **Dr.S. Maheswaran**, S. Selvapriya, V. Suganthan,S. Vinith,B, Vivek and S. Sathesh, "Discovery of Asteroids", Journal of Advanced Research in Dynamical and Control Systems, Vol. 12, No. 1, pp.301–307 (2020). DOI: 10.5373/JARDCS/V12I1/20201157.
15. **Maheswaran S**,Vivek B, Sivaranjani P, Sathesh S, Pon Vignesh K, "Development of Machine Learning Based Grain Classification and Sorting with Machine Vision Approach for Eco-Friendly Environment", Vol. 10, No. 3, pp.526–543 (2020).

S. No	Name of the Conference	Title of the Paper	International / National	Month and Year ISSN / ISBN / DOI / Page No	Co-Authors
2020-21					
1.	11th International Conference on Computing, Communication and Networking Technologies (ICCCNT-2020)	Unmanned Ground Vehicle for Surveillance	International	IIT-Kharagpur doi: 10.1109/ICCCNT49239.2020.9225313	Maheswaran S Murugesan G Prakash Duraishamy Vivek B Selvapriya S Vinith S Vasantharajan V
2019-20					

1.	9th International Conference on Advanced Science and Engineering Research – 2020 (ASER – 2020)	Design and Development of Grain Classification and Sorting Machine with Machine Vision Approach	International	Al-Ameen Engineering College Nanjai Uthukkuli (PO), Erode – 638 104 held on 28.03.2020	Sathesh S, Vivek B, Pon Vignesh K
2.	9th International Conference on Advanced Science and Engineering Research – 2020 (ASER – 2020)	An Autonomous Wheeled Robot System to Remove the Dust Congestion in Drip Irrigation	International	Al-Ameen Engineering College Nanjai Uthukkuli (PO), Erode – 638 104 held on 28.03.2020	Vivek B, Sathesh S, Pon Vignesh K

2018-19

1.	IEEE International Conference on Intelligent Computing and Communication for Smart World (I2C2SW)	Low Cost Raspberry Pi Oscilloscope	International	14th - 15th December 2018 Kongu Engineering College, Tamil Nadu, India	B Vivek, S Maheswaran, P Keerthana, S Sathesh
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2017-18

1.	International conference on Engineering and Advancement in Technology 2018 22nd and 23rd March 2018	Hybrid solar lighting distribution system for indoor Horticulture	International	22.3.18-23.3.18 PP.114, SRI Krishna College of Technology Kovaipudur, Coimbatore	Mohana Priya s
2.	International Conference on Intelligent Computing and Control 2017 I2C2	Identification of Artificially Ripened Fruits using Smart Phones	International	23.6.17- 24.6.17 pp.178-183 Karpagam Innovation Centre, Karpagam College of Engineering Coimbatore, India	Sathesh S Priyadharshini.P Vivek. B
3.	International Conference on Intelligent Computing and Control 2017 I2C2	Automated Coconut Tree Climber	International	23.6.17- 24.6.17 pp.184-189, Karpagam Innovation Centre, Karpagam College of Engineering Coimbatore, India	Sathesh S Saran G Vivek. B

2016-17

1.	India International Science Festival (IISF 2016), Young Scientists' Conclave Received Best hall Presentation Award	Autonomous Herbicide Spraying Machine to Reduce Usage of Chemicals in the Agriculture Field	International	7.12.16 to 11.12.16 pp.4 CSIR, National Physical Laboratory, NewDelhi	Sathesh S Sunil Vignesh N Karthik RP Priyadharshini.P
2.	India International Science Festival (IISF 2016), Young Scientists' Conclave	Automatic Coconut Dehusking Machine	International	7.12.16 to 11.12.16 Pp244-245. CSIR, National Physical Laboratory, NewDelhi	Karthik. RP Vivek. B Sathesh S Sunil Vignesh N
3.	India International Science Festival (IISF 2016), Young Scientists' Conclave	Wearable Device for Lumber Spine Position Tracker	International	7.12.16 to 11.12.16 pp.73-74 CSIR, National Physical Laboratory, NewDelhi	Karthik. RP Vivek. B Sathesh S Sunil Vignesh N Priyadharshini.P
2015-16					
1.	International Conference on Innovations in information, Embedded and Communication Systems (ICIIECS-2016)	A Real Time Image Processing Based System to Scaring the Birds from the Agricultural Field	International	17.3.16 & 18.3.16 ISBN:978-1-4673-8207-6 PP.21-25 Karpagam College of Engineering	Ramya. M Priyadharshini.P P. Sivaranjani
2.	International Conference on Sustainable Materials Design and Applications (ICSMDA 2016)	Smart Robot for Coconut Maturity Level Identification and Harvesting using Embedded Linux	International	18.3.16 & 19.3.16 Department of Mechatronics Kongu Engg College	S.Sathesh, P.Sivaranjani, B.Vivek P.Priyadharshini
3.	National Conference on VLSI, Embedded Systems, Signal Processing and Communication (VESCOM)-2016	Standalone and Web-based Data logger for safe transit of Delicate Cargo	National	2.4.2016 pp.84-87 Department of ECE Kongu Engineering College	Lavanya S.P