CURRICULUM VITAE

ROHIT KUMAR DAS

Corresponding Address
Central Block, 418-H
School of Computer Science and Engineering
VIT-AP University, Andhra Pradesh - 522237
email: rohitdas.it.13@gmail.com | rohitkumar.d@vitap.ac.in
Phone No. +91-9706563418
Webpage: https://rohitdas01.github.io/

Experience		
	Assistant Professor Senior Grade 2 School of Computer Science and Engineering VIT-AP University | Andhra Pradesh	01/08/2023 – Present
	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		
	Ph.D.: Information Technology **Thesis Title:** *Design of Software Defined Network (SDN) based Controller for Internet of Things (IoT)* 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 (3)	
	1) 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**
	2) 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, **Status:** Published

Publications:

Journal Articles (8)

1. **Das, R. K.,** Ahmed, N., Maji, A. K., & Saha, G. (NOVEMBER 15, 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**)

2. 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**)

3. **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**)

4. 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**)

5. **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**)

6. **Das, R. K.**, Ahmed, N., Pohrmen, F. H., Maji, A. K., & Saha, G. (2020). 6LESDN: 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**)

7. **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 2.017, Q2**).

8. 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 (11)

1. **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). In production

2. 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

3. **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

4. 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

5. **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

6. **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

7. 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

8. 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

9. **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

10. 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

11. **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

Book Chapters (2):

1. 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

2. **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

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

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)

    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

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

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 Dept. of IT, NEHU, Shillong, Meghalaya Ph No. 7980904316	**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

(ROHIT KUMAR DAS)
Dated: 11th September, 2024