

FACULTY PUBLICATION DETAILS

LIST OF PUBLICATIONS

1. Haseena, S., S. Saroja, R. Madavan, **Alagar Karthick**, Bhaskar Pant, and Melkamu Kifetew. "Prediction of the Age and Gender Based on Human Face Images Based on Deep Learning Algorithm." Computational and Mathematical Methods in Medicine 2022 (2022).
2. Jasti, V., Guttikonda Kranthi Kumar, M. Sandeep Kumar, V. Maheshwari, Prabhu Jayagopal, Bhaskar Pant, **Alagar Karthick**, and M. Muhibbullah. "Relevant-based feature ranking (RBFR) method for text classification based on machine learning algorithm." Journal of Nanomaterials 2022 (2022).
3. **Sathish Kumar D**, Dinesh C, Hariharan U, Kamalakkumar S, "IoT Based Three Phase Power Monitoring and Failure Using SMS Alerts", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
4. **Kamalkumar V**, Abisheak K, Boobalan P, Laxman N, "IoT Based Health Monitoring System", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
5. **Pazhanimuthu C**. Shri hari A, Thurainithish M, Vishnujith M. "Pole Line Fault Detection System", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
6. **Lalitha B**, Aarthi K, Myvizhi S, Nandhini S, "Water Level Monitoring and Control System Using IoT", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
7. **Saravanan G**, Omesh Ram M, Rubavasan N, Sivanesan L, "Unmanned Solar Powered Paint Bot", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
8. **Vivekanandan S**, Ranjith Kumar S, Srinath R, Vinayak R "Smart Energy Efficient Home Automation Using Telegram" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
9. **Dinesh C**, Praveen Kumar V, Roshan Akthar A, Vijay Ganesh M, Yogeswaran Muralidharan "Gesture Controlled Mechanism of Robot Using Arduino" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
10. **Vignesh C.J**, Tamilarasan P, Thangavelu R, Venkatachalam K, "Environment Monitoring in Factories Using IoT for Employee Safety" Proceedings of the International Conference

- on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
11. **Sampathkumar R**, Saravanan J, Vishnu Varthan G, Rahul Adarsh F “Detection of Energy Theft and Fault in Transmission Lines, Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 12. **Mohamed Ibrahim A**, Pranav K P, Sandeep R, Sridhar V “Performance Assessment of Self Charging E-Cycle” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 13. **Kumar Chinnaiyan V**, Naveen A, RamPrashad K M, Sharook R “Security System for Reducing Medical Issues and Drug Interaction With EHR System” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for
 14. **Balamurugan K**, Janani T, Keerthana R, Reshma SJ “Wireless Charger For Electric Vehicles” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 15. **Praveena P**, Sharanya K K, Srinithi S, Suvatha B “IoT Based Solar-Powered Smart Waste Disposal System” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 16. **Pazhanimuthu C**, Pandia Raja Prabhu T, Praveen Guru M, Suresh S, “IOT based Smart Surveillance and Control of Street Light System” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 17. **Vivekanandan S**, Gokul M, Kiruthic P, Mukesh Kannan R “Enhanced Cluster Based Link State Secure Routing Algorithm in Flying Ad Hoc Networks, Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 18. **Dinesh C**, Jayasreedhar N, Lankesh P, Mugilan S, Karthikeyan S “AI Based Smart Assistant System for Drowsiness Driver” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 19. **Chandrika VS**, Praveen Balaji, Sakthi Ganesh D, Yaswin Krishna N, “A Li-Fi Based Wireless Optical Networking System for Distress Alarming In Fisherman Boats” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 20. **Ravindran S**, Manikandan S, Navaneethan N, Gnanadesikan S “Ultrasonic Aided Voice Based Smart Stick” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
 21. **Sathish Kumar D**, Venkateswaran R, Vignesh K, Vishnu S “Smart Walking Device Using IoT” Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India

22. **Saravanan G**, Naveen A, Kathir Vignesh S, Ragipindi Anand Kumar Reddy, "Sequential Automation Process Using Microcontroller" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
23. **Ravikumar P**, Shapthika Edward, Sowmiya S, Vinothini G "IoT Based Smart Monitoring System for Fish Pond" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
24. **Vignesh CJ**, Manoj K, Kavin Kumar A, Kavin KB, "IoT Based Power Loom Monitoring System" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
25. **Mohamed Ibrahim A**, Mohamed Harish M, James I, Boopathi G "Design of Solar Powered E-Cycle" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
26. **Baranilingesan I**, Kathirodhayan V, Hariharan P, "Design and Implementation of An IoT Based Home Automation Framework" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
27. **Lalitha B**, Darsini K, Aishwaryaa, "Campus Wide Water Management System", Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India
28. **Kamalkumar V**, Sonali S, Sindhuja V, Sriharish," LIDAR Based Self Driving Car" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India.
29. **Sampathkumar R**, Ashok S, Balakarthish V, Surya T, "A Comparative Analysis of FACTS Devices for Power Quality Improvement" Proceedings of the International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication, ITSPWC 2022, 14-15 May 2022, Karur, Tamilnadu, India.
30. Kamalapur, Geeta, T. Vijay Muni, Pandala Rathnakar Kumar, V. **Parimala, K.** Venkata Kishore, and M. S. Aspalli. "A Novel Neuro Fuzzy Method DTC of Induction Motor Drive for Efficient Torque Response." In 2022 3rd International Conference for Emerging Technology (INCET), pp. 1-7. IEEE, 2022.
31. Babu, J. Chinna, M. Sandeep Kumar, Prabhu Jayagopal, V. E. Sathishkumar, Sukumar Rajendran, Sanjeev Kumar, **Alagar Karthick**, and Akter Meem Mahseena. "IoT-based intelligent system for internal crack detection in building blocks", Journal of Nanomaterials 2022 (2022).
32. Mohanraj, N., N. Mathan Kumar, P. Prathap, P. Ganeshan, K. Raja, V. Mohanavel, **Alagar Karthick**, and M. Muhibbullah. "Mechanical Properties and Electrical Resistivity of the Friction Stir Spot-Welded Dissimilar Al-Cu Joints." International Journal of Polymer Science 2022 (2022).
33. Sebastin, S., M. Franchis David, **Alagar Karthick**, Ashita Singh, J. Vanjinathan, Sanjeev Kumar, and Mahseena Akter Meem. "Investigation on mechanical and durability

- performance of reinforced concrete containing red soil as alternate for M-sand." *Journal of Nanomaterials* 2022 (2022).
34. Remya, R. R., Antony V. Samrot, S. Suresh Kumar, V. Mohanavel, **Alagar Karthick**, V. Kumar Chinnaiyan, Dhamodharan Umapathy, and M. Muhibbullah. "Bioactive Potential of Brown Algae." *Adsorption Science & Technology* 2022 (2022).
 35. **Revathi, R.**, M. Karthikeyan, N. Senthilnathan, V. Kumar Chinnaiyan, J. Sevugan Rajesh, and K. Lokesh. "Machine Learning Based Smart Energy Management for Residential Application in Grid Connected System." In *2022 First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)*, pp. 1-6. IEEE, 2022.
 36. **Chandrika, V. S.**, Marthanda, A. V. G. A., Karthigaivel, K., Priya, K. S., & Venkatesh, C. (2022, March). Chopping Down on Industry 4.0 using Automatic Power Factor Correction Units to Boost Power Performance. In *2022 International Conference on Electronics and Renewable Systems (ICEARS)* (pp. 662-665). IEEE.
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 38. Nanmaran, R., S. Srimathi, G. Yamuna, S. Thanigaivel, A. S. Vickram, A. K. Priya, **Alagar Karthick, J. Karpagam**, V. Mohanavel, and M. Muhibbullah. "Investigating the role of image fusion in brain tumor classification models based on machine learning algorithm for personalized medicine." *Computational and Mathematical Methods in Medicine* 2022 (2022).
 39. Rajasekar, P., M. Rama prasad Reddy, Karanam Deepak, K. Balamurugan, S. Amudha, and **C. J. Vignesh**. "A 2.86-TOPS/W CMCB based Edge ML and RO-PUF engine for IoT based nano-electronic material applications." *Materials Today: Proceedings* (2022).
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 41. Nanmaran, R., S. Srimathi, G. Yamuna, S. Thanigaivel, A. S. Vickram, A. K. Priya, **Alagar Karthick, J. Karpagam**, V. Mohanavel, and M. Muhibbullah. "Investigating the Role of Image Fusion in Brain Tumor Classification Models Based on Machine Learning Algorithm for Personalized Medicine." *Computational and Mathematical Methods in Medicine* 2022 (2022).
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 43. **Uthirasamy, R., V. Kumar Chinnaiyan**, S. Vishnukumar, **Alagar Karthick, V. Mohanavel**, Umashankar Subramaniam, and M. Muhibbullah. "Design of Boosted Multilevel DC-DC Converter for Solar Photovoltaic System." *International Journal of Photoenergy* 2022 (2022).
 44. Rangaraj, R., S. Sathish, T. L. D. Mansadevi, R. Supriya, Raviteja Surakasi, M. Aravindh, **Alagar Karthick** et al. "Investigation of Weight Fraction and Alkaline Treatment on Catechu Linnaeus/Hibiscus cannabinus/Sansevieria Ehrenbergii Plant Fibers-Reinforced Epoxy Hybrid Composites." *Advances in Materials Science and Engineering* 2022 (2022).
 45. Elango, K. S., B. Prabu, S. Sathish, **Alagar Karthick, V. Sampathkumar**, Sanjeev Kumar, V. Mohanavel, M. Ravichandran, M. Muhibbullah, and Sameh M. Osman. "Mechanical and

- Durability Studies on Ficus exasperata Leaf Ash Concrete." *Advances in Civil Engineering* 2022 (2022).
46. Kumar, R. Ranjith, S. Thanigaivel, A. K. Priya, **Alagar Karthick**, Chandrabhanu Malla, P. Jayaraman, M. Muhibbullah, Razan A. Alshgari, and Abdunnasser Mahmoud Karami. "Fabrication of MnO₂ Nanocomposite on GO Functionalized with Advanced Electrode Material for Supercapacitors." *Journal of Nanomaterials* 2022 (2022).
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- characteristics of pineapple/sisal/TiO₂ filler incorporation." *Journal of Industrial Textiles* (2021): 15280837211022614.
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 70. Raja, Thandavamoorthy, Vinayagam Mohanavel, Thanikodi Sathish, Sinouvassane Djearamane, Palanivel Velmurugan, **Alagar Karthick**, Omaima Nasif et al. "Thermal and Flame Retardant Behavior of Neem and Banyan Fibers When Reinforced with a Bran Particulate Epoxy Hybrid Composite." *Polymers* 13, no. 22 (2021): 3859.
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