

Research Publications:

- S Syed Rafiammal, **D Najumnissa Jamal**, S Kaja Mohideen, Reconfigurable Hardware Design for Automatic Epilepsy Seizure Detection using EEG Signals, Engineering, Technology & Applied Science Research, **2020**, vol 10, issue 3, pp 5803-5807 (**web of science**)
- Nabeena Ameen, **D. Najumnissa Jamal**, L.Arun Raj, Optimized Dual Path Analysis Using Finite Automata Theory in Wireless Sensor Networks, International Journal of Intelligent Unmanned Systems, DOI: 10.1108/IJIUS-11-2019-0060, ISSN 2049 – 6427.**May 2020.SCI – Impact factor 1.17**
- **Najumnissa.D**, Murshitha Shajahan M.S., Mohammed Salman. J, Design of angle measuring device for Synovial Joint Applications, GEDRAG & ORGANISATIE Review, volume 33, issue 2, **June 2020**, eISSN0921-5077 /1875-7235 (**Web of Science**)
- Nabeena Ameen, **D. Najumnissa**, L. Arun Raj., “Optimized Routing Protocols for Data Monitoring in Wireless Sensor Network”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, **September 2019**, pp. 204-214., DOI:10.35940/ijrte.C3934.098319. (**Scopus indexed up to 2019**)
- **MurshithaShajahan M.S., Najumnissa D.**, Aparna V., “Controller design using quantitative feedback theory for thermal power plant process”, Case Studies in Thermal Engineering, Elsevier Publications, Vol 14, 2019, available online 5th April 2019, **SJR – 1.15, IF- 1.899** <https://doi.org/10.1016/j.csite.2019.100441>
- **Mohammed Asith N, Mohamed Thawfiq S, Pavan Kumar V, Aadhirai.S, Najumnissa Jamal D.**, “Ultrasound Renal Abnormalities detection using ANN and Scale Invariant feature Transform”, International Journal of Science, Engineering and Management (IJSEM), Vol 4, Issue 10, October 2019, ISSN (Online) 2456 -1304. **Google Scholar indexed**
- S. Syed Rafiammal, **D. Najumnissa**, G. Anuradha, S. Kaja Mohideen, **P. K. Jawahar**, Syed Abdul Mutalib, “A Low Power and High Performance Hardware Design for Automatic Epilepsy Seizure Detection”, INTL Journal Of Electronics and Telecommunications, 2019, Vol. 65, No. 4, pp. 707-712 DOI: 10.24425/ijet.2019.130254. **SJR- 0.79**
- Nabeena Ameen, **D. Najumnissa**, L. Arun Raj., “Comparative analysis of energy based optimized dynamic source multipath routing protocol in WSNs”, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 16, No. 1, October 2019, pp. 441~455., DoI: 10.11591/ijeecs.v16.i1. pp441-455 ISSN: 2502-4752 **SJR- 0.36**
- **Lakshmanaprabu S.K. Najumnissa Jamal D** , Multiloop FOPID Controller Design for TITO Process Using Evolutionary Algorithm, International Journal of Energy Optimization and Engineering (IJEEO) 8 (3), DOI: 10.4018/IJEEO.2019070107 (**Web of science indexed Journal.**) **Clarivate analytics indexed.2019**
- Murshitha Shajahan M.S., Najumnissa D., Aparna V., M.K.A. Ahamed Khan, “Control of electric power generation of thermal power plant in TamilNadu”, Case Studies in Thermal Engineering, Elsevier Publications, Vol 12, September 2018, pp 728-735, <https://doi.org/10.1016/j.csite.2018.08.008> (SNIP 1.899, SJR0.991)
- Pushpa,B and Najumnissa Jamal D, P/ EIE , “Correlation Analysis and Modeling of EEG – EMG Signal for Startle-Induced Seizures”, at the Online Journal of Biological Sciences, December, 2017
- S.K.Lakshmanaprabu and D.Najumnissa Jamal, P/ EIE , “Bat Algorithm Based Parameter Identification of Second Order system using step response”, at the International Journal of Pure and Applied Mathematics, Vol 117, No 15 , 1031 – 1042, December, 2017
- **D.Najumnissa** , Pushpa, and Syed Rafiammal” Feature Selection and Detection of Epileptic Seizure EEG Signals using EMD and PSO,” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.59 (2015) © Research India Publications;<http://ripublication.com/Volume/ijaerv10n59spl.htm> (**SJR : 0.13**)

- Mangayarkarasi and **D.Najumnissa Jamal**, “Development of Patient Assistive Tool for Detection of Abnormalities in Kidney,” Indian Journal of Science and Technology, Vol 8(24), IPL0324, September 2015, ISSN (Print) : 0974-6846
- **D. Najumnissa** and T.R.Rangaswamy, “Comparison of Intelligent Computing Techniques for Classification of Clinical EEG signals, European Journal for Biomedical Informatics, in the special Issue on Applications of computational techniques in Infectious diseases and clinical research, EJBI 2013, ISSN 1801-5603, Volume 9, Issue 2, 2013 on 30.8.13
- S.Shahul Hamid, **D.Najumnissa Jamal** and M.S. Murshitha Shajahan, “Automatic Detection and Analysis of Boiler Tube Leakage System, International Journal of Computer Applications (0975 – 8887), Volume 87, No.16, pp. 19-23, December, 2013. ISBN : 973-93-80879-36-7
- **D. Najumnissa** and T.R.Rangaswamy, “Detection and Classification of Epileptic Seizures using Wavelet feature extraction and Adaptive Neuro-Fuzzy Inference System”, International Journal of Computational Engineering and Research(IJCER), May-June 2012 , Vol. 2 , Issue No.3 , pp 755-761
- **D. Najumnissa** and S. Shenbagadevi, “An approach to Automated Classification of Epileptic Seizures using Artificial Neural Network”, Int. J. Biomedical Engineering and Technology , Vol. 2, No. 4, 2009, pp 382-399. <https://doi.org/10.1504/IJBET.2009.027801>
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- Najumnissa D, Mohammed Asith N, Syed Rafiammal, Analysis of Stuttered speech using MFCC and Naive Bayes Classifier, 3rd International Conference on Recent Trends In Science And Technology, organized by GKM College of Engineering & Technology and TECHOWN, 6th May 2020.
- Najumnissa Jamal. D., Murshitha Shajahan M.S., Norman Cruz. S, Abhinesh jayram M and Goutham S “Empirical Investigation and comparison of different viscosity liquids with increasing temperature“ IEEE International Conference on Emerging Trends in Information Technology and Engineering ic-ETITE”20 during 24 – 25th February 2020, organised by School of Information Technology and Engineering, VIT, Vellore – 632014
- Mohammed Asith N, Mohamed Thawfiq S, Pavan Kumar V, Aadhirai.S, Najumnissa Jamal D., “Ultrasound Renal Abnormalities detection usingA NN and Scale Invariant feature Transform”, 2nd International Conference on Latest Trends in Engineering and Management on 20.10.19 and 21.10.19, held at Pondicherry, organized by IFERP
- Abdul Qayyum, M.K.A.Ahamed Khan, Moona Mazher, M Suresh, D Najumnissa Jamal, John Tran Duc Chung, “Convolutional Neural Network Approach for Estimating Physiological States Involving Face Analytics,” 2019 IEEE International Conference on Automatic Control and Intelligent Systems (I2CACIS 2019), 29 June 2019, Selangor, Malaysia
- Norman Cruz S, Mohamed Ashiq N, Pavan Kumar V, Shahul Hamid S, Najumnissa D, Murshitha Shajahan M S , Advanced Dust Separation System In Coal Handling Plant In Thermal Power Station, Second International Conference on Recent Trends in Science and Technology, ICRTST – 2019, held on 20.3.19, organized by GKM College of Engineering & Technology & TECHOWN, 9788-1-9322-1327.
- Najumnissa D, Mohamed Syed Ali J, Mohamed Uzaer. A, Mohamed Asith N, Yaasir Ahamed M S, Analysis of The Effect of Different Music on Students Using ECG Signals, Second International Conference on Recent Trends in Science and Technology, ICRTST – 2019, held on 20.3.19, organized by GKM College of Engineering & Technology & TECHOWN, 9788-1-9322-1327.

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- Mohamed Raiyan M, Thahiranazreen. S, Varshan V , Mohamed Ashik J, Najumnissa D , Murshitha Shajahan M.S, Shahul Hamid S.,” Acquisition of Data From a Prototype Boiler Tube Leakage System and Analysis using ANN and Naïve Bayes, Second International Conference on Recent Trends in Science and Technology, ICRTST – 2019, held on 20.3.19, organized by GKM College of Engineering & Technology & TECHOWN, 9788-1-9322-1327.
- Najumnissa D, Mohamed Syed Ali J, Analysis on the Effect of ECG Signals While Listening to Different Genres of Music, Second International Conference on Advanced Computational and Communication Paradigms (ICACCP) , Sikkim Manipal Institute of Technology (SMIT), Sikkim, during 25.2.18 and 28.2.18, 978-1-5386-7989-0/19/\$31.00 ©2019 IEEE
- Mohamed Syed Ali.J, Abinesh Jayaram, Gautham S, Murshitha Shajahan M.S., Najumnissa D., Automation of Battery Testing Process Using Programmable Logic Controller, Proceedings of the International Conference on Recent Trends in Multi-Disciplinary Research, ICRTMDR -18, jointly organized by APC Mahalaxmi College for women, Tutucorin, and IFERP during 20.12.18 and 21.12.18, ISBN:978-81-939399-6-6, 2018, pp 97.
- Mohamed Hussain K, Aparna V, M. S. Murshitha Shajahan, D. Najumnissa Jamal, “Tuning of PID Controller using GA, SA and QFT for Three Interacting Tank Process”, Proceedings of the 2nd International Conference on Trends in Electronics and Informatics (ICOEI 2018), IEEE Conference Record: # 42666; IEEE Xplore ISBN:978-1-5386-3570-4, 2018, pp 547 – 551
- Aparna V, Mohamed Hussain K, D. Najumnissa Jamal, M. S. Murshitha Shajahan, “Implementation of Gain Scheduling Multiloop PI Controller Using Optimization Algorithms for a Dual Interacting Conical Tank Process,” Proceedings of the 2nd International Conference on Trends in Electronics and Informatics (ICOEI 2018), IEEE Conference Record: # 42666; IEEE Xplore ISBN:978-1-5386-3570-4, 2018, pp 599 – 604
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- Pushpa,B and Najumnissa D ,”Analysis of startle type epileptic seizures using empirical mode decomposition and machine learning technique,” Proceedings of the International Conference on Computational Science and its applications, (ICCSA-2018), Sri Ramasamy Naidu Memorial College, Sattur on 16.3.18
- Anuradha G, Najumnissa D , Syed Rafiammal, ,”Detection of Dementia in EEG Signal using Dominant Frequency Analysis, at the IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (IEEE-ICPSI-2017), organized by Saveetha Engineering College during 21st and 22nd September 2017, pp125 – 129.
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- **Najumnissa. D**, Mohammed Khalid S.J, Pushpa. B, Arunkumar. S, “Design of Heart rate Data Acquisition system with mobile alert on emergent data using Labview,” International Conference on Modern Applications in Engineering & Technology – 2017 (IER-MAET’17), March 2017.<http://ijarmet.vtpree.com/special-issue-march-2017>
- **Najumnissa. D**, Salman Farci.k, Aashirai.S., Mohamed Kassim.H., “Development of an EEG Amplifier for a Brain-computer-interface,” International Conference on Modern Applications in Engineering & Technology – 2017 (IER-MAET’17), March 2017. <http://ijarmet.vtpree.com/special-issue-march-2017>

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