

Ramesh Singh

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Joining Date: 15-May-2015



Education

Examination	University/Institute	Year
Ph.D. (CSE)	IIIT Guwahati	Pursuing
Master of Technology(CSE)	IIT Guwahati	2013
Bachelor of Technology(CSE)	UPTU, AKGEC Ghaziabad	2010

Research Publications in Journals

1- Ramesh Singh, Radhika Sukapuram, and Suchetana Chakraborty. "rGFT: Reducing Game Frame Time of AR/VR games." *Ad Hoc Networks* (2026): 104271, <https://doi.org/10.1016/j.adhoc.2026.104271> (Impact factor: 4.8, SCIE)

2-- Singh, Ramesh, and Radhika Sukapuram. "Decentralized profit maximization and Game Frame Time reduction in multi-access edge networks with multiple service providers." *Computer Communications* (2026): 108522, <https://doi.org/10.1016/j.comcom.2026.108522> (Impact factor: 4.3, SCIE) [Won the AdHoc Networks 2024 Best Paper Award]

3- Ramesh Singh, Radhika Sukapuram, Suchetana Chakrabort, A survey of mobility-aware Multi-access Edge Computing: Challenges, use cases and future directions, *Ad Hoc Networks*, Elsevier 2023, Volume 140, 103044, ISSN 1570-8705, <https://doi.org/10.1016/j.adhoc.2022.103044> (Impact factor: 4.8, SCIE)

4- Ramesh Singh, Chenlep Yakha Konyak, and Akangjungshi Longkumer. "A Multi-Access Edge Computing Approach to Intelligent Tutoring Systems for Real-Time Adaptive Learning." *International Journal of Information Technology* 17.4 (2025): 2117-2128, <https://doi.org/10.1007/s41870-025-02460-w> (SCOPUS)

5- Ramesh Singh, Sandip Chakraborty, and Sushanta Karmakar. "Concurrent deterministic 1–2 skip list in distributed message passing systems." *International Journal of Parallel, Emergent and Distributed Systems*, Taylor and Francis, 30, no. 2 (2015): 135-174, <https://doi.org/10.1080/17445760.2013.876637> (Impact factor: 0.8, ESCI)

6- Ramesh Singh, Akangjungshi Longkumer, "A survey on various distributed data structure exist for P2P system", *Nagaland University Research Journal*, ISSN : 0973-0346, 2016.

7- Sanjib Das, Sukumarnandi, **Ramesh Singh**, Teisovi Angami "An Intrusion Detection System for DNS Cache Poisoning Attack", *Nagaland University Research Journal*, ISSN : 0973-0346, 2016

Research Publications in Conferences/book chapter

1- Ramesh Singh, Radhika Sukapuram, Suchetana Chakraborty, *Mobility-aware Multi-Access Edge Computing for Multiplayer Augmented and Virtual Reality Gaming*, 2022 IEEE 21st International Symposium on Network Computing and Applications (NCA), <https://doi.org/10.1109/NCA57778.2022.10013599>

2-Ramesh Singh, and Radhika Sukapuram. "Multi-SP Profit Maximization and Game Frame Time Reduction Scheme for Multi-Access Edge." In 2025 National Conference on Communications (NCC), pp. 1-6. IEEE, 2025, <https://doi.org/10.1109/NCC63735.2025.10982950>

3-Ramesh Singh, Chenlep Yakha Konyak, Akangjungshi Longkumer, Anand Kumar, Akash Sarkar, Ashim Paul, and Gaurab Thapa. "Recommendation System to Assist Learner: Intelligent Tutoring System." In *International Conference on Biologically Inspired Techniques in Many-Criteria Decision-Making Technologies*, pp. 233-242. Cham: Springer Nature Switzerland, 2024, https://doi.org/10.1007/978-3-031-82706-8_24 (book chapter)

4- Kuraktsang, K., Ramesh Singh, Akangjungshi Longkumer, Chenlep Yakha Konyak, and Bendangchila Longkumer. "Real-Time and Pre-Booked Road Side Parking System Using Internet of Things." In *International Conference on Biologically Inspired Techniques in Many-Criteria Decision-Making Technologies*, pp. 396-402. Cham: Springer Nature Switzerland, 2024, https://doi.org/10.1007/978-3-031-82706-8_40 (book chapter)

5- Chenlep Yakha Konyak, Ramesh Singh, Akangjungshi Longkumer, Hemanta Kumar Nath, Rupak Jyoti Borah, Rakesh Sah, Gaisimthang M Benjamin "Smart IoT-Driven Solution for Real-Time Household Food Waste Monitoring and Reporting." In *International Conference on Machine Intelligence for Research and Innovations (MAITRI 2026)* <https://link.springer.com/book/9783032237903> (book chapter) (In press)

6- Chenlep Yakha Konyak, Rahul Kumar, Maongchuba Ozukum, Ramesh Singh, and Sourav Hazarika. "Solana Powered Peer-to-Peer Energy Trading System." In *International Conference on Machine Intelligence for Research and Innovations (MAITRI 2026)* <https://link.springer.com/book/9783032237903> (book chapter)(In press)

Experience

- Assistant Professor in the **Dept. Of Computer Science & Engineering, Nagaland University** since May 2015
- Teaching Assistant with **NIT Nagpur**, July 2014 – May 2015

Workshop/seminar Attended:

- Two-Day Workshop on NLP for Indigenous Languages of Northeast India: Focus on Naga Languages, 18-19th March 2025, Organized by Nagaland University.
- Faculty Development Programme, 24th-28th March 2025, organized by Internal Quality Assurance Cell, Nagaland University
- FDP on “**Advanced Computer Architecture**” offered by NPTEL-AICTE , Feb-Apr 2022
- FDP on “**Introduction to Research**” offered by NPTEL-AICTE, Feb-Apr 2022
- FDP on “**Internet of Things**” offered by NPTEL-AICTE, Jul-Oct 2022
- Webinar on “**Improving research writing using Grammarly**”, organized by Nagaland University and BridgePeople, 30th March 2022
- Training cum Workshop on “**ACADEMIC ADMINISTRATION**” (Module 3 and 4) organized by, Nagaland University, 2020
- Refresher course “**ARPIT 2019**” through SWAYAM organized by IIT Bombay from 3rd September to 31st December, 2019.
- Workshop on “**IoT and Blockchain**” at IIIT Guwahati from 28th-29th September, 2019.
- Workshop on “**Android App Development**” organized by SET Dimapur, Nagaland University, 22nd-23rd September (2017)
- Workshop on “**Writing Magic with Latex**” organized by NIT Nagaland (18th May 2016).
- Workshop on “**Foundations of Software Technology and Theoretical Computer Science**, at IIT Guwahati (2013).
- Workshop on “**Introduction to Graph and Geometric Algorithms**” at IIT Guwahati (2012).
- Workshop on “**Industrial Conclave**” in Techniche at IIT Guwahati (2012).
- Workshop on “**Ethical Hacking and Information Security**, workshop” in Techniche at IIT Guwahati (2011).
- A seminar on “**Microsoft DreamSpark Yatra**” at Ajay Kumar Garg Engg. College, Ghaziabad (2010).

Official Duties Assigned:

- CSE Dept. In-charge (from 14th July 2025-Present)
- Placement in-charge from Aug 2021- 30th July 2025
- Common pool In-charge (From 3rd Aug 2019 - Aug 2021).
- CSE Dept. In-charge (From 3rd Aug, 2017 - Aug 2019).
- SET, Games & Sports In-charge (26th May 2017- Aug 2019)

Scholastic Honours and Achievements

- Ad Hoc Networks 2024 Best Paper Award
- Best paper award at 3rd International Conference on Biological-Inspired Techniques in Many-Criteria Decision-Making (BITMDM-2024)
- Qualified UGC NET, UGC JRF, and GATE
- Got 1st position in Badminton Doubles during Sports Meet, NU 2016, 2017, 2018, 2019, 2020, 2023
- Organized a one day seminar on Startup Sprint (Think Big and Build Fast) as SET, Nagaland University, 22nd April 2026.
- Organized a one-day workshop on Web 3 Technology at SET-NU, 11th May 2023
- Organized a national level workshop on Android App Development at SET Dimapur, Nagaland University, 22nd - 23rd September, 2017

Areas of Interest

Internet of Things and Data analytics, Edge Computing, Operating System, Data Structure and Programming

Subjects taught

Operating system, Internet of Things, Data Analytics, Python programming language, Advanced computer architecture, C programming language, Software testing, Computer architecture & organization, Compiler design.