



# Techno College of Engineering Agartala

An Engineering College affiliated to Tripura University (A Central University),

Approved by AICTE, MHRD, Govt. of India

Website: [www.tiaedu.org](http://www.tiaedu.org)

**Name of the faculty:** Tutan Nama

**Designation:** Associate Professor

**Education:** PhD (CSE)

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**Research Interest:**

- Human-Computer Interaction
- Brain-Computer Interface

**Membership of professional bodies:** NA

**Professional Experience:** NA

**Patents:** NA

**Publications:**

**Publishes Journal/ Conference papers/ Book/ Book Chapters:**

- **Tutan Nama** and Debasis Samanta. 2025. *QC Speller: User Interface Design of a Hands-Free Touch-Free Speller with Brain Electroencephalogram Sensory Rhythm*. ACM Trans. Access. Comput. 17, 4, Article 20 (December 2024), 36 pages. <https://doi.org/10.1145/3705733>
- **Tutan Nama**, Anushka Singh, Gaythri Gadde, Archana Meher, and Debasis Samanta. 2024. *Analysis of Chromatic Response of EEG Signals Induced for Primary Color Visualization*. In: Kakarla, J., Balasubramanian, R., Murala, S., Vipparthi, S.K., Gupta, D. (eds) Computer Vision and Image Processing. CVIP 2024. Communications in Computer and Information Science, vol 2476. Springer, Cham. [https://doi.org/10.1007/978-3-031-93697-5\\_1](https://doi.org/10.1007/978-3-031-93697-5_1)
- **Tutan Nama** and Debasis Samanta. 2024. *Designing a Sequential Hybrid BCI Speller on Fusion of Motor Imagery and Steady-State Visually Evoked Potentials EEG Data*. In Proceedings of the Fourteenth Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP '23). Association for Computing Machinery, New York, NY, USA, Article 36, 1–9. <https://doi.org/10.1145/3627631.3627667>
- Subrata Pain, Aritra Shome, **Tutan Nama**, Debasis Samanta, Monalisa Sarma. 2024. *A Novel Framework for Cognitive Load Estimation from Electroencephalogram Signals Utilizing Sparse*





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*Representation of Brain Connectivity*. In: Kaur, H., Jakhetiya, V., Goyal, P., Khanna, P., Raman, B., Kumar, S. (eds) *Computer Vision and Image Processing. CVIP 2023. Communications in Computer and Information Science*, vol 2009. Springer, Cham. [https://doi.org/10.1007/978-3-031-58181-6\\_42](https://doi.org/10.1007/978-3-031-58181-6_42)

- **Tutan Nama**, Suman Deb, *Chapter 12 - Teleportation of human body kinematics for a tangible humanoid robot control*, Editor(s): Mamta Mittal, Rajiv Ratn Shah, Sudipta Roy, In *Cognitive Data Science in Sustainable Computing, Cognitive Computing for Human-Robot Interaction*, Academic Press, 2021, Pages 231-251, ISBN 9780323857697, <https://doi.org/10.1016/B978-0-323-85769-7.00011-2>.
- **Tutan Nama**, Suman Deb. (2020). *Intangible Learning Experience Using Leap Motion Controller for Distance Mapping*. In: Kar, N., Saha, A., Deb, S. (eds) *Trends in Computational Intelligence, Security and Internet of Things. ICCISIoT 2020. Communications in Computer and Information Science*, vol 1358. Springer, Cham. [https://doi.org/10.1007/978-3-030-66763-4\\_2](https://doi.org/10.1007/978-3-030-66763-4_2)
- **Tutan Nama**, Suman Deb, Barnita Debnath, Pooja Kumari, *Designing a humanoid robot integrated Exer-Learning-Interaction(ELI)*, *Procedia Computer Science*, Volume 167, 2020, Pages 1524-1532, ISSN 1877-0509, <https://doi.org/10.1016/j.procs.2020.03.363>.
- **Tutan Nama** and Suman Deb, “*2D Object Transformation by Mapping of Hand Gesture Using Leap Motion Controller*,” 2019 Second International Conference on Advanced Computational and Communication Paradigms (ICACCP), Gangtok, India, 2019, pp. 1-4, doi:10.1109/ICACCP.2019.8882974
- Suman Deb and **Tutan Nama**, “*Interactive Boolean Logic Learning Using Leap Motion*,” 2018 IEEE Tenth International Conference on Technology for Education (T4E), Chennai, India, 2018, pp. 220-222, doi: 10.1109/T4E.2018.00060.

**Achievements (if any): NA**

**Hobbies: Art and Craft, Reading Books, and Sleeping.**