

CURRICULUM VITAE

ROHIT KUMAR DAS

Corresponding Address

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Experience

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|---|-------------------------|
| Assistant Professor Grade 2, Level 11 Dept. of Computer Science and Engineering IIITDM Kurnool Andhra Pradesh | 08/05/2025 – Present |
| Assistant Professor Senior Grade 2 School of Computer Science and Engineering VIT-AP University Andhra Pradesh | 01/08/2023 – 07/05/2025 |
| Assistant Professor Senior Grade 1 School of Computer Science and Engineering VIT-AP University Andhra Pradesh | 11/05/2021 – 31/07/2023 |
| Assistant Professor Department of Computer Science and Engineering Sikkim Manipal Institute of Technology Sikkim | 01/08/2020 – 05/05/2021 |
| Guest Lecturer MIT University Shillong, Meghalaya | 16/08/2018 – 15/12/2018 |
| Guest Lecturer Mizoram University Aizawl, Mizoram | 01/08/2014 – 31/07/2016 |

Education

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| Ph.D.: Information Technology Thesis Title: <i>Design of Software Defined Network (SDN) based Controller for Internet of Things (IoT)</i> North-Eastern Hill University Shillong Meghalaya India | 2021 |
| M.Tech: Information Technology Assam University Silchar Assam India CGPA: 7.55 | 2014 |
| B.Tech: Information Technology Mizoram University Aizawl Mizoram India CGPA: 7.235 | 2012 |

Patents (5)

- Title:** Multi-Purpose Switch Adaptable for a Specific SDN Based IoT Architecture,
Inventor: Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,
Application No. 201931049931, **Status:** **Granted**
- Title:** An improved SDN based IoT system,
Inventor: Goutam Saha, **Rohit Kumar Das**, Nurzaman Ahmed and Arnab Kumar Maji,

Application No. 202131017791, **Status:** **Granted**

3) Title: Smart Automated IoT Based Food Feeding System,

Inventor: **Rohit Kumar Das**

Application No. 202341039070, **Patent No.:** 581720 **Status:** **Granted**

4) Title: Brain-Computer Interface (BCI) System and Method for Controlling Movements of Wheelchair for Physically Challenged Individuals,

Inventor: **Rohit Kumar Das**, Prashant Patel, Monali Bordoloi, Pratyush Kumar Sahoo, Tharakaraman Lakshminarayana, and Katakam Sai Madhu

Application No. 202541062800, **Status:** **Published**, **Date of Filing:** 01/07/2025,

Published on: 11/07/2025

5) Title: System and Method for Monitoring Structural Health of Infrastructures and Transmitting Emergency Alerts to Users,

Inventor: **Rohit Kumar Das**, Lavanya Kotha, and Chetan Gudditi

Application No. 202541035142, **Status:** **Published**, **Date of Filing:** 10/04/2025,

Published on: 09/05/2025

Publications:

Journal Articles (9)

1. Roy, K. S., Kumar, M., Singh, S., Deb, S., **Das, R. K.**, & Hassan, S. M. (2026). Taxonomy of threats, security mechanisms, and regulatory frameworks for cargo delivery drones. *Journal of Transportation Security*, 19(1), 5. (**Scopus**)
 2. **Das, R. K.**, Ahmed, N., Maji, A. K., & Saha, G. (2023). Edge Controller-Assisted SDN Architecture for Internet of Things. *IEEE Sensors Journal*. Vol. 23, Issue 22, pp. 28182-28190, DOI: 10.1109/JSEN.2023.3317841. ISSN 1558-1748. (**SCI Impact factor 4.3, Q1**)
 3. Gadhamsetty, V. D. A & **Das, R. K.** (2023). ASM-SDN: An Automated Station Migration system in Cluster-Based Heterogeneous Software-Defined Network. *The Journal of Supercomputing*. Vol. 79, Issue 17, pp. 18993-19018, DOI: 10.1007/s11227-023-05392-z, ISSN No. 0920-8542. (**SCI Impact factor 3.3, Q2**)
 4. **Das, R. K.**, Ahmed, N., Maji, A. K., & Saha, G. (2022). Nx-IoT: Improvement of conventional IoT Framework by incorporating SDN Infrastructure. *IEEE Internet of Things Journal*, Vol. 10, Issue 3, pp. 2473-2482, DOI: 10.1109/JIOT.2022.3215650. (**SCI Impact factor 10.238, Q1**)
 5. Rahman, M. S., & **Das, R. K.** (2022). RTID: On-demand real-time data processing for IoT network. Vol. 62, Part 7, pp. 4721-4725, *Materials Today: Proceedings*, Elsevier, DOI: 10.1016/j.matpr.2022.03.168 (**Scopus**)
 6. **Das, R. K.**, Maji, A. K., & Saha, G. (2022). SD-6LN: improved existing internet of things framework by incorporating software defined network approach. *International Journal of Grid and Utility Computing*, Vol. 13, No. 4, pp. 406-413 (2022), DOI: 10.1504/IJGUC.2022.125144 (**Scopus**)
 7. **Das, R. K.**, Ahmed, N., Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). 6LESND: An Edge-Based Software-Defined Network for Internet of Things. *IEEE Internet of Things Journal*, Vol. 7, No. 8, pp. 7725-7733, 2020, DOI: 10.1109/JIOT.2020.2990936 (**SCI Impact factor 10.238, Q1**)
 8. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). FT-SDN: A Fault-Tolerant Distributed Architecture for Software Defined Network. *Wireless Personal Communications*, Vol. 106, No. 2, pp. 1045-1066, 2020, DOI: 10.1007/s11277-020-07407-x (**SCIE Impact factor**)
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2.017, Q2).

9. Pohrmen, F. H., **Das, R. K.**, & Saha, G. (2019). Blockchain-based security aspects in heterogeneous Internet-of-Things networks: A survey. *Transactions on Emerging Telecommunications Technologies*, Vol. 30, No. 10, pp. e3741, 2019, DOI: 10.1002/ett.3741 (SCI Impact factor 3.31, Q1).

Conference Proceedings (14)

1. Karrolla, B., Kar, U. N., & **Das, R. K.** (2025, December). A Study on Machine Learning Models Performance Analysis in Smart Home Appliances. In 2025 OITS International Conference on Information Technology (OCIT) (pp. 1151-1156). IEEE.
 2. Sathya Krishna, K. P., & **Das, R. K.** (2024). Agent-Based Load Balancing on Dynamic Programmable Network. In *International Conference on Computational Intelligence and Data Engineering* (pp. 311-321). Singapore: Springer Nature Singapore.
 3. A. S. Viswanatham, K. Bharath, and **R. K. Das** (2024). ACLR: Advanced container-based Logistic Regression for real-time registry management in Edge Networks. 5th International Conference Intelligent Systems and Machine Learning. (Accepted – Under Production)
 4. **Rohit Kumar Das**, Akarsh Gupta, Shivam Boda, Parth Joshi, Nurzama Ahmed (2023). A study on the performance of network topologies in SDN-based Edge IoT Network. 2nd International Conference on Data, Electronics and Computing (ICDEC-2023), Mizoram University, India, *Lecture Notes in Networks and Systems*, Springer, vol 1102, (pp. 387-399), DOI: 10.1007/978-981-97-8476-9_28, ISBN: 978-981-97-8476-9
 5. Gadhamsetty, V. D. A & **R. Kuma** (April 2023). A Study on Advanced Networking using Intelligent Systems Applications. (pp. 1-8) IEEE 8th International Conference for Convergence in Technology (I2CT), Lonavla, India. DOI: 10.1109/I2CT57861.2023.10126117. Electronic ISBN: 979-8-3503-3401-2
 6. **Das, R. K.**, Jha, M., & Harizan, S. (2022). Performance Appraisal of 6LoWPAN and OpenFlow in SDN Enabled Edge-Based IoT Network. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 21-29). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9_3
 7. Harizan, S., Kuila, P., & **Das, R. K.** (2022). HSA Based Sensor Nodes Deployment Strategy for Coverage and Connectivity in WSNs. In *Advanced Computational Paradigms and Hybrid Intelligent Computing* (pp. 73-81). Springer, Singapore. DOI: 10.1007/978-981-16-4369-9_8
 8. **Das, R. K.**, Pohrmen, F. H., Maji, A. K., & Saha, G. (2021). FoSDN: A Software-Defined Edge Computation for Resource Constraint Network. In *Proceedings of the International Conference on Computing and Communication Systems* (pp. 463-470). Springer, Singapore. DOI: 10.1007/978-981-33-4084-8_44
 9. **Das, R. K.**, Maji, A. K., & Saha, G. (2021). SD-6LN: Improved Existing IoT Framework by Incorporating SDN Approach. In *International Conference on Innovative Computing and Communications* (pp. 599-606). Springer, Singapore. DOI: 10.1007/978-981-15-5113-0_48
 10. Marshoodulla, S. Z., **Das, R. K.**, & Saha, G. (2019). Big Data Issues in SDN Based IoT: A Review. In *International Conference on Big Data, Machine Learning, and Applications* (pp. 72-82). Springer, Cham. DOI: 10.1007/978-3-030-62625-9_7
 11. Pohrmen, F. H., **Das, R. K.**, Khongbuh, W., & Saha, G. (2018, July). Blockchain-based security aspects in Internet of Things network. In *International Conference on Advanced Informatics for Computing Research* (pp. 346-357). Springer, Singapore. DOI: 10.1007/978-981-13-3143-5_29
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12. **Das, R. K.**, Maji, A. K., & Saha, G. (2019). Prospect of Improving Internet of Things by Incorporating Software-Defined Network. In *Advances in communication, devices and networking* (pp. 537-544). Springer, Singapore. DOI: 10.1007/978-981-13-3450-4_58. The second International Conference in Communication, Devices and Networking (ICCDN 2018), Sikkim Manipal Institute of Technology, Majhitar, Sikkim
 13. Chawngsangpuii, R., Lalchhanhima, R., Regmi, R., Srivastava, M., & **Das, R. K.** (2016, March). Wi-Fi Control Bot with Real-Time Video Streaming. In *2016 3rd International Conference on Recent Advances in Information Technology (RAIT)* (pp. 570-575). IEEE. DOI: 10.1109/RAIT.2016.7507961
 14. **Das, R. K.**, Das, B., & Roy, S. (2014, April). Performance appraisal of learning automata in networks. In *2014 Fourth International Conference on Communication Systems and Network Technologies* (pp. 1110-1113). IEEE. DOI: 10.1109/CSNT.2014.227
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Book Authored (1):

1. **Das, R. K.**, & Saha, G. (2026). *Software-Defined Networking for IoT Systems: Architecture, Integration, and Applications*. 1st Edition, eBook ISBN: 9781003714651, CRC Press. DOI: 10.1201/9781003714651
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Book Chapters (3):

1. **Das, R. K.**, & Bordoloi, M. (2026). Dynamic Optimization of 6G Networks with AI-Driven SDN Approaches. *Driving Innovation by Dynamic Optimization* (pp. 355-370). John Wiley & Sons, Ltd. DOI: 10.1002/9781394173006.ch9, ISBN: 9781394315727
 2. Selvaraj, P., **Das, R.K.**, Burugari, V.K., Karri, G.R., Kanmani, P. and Namburu, A. (2024). Blockchain-Based Energy Transmission System. *Cyber Physical Energy Systems* (pp. 291-323). John Wiley & Sons, Ltd. DOI: 10.1002/9781394173006.ch9, ISBN: 9781394173006
 3. **Das, R. K.**, & Roy, S (2022). An ML-Driven SDN Agent for Blockchain-Based Data Authentication for IoT Network. In *Blockchain for IoT* (pp. 155-165). Chapman and Hall/CRC. eBook ISBN: 9781003188247
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Journal Reviewer

- a) IEEE Internet of Things
 - b) Wiley Transactions on Emerging Telecommunications Technologies
 - c) Springer Wireless Personal Communication
 - d) IEEE Transactions on Vehicular Technology
 - e) IEEE Sensor
 - e) IEEE Transactions on Mobile Computing
 - f) IEEE Transactions on Wireless Communications
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Resource Person

- a) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, Mizoram University, Aizawl, India (27th Sept – 4th October, 2019)
 - b) AICTE Training and Learning (ATAL) Academy Programme, Department of IT, North-Eastern Hill University, Shillong, Meghalaya, India (5th Oct – 9th October, 2020)
 - c) Latex Workshop, Department of CSE, Sikkim Manipal Institute of Technology, Sikkim, India (8th Oct – 14th October, 2020)
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- d) 5 Days New Faculty Orientation programme -- CO/PO/Mapping of CO and PO, Center for Teaching and Learning, VIT-AP University (23rd April 2022 - April 2022)

Invited Talks:

- a) Drawbacks of IoT and its improvement, on 19th July 2022, at Computer Science and Engineering Department, ICFAI University Tripura, India
- b) IoT-enabled Smart Sustainable Cities, Department of Information Technology, on 28th February 2023 in IPSG College of Arts & Science, Coimbatore, India
- c) Transforming Real-Time Edge Applications with EdgeAI: Harnessing the Future of Instantaneous Insights, on 8th September 2023 in Mizoram University, Short Term Course on “Information and Communication Technology”, Mizoram, India
- d) AI-Driven Business Intelligence & Decision Support, on 8th May 2026, at JAIN (Deemed-to-be University) Bangalore, India

Workshop Organized

- a) FIVE Day Faculty Workshop on “Research Proposal Writing & Funding Opportunities” from 1st March - 5th March 2022, VIT-AP University, Amaravati, Andhra Pradesh
- b) One Day National Level Workshop on “CUDA Programming with Python” sponsored by NVIDIA Deep Learning Institute (DLI) – 9th May 2022, VIT-AP University, Amaravati, Andhra Pradesh
- c) FIVE Day Faculty Workshop on “Outcome based Education and National Education Policy” from 27th August – 31st August 2024, VIT-AP University, Amaravati, Andhra Pradesh

Professional Membership

IEEE Senior Member

Personal Details

Nationality: Indian
Date of Birth: 05th September 1991
Father’s Name: Sisir Kumar Das (L)
Mother’s Name: Swapna Das
Status: Married
Spouse Name: Dr. Monali Bordoloi

Reference:

Prof. Goutam Saha
Professor (Retd)
Dept. of IT, NEHU, Shillong, Meghalaya
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Dr. Arnab Kumar Maji
Associate Professor
Dept. of IT, NEHU, Shillong, Meghalaya
Ph No. 9436333083

I hereby declare that all the information given is correct to the best of my knowledge.



(ROHIT KUMAR DAS)

Dated: 28th May, 2026
