

NEWSLETTER

Computer Engineering Department,
Sardar Vallabhbhai National Institute of Technology,
Ichchhanath, Surat - 395007



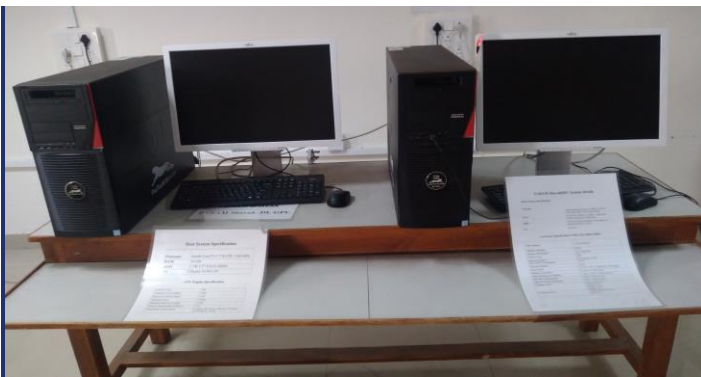
Department Mission

Impart education that encourages students to read critically, reason analytically, communicate persuasively, apply professionally and prepare them to excel in the field of computing.



Department Vision

The vision of Computer Engineering Department is to recognize itself as globally renowned learning centre in the field of Computer Science & Engineering and foster the research and innovations for the global good.



Faculty Information

Recently Appointed



Dr. Keyur Parmar

Ph.D.: SVNIT Surat

Area of Interest: Information Security and Blockchain Technology

Email: keyur@coed.svnit.ac.in, keyur.nitsurat@gmail.com

Phone: +91 8141133115, 0261-2201767



Dr. Balu L. Parne

Ph.D.: VNIT Nagpur

Area of Interest: Authentication and Key Agreement in Mobile Communication Networks, Information Security and Privacy in Internet of Things, Smart Grid Security, Security in Machine to Machine (M2M) Communications, Secure Group Communication in M2M Network

Email: blparne@coed.svnit.ac.in, baluparne@gmail.com

Phone: +91 9422448729



Dr. Deepak Ranjan Nayak

Ph.D.: NIT Rourkela

Area of Interest: Machine Learning and Deep Learning, Pattern Recognition, Computer Vision, Medical Image Analysis and Classification, Hyperspectral Imaging, Large, Scale Image and Video Classification

Email: drnayak@coed.svnit.ac.in, depakranjannayak@gmail.com

Phone: +91 9861352739

Faculty Achievements

Dr. Devesh C. Jinwala

- He is the senior most professor and has been recently granted Higher Administrative Grade (HAG).
- He has served as Professor on deputation in Computer Science and Engineering, IIT Jammu (July 2018 - Dec 2019).
- He has served as Visiting Professor, Daniel Felix Ritchie School of Engineering and Computer Science, University of Denver, Denver, USA (July 2016 - June 2017).



Dr. Bhavesh N. Gohil

- He has been recently awarded Ph.D. in Computer Engineering from SVNIT Surat (Thesis Area - Load Balancing in Cloud Computing).
- He has been recently promoted to Assistant Professor (Level 12, AGP 8000).

MoU with Department



The MoU is signed on 13th June, 2017 at Pune, between Centre for Development of Advanced Computing (C-DAC), Pune and Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat for installation of Super Computer “PARAM Shavak” at SVNIT for capability building in the area of High Performance Computing and Deep Learning. Duration of the MOU is three years from the signing date of the MoU.

Research Projects (2019-2020)

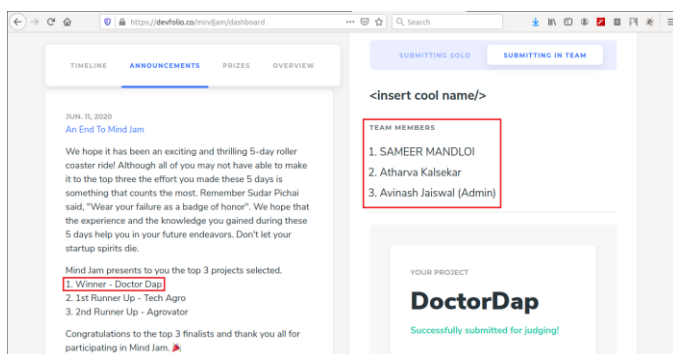
Title of Project	Duration	Sanction Amount (Rs.)	Principal Investigator/ Co-Investigator	Status
Information Security Education and Awareness Project (ISEA), Phase III, funded by MeitY, Government of India	2015 Onwards	63 Lakhs	Prof. D. R. Patel (Currently @ VJTI, Mumbai) Prof. D. C. Jinwala (HAG) Dr. Udai Pratap Rao Dr. Sankita J. Patel	Ongoing
Collaborative Data Processing and Resource Optimization for Post Disaster Management and Surveillance using Internet of Things sponsored by the Ministry of Communications & Information Technology, Department of Electronics & Information Technology, Government of India, New Delhi, vide Administrative Approval No. 13(4)/2016-CC&BT	July 2016- June 2019	65 Lakhs	Prof. M. A. Zaveri	Completed
Investigating Lightweight Cryptography Algorithms and its Applications to various IoT Devices under TEQIP III	July 2019- June 2020	2.00 Lakhs	Dr. U P Rao	Ongoing

Student Achievements

Sports

Aafaq Inamdar (M.Tech I, P19CO003)

- Received Bronze medal at Gujarat State Strength Lifting under 85 kg weight class (Best lifts, Incline pres:127.5 kg, Curl: 57.5kg, Hack lift: 195kg) on 18th August, 2019.
- Received Bronze medal for power lifting total at National Power Lifting Meet, Delhi under 23 age groups under 83 weight class on 29th September, 2019
- Received Gold medal for Bench at National Power Lifting Meet, Delhi under 23 age groups under 83 weight class on 29th September, 2019
- Received Gold medal for Deadlift at National Power Lifting Meet, Delhi under 23 age groups under 83 weight class on 29th September, 2019
- Received Gold medal for Powerlifting total under 82.5 kg weight class highest total irrespective of weight class 535 kg at Inter NIT powerlifting meet Jaipur on 19th October, 2019
- Received Gold medal for Deadlift 205Kg and Gold medal for Bench Press 135Kg at Gujrat State Push-Pull Powerlifting Meet Surat on 12th December 2019



Avinash Jaiswal (B.Tech. IV, U16CO070), Sameer Mandloi (B.Tech IV, U16CO097) and Atharva Kalsekar (B.Tech IV, U16CO063)

- Won First prize in MindJam, an online hackathon organized by Developer Student Club on Devfolio platform. He was guided by Dr. Bhavesh Gohil. The hackathon had a total of 49 teams from all over India and each team had a maximum 3 people.

Academic Achievements

1) Awarded for the phenomenal participation in Wintathon 2019 hosted by LinkedIn.

**Divyani Mittal
(U15CO058)**

2) Presented a research paper titled "Preserving Location Privacy using Blockchain" in the spring IETE International Conference on Blockchain Technology during March, 2019.

**Rishipal Yadav
(U15CO036)**

3) Coordinated the hackathon DOTSALESH: ROOT TO IDEAS conducted at Sardar Vallabhbhai National Institute of Technology, Surat during February 2019.

**Avinash Jaiswal
(U16CO070)**

4) Coordinated the hackathon DOTSALESH : ROOT TO IDEAS conducted at Sardar Vallabhbhai National Institute of Technology, Surat during February 2019.

**Vedansh Agrawal
(U16CO066)**

5) Participated as a team CODE HACKERS from SVNIT in the DOTSALESH: ROOT TO IDEAS during February 2019.

**Jaynil Shah
(U17CO024)**

6) Participated in Mixed Reality workshop by Mozilla at FootPrintsX8 of National Level Technical Events.

**Suryansh Singh
(U17CO044)**

7) Participated in "INNOVATION-INNOVATING the change for society" a state level hackathon during February 2019 organized by INNOVATOR CLUB at L. D. College of Engineering, Ahmedabad.

**Hemant Choraia
(U17CO043)**

8) Participated in the Indian Rover Challenge 2019 held at Manipal Institute of Technology.

**Kalash Tiwari
(U17CO064)**

Faculty Publication (SCI/SCOPUS Indexed, 2019-20)

1. J. Sathish Kumar, Saurabh Kumar, Meghavi Choksi, Mukesh Zaveri, "Collaborative Data Acquisition and Processing for Post Disaster Management and Surveillance Related Tasks using UAV based IoT Cloud", International Journal of Ad Hoc and Ubiquitous Computing, Inderscience Publishers, (accepted for publication) November 2019.
2. Rutal Mahajan and Mukesh Zaveri, "Humor Identification using Affect based Content in Target Text", Journal of Intelligent & Fuzzy Systems, IOS Press, (accepted for publication) April 2020.
3. Deepika Yadav, Meghavi Choksi and Mukesh A Zaveri, "Supervised Learning based Greenery region detection using Unmanned Aerial Vehicle for Smart City Application", *Proceedings of IEEE 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2019)*, 6-8 July 2019, IIT Kanpur, India.
4. Aiswarya Mohan, Meghavi Choksi and Mukesh A Zaveri, "Anomaly and Activity Recognition Using Machine Learning Approach for Video Based Surveillance", *Proceedings of IEEE 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2019)*, 6-8 July 2019, IIT Kanpur, India.
5. Aarju Goyal, Kaushal Meena, Karthik Kini, Parth Parmar and Mukesh A Zaveri, "Real Time Collaborative Processing for Event Detection and Monitoring for Disaster Management in IoT Environment", *Proceedings of IEEE 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2019)*, 6-8 July 2019, IIT Kanpur, India.
6. Aakash Vora, Kevin Kumar Amipara, Samarth Modi, Mukesh A. Zaveri, "Data Driven Dynamic Sensor Selection in Internet of Things", *Proceedings of IEEE Region 10 International Conference TENCON (TENCON 2019)*, pp. 1196 - 1201, 17-20 October 2019, Kochi, Kerala, India.
7. B. Varghese, S.Ray, B.N. Gohil, S.Vega, "Research challenges in Query Processing and Data Analytics on the Edge", IBM CASCON 2019, ACM, Markham, ON, Canada, 4-6 November 2019.
8. Bhavesh N. Gohil, Dhiren R. Patel, "An improved Grey Wolf Optimizer(iGWO) for Global Engineering Optimization", Journal of Computational and Theoretical Nanoscience, January 2020.
9. Bhavesh N. Gohil, Dhiren R. Patel, "Fair Fit – A load balance aware VM placement algorithm in cloud datacenter", International conference on advanced communication & computational technology, NIT Kurukshetra, 6-7 December 2019.
10. Mukti Padhya, Devesh C. Jinwala. "BTG-RKASE: Privacy Preserving Revocable Key Aggregate Searchable Encryption with Fine-grained Multi-delegation & Break-The-Glass Access Control." In Proceedings of the 16th International Joint Conference on e-Business and Telecommunications, Vol 2: SECURE, Prague, Czech Republic, July 26-28, 2019.
11. Divyani Mittal, Pooja Suthar Madhuri Patil, P.G.S Pranaya, Dipti P. Rana, Bharat Tidke, "Social Network Influencer Rank Recommender Using Diverse Features from Top- ical Graph", International Conference on Computational Intelligence and Data Science (ICCIDIS 2019), 6th-7th September, 2019, The NorthCap University, Gurugram, 2019.
12. Anjali S. More, Dipti P. Rana, "An Experimental Assessment of Random Forest Classification Performance Improvement with Sampling and Stage Wise Success Rate Calculation", International Conference on Computational Intelligence and Data Science (ICCIDIS 2019), 6th-7th September, 2019, The NorthCap University, Gurugram, 2019.

Faculty Publication (SCI/SCOPUS Indexed, 2019-20)

13. Mitali Desai, Rupa G. Mehta and Dipti P. Rana, "An Empirical Analysis to Identify the Effect of Indexing on Influence Detection using Graph Databases", International Conference on Innovations in Communication Computing And Science, ICCS-2019, 26-27 July 2019.
14. Rishit Dholakia, Richa Randeria, Riya Dholakia, Hunsii Ashar and Dr. Dipti Rana, "Cognitive Demand Forecasting with Novel Features using Word2Vec and Session of the Day", International Conference on Cybernetics, Cognition and Machine Learning Applications (ICMLA), 16-17 August 2019, Goa, India, 2019.
15. M Desai, Rupa Mehta, D P Rana, " An Empirical Analysis to Identify the Effect of Indexing on Influence Detection using Graph Databases", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-9S, July 2019.
16. Priyanka Kanwar, Rupa Mehta, & Bharat Tidke, " Correlation Based Multi-Criteria Feature Weighting for Identification of Top-k Investors and Companies", IEEE 9th International Conference on Advances in Computing & Communications, February-2020.
17. Pankaj Upadhay, Rupa Mehta, "TBSAC: Token Based Secured Access Control for Cloud Data", International Conference on Recent Advancements in Computer, Communication and Computational Sciences, January-2020.
18. Ruchika Gupta, Udai Pratap Rao, "Preserving Location Privacy using Three Layer RDV Masking in Geocoded Published Discrete Point Data", World Wide Web, Springer, 2019. DOI: <https://doi.org/10.1007/s11280-019-00716-7>, August-2019.
19. Brijesh B. Mehta, Udai Pratap Rao, "Improved I-Diversity: Scalable Anonymization Approach for Privacy Preserving Big Data Publishing", Journal of King Saud University - Computer and Information Sciences, Elsevier, 2019. DOI: <https://doi.org/10.1016/j.jksuci.2019.08.006>, August-2019.
20. Ruchika Gupta, Udai Pratap Rao, " VIC-PRO: VICinity PROtection by concealing Location Coordinates using Geometrical Transformations in Location Based Services", Wireless Personal Communications, Volume 107, no. 2, pp.1041–1059, Springer, July 2019.
21. Trivedi, H.S., Patel, S.J., "Design of secure authentication protocol for dynamic user addition in distributed Internet-of-Things", Computer Networks, Elsevier, 2020.
22. Shah, U., Patel, S., Jinwala, D., "A Semi-automated Approach to Generate an Adaptive Quality Attribute Relationship Matrix", Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2020.
23. Shah, U.S., Patel, S.J., Jinwala, D.C., Constructing a knowledge-based quality attributes relationship matrix to identify conflicts in non-functional requirements, Journal of Computational and Theoretical Nanoscience, 2020.