

## Dr. Heisnam Rohen Singh

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### Academic Qualification

- Ph.D (Computer Science and Engineering) – NIT Silchar.
- M.Tech (Information Technology)- Tezpur University.
- B.Tech (Computer Science and Engineering) - MIT Aurangabad.
- Qualified UGC NET.
- Qualified GATE.

### Research Area:

Machine learning, Data Mining, Neuro-fuzzy systems.

### Teaching Experience:

- Assistant Professor at Jorhat Engineering College, Jorhat Assam Under TEQIP-III (Sept, 2018-June 2020).
- Assistant Professor at Lok Nayak Jai Prakash Institute of Technology, Chapra, Bihar Under TEQIP-III (Jan, 2018-Sept, 2018)

### Sponsored Project:

- CO-PI for the research project title “**Automatic Identification of Flora and Fauna of North-eastern region of India for protecting and conserving the biodiversity**” sponsored by TEQIP –III. (on going)

### Published Articles:

1. **Heisnam Rohen Singh**, Saroj Kr. Biswas, Monali Bordoloi, “**Recent neuro-fuzzy approaches for Feature selection and classification**”, Exploring Critical Approaches of Evolutionary Computation, IGI Global book series, 2019, Page (1-19) ISSN: 2327-039X.
2. **Heisnam Rohen Singh**, Saroj Kr. Biswas, “**A Neuro-fuzzy Classification system using Dynamic Clustering**”, Machine Intelligence and Signal Analysis, Advances in Intelligent Systems and Computing, Springer, vol. 748, Page (157- 170), April 2018, ISSN 2194-5357, ISSN 2194-5365 (electronic)
3. **Heisnam Rohen Singh** and Saroj Kr. Biswas, “**Transparent Neuro-fuzzy model for Linguistic variables selection and rule-based classification**”, International Journal of Pure and Applied Mathematics, vol. 118, no. 19, page (85-100), 1 February 2018, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version).
4. **Heisnam Rohen Singh**, Saroj Kr. Biswas, Biswajit Purkayastha, “**A neuro-fuzzy classification technique using dynamic clustering and GSS rule generation**”,

Journal of Computational and Applied Mathematics, Elsevier, vol. 309, 1 January 2017, Page (684-694), ISSN No. 0377-0427.

5. Saroj Kr. Biswas, Manomita Chakraborty, **Heisnam Rohen Singh**, Debashree Devi, Biswajit Purkayastha, Akhil Kr. Das, “**Hybrid case-based reasoning system by costsensitive neural network for classification**”, Soft Computing, Springer, vol. 21, no. 200, December 2017, Page (1-18) ISSN No. 1433-7479(Online)1432-7643 (Print).

6. Saroj Kr. Biswas, Monali Bordoloi, **Heisnam Rohen Singh**, Biswajit Purkayastha, “**A Neuro-Fuzzy Rule-Based Classifier Using Important Features and Top Linguistic Features**”, International Journal of Intelligent Information Technologies (IJIIT), vol. 12, no. 3, July-September 2016, Page (38 - 51), I ISSN: 1548-3657.

7. Saramah Mriganka, **Heisnam, Rohen Singh**, “**The Rapid Sort**”, International journal of advances in computer science and its application, vol. 4, no. 3, Page (43-47), IRED.

8. Lourembam Suraj Singh, **H. Rohen Singh**, A. Neelima, S. Ibotombi Singh, “**Trust and Reputation Model Based on Causal Induction Method**”, International Journal of Computer Science and Technology (IJCST), vol. 3, no. 3, July-Sept. 2012 Page (11-16), Cosmic Journals, ISSN No. 0976-8491 (Online) 2229-4333 (Print).

9. A. Neelima, **Heisnam Rohen Singh** and Lourembam Suraj Singh “**Inferring Trust In Web-Based Social Network Using Social Impact Theory**”, International Journal of Engineering Research & Technology (IJERT), vol. 2 Issue 7, July – 2013, ISSN: 2278-0181.

10. **Heisnam Rohen Singh**, A. Neelima and Lourembam Suraj Singh “**A Model of Computing Trust in Web Based Social Network Using New Aggregation and Concatenation Operators**”, International Journal of Computer Science and Network, vol. 2, no. 4, August 2013, ISSN (Online): 2277-5420.

#### **Conference Proceedings:**

1. **Heisnam Rohen Singh**, Mriganka Sarmah “**Comparing Rapid Sort with Some Existing Sorting Algorithms**”, Proceedings of Fourth International Conference on Soft Computing for Problem Solving, pages 609-618, Springer.
2. **Heisnam Rohen Singh** and Saroj Kr. Biswas, “**Transparent Neuro-fuzzy Rule-based Classification System**”. International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), 2018, (KIIT), Bhubaneswar, India.

#### **Faculty development program**

1. Faculty Induction Program from 29<sup>th</sup> January to 2<sup>nd</sup> February, 2018 held at IIT Kanpur.
2. Summer Training Program on Active learning from 2<sup>nd</sup> June to 6<sup>th</sup> June, 2018 held at IIT Kanpur.
3. One Week Online International Faculty Development Programme on Machine Learning and Computer Vision: Applications, Research Challenges from 24<sup>th</sup> August to 28<sup>th</sup> August, 2020, held at NIT Silchar.