List of Publications

Google Scholar: Tirthankar Paul, Scopus ID: 57204780717

A. Peer-Reviewed Scientific Articles

Under Review

1. Analysis of DNA Sequences from the Human Sweat and Comparison with Blood Samples is in *BMC Medical Genomics.*

Journal Articles:

1. **T. Paul**, S. Vainio, and J. Roning, "Detection of Intra-family Coronavirus Genome Sequences Through Graphical Representation and Artificial Neural Network", *Expert Syst. Appl.*, vol. 194, no. December 2021, p. 116559, 2022, doi: 10.1016/j.eswa.2022.116559. `https://doi.org/10.1016/j.eswa.2022.116559` [**I.F. 8.5 & Jufo 2**]

2. **T. Paul**, S. Vainio, and J. Roning, "Clustering and classification of virus sequence through music communication protocol and wavelet transform," *Genomics*, vol. 113, no. 1P2, pp. 778–784, 2020, doi: 10.1016/j.ygeno.2020.10.009. `https://doi.org/10.1016/j.ygeno.2020.10.009` [**I.F. 4.4 & Jufo 1**]

Conference Papers:

1. **T. Paul**, S. Vainio, and J. Roning, "Haar wavelet based approach for Short Tandem Repeats (STR) Detection," 2019 *IEEE 19th Int. Symp. Signal Process. Inf. Technol.* ISSPIT 2019, pp. 1–6, 2019, doi: 10.1109/ISSPIT47144.2019.9001825. `https://ieeexplore.ieee.org/abstract/document/9001825`

2. **T. Paul**, S. Vainio, and J. Roning, "Towards personalised, DNA signature derived music via the short tandem repeats (STR)," in *Advances in Intelligent Systems and Computing*, 2019, vol. 857, pp. 951–964. doi: 10.1007/978-3-030-01177-2-69. `https://link.springer.com/chapter/10.1007/978-3-030-01177-2_69` [**Jufo 1**]

Publications: Beyond the Thesis

1. Yangmei Yu, Priyadharshini Perumal, Ian J. Corfe, **Tirthankar Paul**, Mirja Illikainen, Tero Luukkonen, "Combined granulation–alkali activation-direct foaming process: A novel route to porous geopolymer granules with enhanced adsorption properties," *Materials & Design*, Volume 227, 2023, 111781, ISSN 0264-1275, `https://doi.org/10.1016/j.matdes.2023.111781` [**I.F. 8.4 & Jufo 3**]

2. Amith K. Belman, **Tirthankar Paul**, Li Wang, S. S. Iyengar, Paweł Śniatała, Zhanpeng Jin, Vir V. Phoha, Seppo Vainio, Juha Roning "Authentication by Mapping Keystrokes to Music: The Melody of Typing," 2020 International Conference on Artificial Intelligence and Signal Processing (AISP), Amaravati, India, 2020, pp. 1-6, doi: 10.1109/AISP48273.2020.9073125. `https://ieeexplore.ieee.org/document/9073125`

3. P. Perumal, **T. Paul**, T. Luukkonen, J. Röning, P. Kinnunen and M. Illikainen, Performance of Fibre-Reinforced Slag-Based Alkali Activated Mortar in Acidic Environment, in: Current Topics and Trends on Durability of Building Materials and Components, Serrat, C., Casas, J.R. and Gibert, V. (Eds). `https://www.scipedia.com/public/Perumal_et_al_2020a`

Publications (2011 to 2013): Related to the Master's Study

1. **T.Paul**, P.Karmakar, S.Dhar,"Comparative Study of Channel Estimation Algorithms under Different Channel Scenario", International Journal of Computer Applications, Volume.34, Number.7,2011, doi: 10.5120/4113-5927, ISSN: 0975 - 8887.

2. **T. Paul**, P. Karmakar, T. Paul, "Performances of Kalman filter and LMS Algorithm in Channel Estimation," *International Journal of Engineering Research & Technology*, Vol. 1 Issue 5, July 2012, ISSN: 2278-0181.

3. P. Karmakar, B. Roy, **T. Paul**, S. Manna, "Target Classification: An application of Artificial Neural Network in Intelligent Transport System," *International Journal of Advanced Research in Computer Science and Software Engineering*, Volume 2, Issue 6, June 2012, ISSN: 2277 128X.

4. P. Karmakar, S. Dhar, M. Chakraborty, **T. Paul**, "Comparative Study of Four Different Types of MTI Filters for Radar Clutter Rejection," *MECS publisher, IJIGSP*, vol. 5, pp. 40 - 46, 2013, ISSN: 2074-9082.

5. P. Karmakar, S. Dhar, M. Chakraborty, **T. Paul**, "Application of Artificial Neural Network for Clutter Rejection," *MECS publisher, IJCNIS*, vol. 4, no. 10, pp. 55-62, 2012, ISSN: 2074-9104.

6. S.Dhar,P. Chhetri, **T.Paul**, R.Dahal, A.Sharma and R.Bera, "Comparison of Different Channel Estimation Algorithms from ITS Perspective," 2011 Annual IEEE India Conference (IN-DICON), Dec 2011, DOI: 10.1109/INDCON.2011.6139475.

7. S.Dhar, A.Poddar , P.Karmakar, **T.Paul**, D.Kandar ,R.Bera, "Radar target modeling and 2D ISAR imaging at 76GHz for ITS application," 2011 Annual IEEE India Conference (IN-DICON), ISBN:978-1-4577- 1110-7,doi: 10.1109/INDCON.2011.6139459.

B. Non-refereed scientific articles

Book: Based on Master's Study Thesis

1. Tirthankar Paul, Channel Estimation Using Adaptive Algorithms: Under Different Channel Scenario. Publisher: LAP LAMBERT Academic Publishing; Illustrated edition (August 1, 2013), ISBN-10:3659412988, ISBN-13:978-3659412981. Link