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List of Publications (Last Five Years):

1. Mathew, A. A., Chandrasekhar, A., & **Vivekanandan, S**. (2020). A Review on Real-Time Implantable and Wearable Health Monitoring Sensors based on Triboelectric Nanogenerator Approach. *Nano Energy*, 105566.
2. Parthasarathy, P., & **Vivekanandan, S**. (2020). Biocompatible TiO2-CeO2 Nano-composite synthesis, characterization and analysis on electrochemical performance for uric acid determination. *Ain Shams Engineering Journal*, *11*(3), 777-785.
3. Basha, A. A., & **Vivekanandan, S**. (2020). A fuzzy-based adaptive multi-input–output scheme in lieu of diabetic and hypertension management for post-operative patients: an human–machine interface approach with its continuum. *NEURAL COMPUTING & APPLICATIONS*.
4. Parthasarathy, P., & **Vivekanandan, S**. (2020). A typical IoT architecture-based regular monitoring of arthritis disease using time wrapping algorithm. *International Journal of Computers and Applications*, *42*(3), 222-232.
5. Vijayarajeswari, R., Parthasarathy, P., **Vivekanandan, S**., & Basha, A. A. (2019). Classification of mammogram for early detection of breast cancer using SVM classifier and Hough transform. *Measurement*, *146*, 800-805.
6. Basha, A. A., & **Vivekanandan, S**. (2019). Enhanced Optimal Insulin Regulation in Post-Operative Diabetic Patients: An Adaptive Cascade Control Compensation-Based Approach With Diabetic and Hypertension. *IEEE Access*, *7*, 90973-90981.
7. 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.
8. 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.
9. Basha, A., Parthasarathy, P., & **Vivekanandan, S**. (2019, March). Detection of Suspicious Human Activity based on CNN-DBNN Algorithm for Video Surveillance Applications. In *2019 Innovations in Power and Advanced Computing Technologies (i-PACT)* (Vol. 1, pp. 1-7). IEEE.
10. Parthasarathy, P., & **Vivekanandan, S**. (2019, March). Structural, optical and electrochemical response studies of TiO 2–ZrO 2 nanocomposite for uric acid detection. In *2019 Innovations in Power and Advanced Computing Technologies (i-PACT)* (Vol. 1, pp. 1-6). IEEE.

11. Parthasarathy, P., & **Vivekanandan, S**. (2019). A numerical modelling of an amperometric-enzymatic based uric acid biosensor for GOUT arthritis diseases. *Informatics in Medicine Unlocked*, *16*, 100233.
12. 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.
13. 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.
14. 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), 5.
15. Hsu, C. H., Manogaran, G., Panchatcharam, P., & **Vivekanandan, S**. (2018, November). A New Approach for Prediction of Lung Carcinoma Using Back Propagation Neural Network with Decision Tree Classifiers. In *2018 IEEE 8th International Symposium on Cloud and Service Computing (SC2)* (pp. 111-115). IEEE.
16. Varadharajan, R., Priyan, M. K., Panchatcharam, P., **Vivekanandan, S**., & Gunasekaran, M. (2018). A new approach for prediction of lung carcinoma using back propogation neural network with decision tree classifiers. *Journal of Ambient Intelligence and Humanized Computing*, 1-12.
17. Basha, A. A., & **Vivekanandan, S**. (2018). Model based control for insulin infusion system in postoperative diabetic patients–a novel approach. *Int. J. Pure Appl. Math*, *119*(14), 1521-1527.
18. 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.
19. 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.
20. Basha, A. A., & **Vivekanandan, S**. (2017, September). Optimal control identification of IMC and PID controllers for insulin infusion. In *2017 International Conference on Current Trends in Computer, Electrical, Electronics and Communication (CTCEEC)* (pp. 679-682). IEEE.
21. Basha, A., & **Vivekanandan, S.** (2017). Evolution of diabetic control identification in lieu of continuous glucose monitoring technology-A Review. *Int. J. Appl. Eng. Res*, *12*(16), 6102-6107.
22. Thangavelu, S. K., Kasthuri, N., **Sundaram, V**., Aravind, N., & Bilakanti, N. (2016). A Stand-Alone EEG Monitoring System for Remote Diagnosis. *Telemedicine and e-Health*, *22*(4), 310-316.

23. **Vivekanandan, S**., & Devanand, M. (2015). Remote monitoring for diabetes disorder: Pilot study using InDiaTel prototype. *European Research in Telemedicine/La Recherche Européenne en Télémédecine*, *4*(2), 63-69.
24. **Vivekanandan, S**., Kumar, L. C., Devanand, M., & Emmanuel, D. S. (2015). Human-Computer Interface of Low-Cost Abductor Digiti Minimi Monitoring System Using sEMG. *International Journal of Pharma Medicine and Biological Sciences*, *4*(2), 128.