LIST of PUBLICATIONS

Dr. S. VIVEKANANDAN, M. E., Ph. D.

National / International Conference

1. Hsu, C.-H., Manogaran, G., Parthasarathy, P., **Vivekanandan, S**, " A new approach for prediction of lung carcinoma using back propagation neural network with decision tree classifiers" Proceedings - 8th IEEE International Symposium on Cloud and Services Computing, SC2 2018

2. AA Basha, **S. Vivekanandan**, "Optimal Control Identification of IMC and PID Controllers for Insulin Infusion," IEEE proceedings 2017 International Conference on Current Trends in Computer, Electrical, Electronics and Communication (CTCEEC), pp. 679-682, Sep 2018. DOI:10.1109/CTCEEC.2017.8455070

3. Nischay. G, Shihab. M, **S. Vivekanandan**, "Low cost human interface device to conduct electromyogram" Proceedings in International conference on futuristic Engineering, Science and Technology" Chennai, May 2016.

4. **Vivekanandan. S**, DS Emmanuel, Lokesh Kumar. C, Devanand. M, "Human-Computer Interface of low cost abductor digiti minimi Monitoring System using sEMG" Proceeding in International Conference on Biomedical Engineering & Technology, Malaysia, March 2014 (Elsevier).

5. **Vivekanandan. S**, Trisha Chandra, Radha Mehta, Ganesh. R, "Modeling of Blood Vessel for Diabetic Disorder and its Cogent Analysis" Proceedings in International Conference on Advances in Electrical Engineering (ICAEE 2014), VIT University Vellore, Jan. 2014. (IEEE)

6. **Vivekanandan. S**, Abhinav. Koleti, Devanand. M, "Autonomous Industrial Hazard Monitoring Robot with GSM Integration. Proceedings in international conference on Engineering (NUICONE 2013), Nirma Univeristy Ahmadabad, Nov. 2013. (IEEE)

National/ International Journals

1. Parthasarathy, P., & **Vivekanandan, S.** (2018). A comprehensive review on thin film-based nano-biosensor for uric acid determination: arthritis diagnosis. **World Review of Science, Technology and Sustainable Development**, 14(1), 52-71. DOI: https://doi.org/10.1504/WRSTSD.2018.092824

2. Parthasarathy, P., & **Vivekanandan, S.** (2018). A numerical modelling of an amperometric-enzymatic based uric acid biosensor for GOUT arthritis diseases. **Informatics in Medicine Unlocked**, 12, 143-147.
DOI: https://doi.org/10.1016/j.imu.2018.03.001

3. Parthasarathy, P., & **Vivekanandan, S.** (2018). Investigation on uric acid biosensor model for enzyme layer thickness for the application of arthritis disease diagnosis. **Health information science and systems**, 6, 1-6.
DOI: https://doi.org/10.1007/s13755-018-0043-3

4. Parthasarathy, P. **Vivekanandan, S.** (2018). A typical IoT architecture-based regular monitoring of arthritis disease using time wrapping algorithm. **International Journal of Computers and Applications**, vol. 7, issue 1, pp. 1-11.
DOI: https://doi.org/10.1080/1206212X.2018.1457471

5. Parthasarathy, P., & **Vivekanandan, S.** (2018). Urate crystal deposition, prevention and various diagnosis techniques of GOUT arthritis disease: a comprehensive review. **Health information science and systems**, 6(1), 19.
DOI: https://doi.org/10.1007/s13755-018-0058-9

6. Panchatcharam, P., & **Vivekanandan, S.** (2019). Internet of Things (IOT) in Healthcare–Smart Health and Surveillance, Architectures, Security Analysis and Data Transfer: A Review. **International Journal of Software Innovation (IJSI)**, 7(2), 21-40. DOI: 10.4018/IJSI.2019040103

7. Parthasarathy, P., & **Vivekanandan, S.** Modelling and identification of suitable matrix for uric acid biosensor for arthritis disease diagnosis using COMSOL Multiphysics. **Bio-medical Research.** (Allied Academics) – Accepted

8. Shakila Basheer, Parthasarathy P, **S Vivekanandan** & G Usha Devi, Internet of things based automated shopping cart incorporated with Virtual Instrumentation using LabVIEW for control applications**. International journal of grid and utility computing.** (Inderscience) – Accepted, final material in progress

9. Varadharajan, R., Priyan, M. K., Panchatcharam, P., **Vivekanandan, S.,** & Gunasekaran, M. (2018). A new approach for prediction of lung carcinoma using back propagation neural network with decision tree classifiers. **Journal of Ambient Intelligence and Humanized Computing,** 1-12.
DOI: https://doi.org/10.1007/s12652-018-1066-y

10. Basha, A. A., **Vivekanandan, S.,** & Parthasarathy, P. (2019). Blood Glucose Regulation for Post-Operative Patients with Diabetics and Hypertension Continuum: A Cascade Control-Based Approach. **Journal of medical systems,** 43(4), 95.
DOI: 10.1007/s10916-019-1224-6

11. Basha, A. A., **Vivekanandan, S.,** & Parthasarathy, P. (2018). Evolution of blood pressure control identification in lieu of post-surgery diabetic patients: a review. **Health information science and systems**, 6(1), 17. DOI: 10.1007/s13755-018-0055

12. AA Basha, **S. Vivekanandan**, (2018). Model Based Control For Insulin Infusion System In Postoperative Diabetic Patients–A Novel Approach,**" International Journal of Pure and Applied Mathematics** , Volume 119 No. 14 , 1521-1527

13. Basha, A. A., & **Vivekanandan, S.** (2017). Evolution of Diabetic Control Identification in Lieu of Continuous Glucose Monitoring Technology-A Review. **International Journal of Applied Engineering Research**, 12(16), 6102-6107.

14. Sadish kumar, Nehru. K, **S. Vivekanandan**, (2016) Navneet. A, Nishant. B, "A Stand-Alone EEG Monitoring System for Remote Diagnosis" **Telemedicine and e-Health**, Vol. 22, No. 4, pp. 1-7

15. **S. Vivekanandan,** Sehaj .S**,** (2016) **"**Image processing and neural network techniques in assisting of early detection of oral cancer – a Novel method" **International Journal of Current Research,** Vol. 8, Issue, 04, pp.29494-29499

16. **S. Vivekanandan** and M. Devanand, (2015) "Remote monitoring for diabetes disorder: Pilot study using InDiaTel prototype", **European Research in Telemedicine**, Vol.4, pp. 63-69

17. Navneet. A and **S. Vivekanandan**, (2015) "EEG Based Hospital Automation and Monitoring System For Locked-In Syndrome Patients", **International Journal of Applied Engineering Research**, Vol. 10, No.9, pp. 22685-22690. ISSN 1087—1090. (Scopus)

18. **S. Vivekanandan**, M. Devanand, P.V Amruth and Vasudev Kumar, (2015) "NIR Spectroscopy Based Blood Glucose Range Estimation Using Decision Tree Algorithm With Cogent Analysis", **International Journal of Applied Engineering Research**, Vol. 10, No.1, pp. 1411-1420. ISSN 1087—1090. (Scopus)

19. **Vivekanandan. S**, DS Emmanuel, Lokesh Kumar. C, Devanand. M, (2015) "Human-Computer Interface of low cost abductor digitiminimi Monitoring System using sEMG" **International Journal of pharma medicine and Biological sciences**, Vol. 4 No. 2 (Scopus).

20. **S. Vivekanandan**, D.S. Emmanuel Aastha Kapoor and Aparna G Unni (2014) " Classification of Myoelectric Signals to Diagnose Hansen's Disease", **The Journal of Technology**, Vol. 6, pp. 404-415. (Scopus)

21. **S. Vivekanandan**, D.S. Emmanuel and R. Ganesh, (2014) "Quantification of Myosignal parameters in HD Patients", **Research Journal of Applied Sciences, Engineering and Technology,** Vol. 7, No.16, pp. 885-894. (Scopus)

22. **S. Vivekanandan**, D.S. Emmanuel and R. Ganesh, (2013) "Agewise Parametric Classification of Myoelectric signals", **International Journal of Applied Engineering Research***,* Vol. 8, No.8, pp. 885-894. ISSN 1087—1090. (Scopus)

23. **S. Vivekanandan**, Aastha Kapoor, (2013) "Modelling of Femur bone to diagnose osteoporosis using COMSOL Multiphysics 4.0a", **European Journal of Scientific Research***,* Vol.103, No.4, pp. 581-587. ISSN 1450-216X. (Scopus)

24. **S. Vivekanandan**, D.S. Emmanuel and Richa Kumari, (2013) " Propagation of action potential for Hansen's disease affected nerve model using Fitzhugh Nagumo model like excitation", **Journal of Theoretical and Applied Information Technology,** Vol.49, No.2, pp. 550-553. ISSN 1992-8645. (Scopus)