

#### General Chair

Dr. K.V. Krishna Kishore  
Head, Dept. of IT & Dean, Library & IT Services, VFSTR

#### Conference Co-Chair

Dr. D. Venkatesulu  
Professor & Head, Dept. of CSE, VFSTR

Dr. N. Veeranjanyulu  
Professor & Dept. of IT, VFSTR

#### Organizing Secretary

Dr. B. Premamayudu  
Professor & Dept. of IT, VFSTR

#### Organising Committee

Dr. P. Subbarao, Assoc. Prof., VFSTR  
Dr. K. Sujatha, Assoc. Prof., VFSTR  
Ms. K. Santhisri, Assoc. Prof., VFSTR  
Dr. Hemanth Kumar Bhuyan, Assoc. Prof., VFSTR  
Dr. A. Vijayaraj, Assoc. Prof., VFSTR  
Dr. R.Rama Krishnan, Associate Prof., VFSTR  
Mr. K. Praveen Kumar, Asst. Prof., VFSTR  
Mr. Ch. Siva Koteswara Rao, Asst. Prof., VFSTR  
Ms. R.S.M. Lakshmi Patibandla, Asst. Prof., VFSTR  
Dr. U. Janardhan Reddy, Asst. Prof., VFSTR  
Ms. Sk. Nazma Sultana, Asst. Prof., VFSTR  
Mr. D. Anandha Kumar, Asst. Prof., VFSTR  
Ms. T. Gayatri, Asst. Prof., VFSTR  
Mr. G.K. Harinath, Asst. Prof., VFSTR  
Mr. D. Madhusudhan Rao, Asst. Prof., VFSTR  
Mr. P. Rama Doss, Asst. Prof., VFSTR  
Mr. S. Nyamathulla, Asst. Prof., VFSTR  
Mr. M. Srikanth Yadav, Asst. Prof., VFSTR  
Ms. P. Radha Madhavi Asst. Prof., VFSTR  
Mr. V. Nagi Reddy, Asst. Prof., VFSTR  
Ms. Gayatri Ketepalli, Asst. Prof., VFSTR  
Mr. E. Deepak Chowdary, Asst. Prof., VFSTR  
Mr. Ziaulhaque Choudary, Asst. Prof., VFSTR  
Mr. Ch. Subba Reddy, Asst. Prof., VFSTR  
Mr. K. Anjaneyulu, Asst. Prof., VFSTR

#### Chief Patrons

**Dr. L. Rathaiiah**  
Chairman, Vignan's Group

**Sri L. Sri Krishna Devarayalu**  
Vice Chairman, Vignan's Group

#### Patrons

**Dr. Ramamurthy Naidu**, Chancellor

**Dr. K.V. Krishna Kishore**  
Vice Chancellor

#### Co-Patrons

**Cmde. Dr. M. S. Raghunathan**  
Registrar

**Dr. G. Srinivasa Rao**  
Dean, R&D

VIRTUAL MODE

# 3<sup>rd</sup> National Conference on RECENT ADVANCES IN INFORMATION TECHNOLOGY (NCRAIT-2021) (Intelligent Systems)

17 & 18 DECEMBER, 2021

Organized by Department of IT



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
-Estd. u/s 3 of UGC Act 1956

Vadlamudi, Guntur - 522 213. Andhra Pradesh.



**VIGNAN'S**  
Foundation for Science, Technology & Research  
(Deemed to be UNIVERSITY)  
-Estd. u/s 3 of UGC Act 1956

Vadlamudi, Guntur - 522 213. Andhra Pradesh.  
Tel : 0863 2344700 Extn : 153, 165

[www.vignan.ac.in](http://www.vignan.ac.in)

[www.vignan.ac.in](http://www.vignan.ac.in)

## ABOUT VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH (VFSTR)

Vignan's Foundation for Science, Technology and Research is a renowned institution which provides quality education in a diverse and intellectual stimulating environment. It imparts value addition training to students to make them competent and inspired engineers. The institution celebrates the power of knowledge, cultivates vision and encourages new ideas, besides aiming to inculcate human values and instill social consciousness among its students.

The institution is well known for its dedicated faculty, state-of-the-art infrastructure and good learning outcomes. As a University, it is in the process of improving its standards to the level of a global technical institution. Living up to its motto, 'Technology with a Human Face', the institution imparts knowledge and skills, while instilling human values and awareness about self and society. In a recent nationwide survey of Indian Universities carried out by NIRF, VFSTR was placed at 88th rank in 2016 & 2017 consecutively. The University is ISO certified and has been accredited with NAAC 'A+' Grade in 2021.

## DEPARTMENT OF INFORMATION TECHNOLOGY

Information Technology is the soul and psyche of most engineering branches today. It has been instrumental in bringing the world to where it is at present. IT professionals are in high demand, in different environments such as academia, research, industry, government and other domains. The faculty members of the IT department at Vignan have an expertise in diverse and emerging areas such as Cloud Computing, Big Data Analysis, Artificial Intelligence, Soft Computing etc.,

## THE THEME OF NCRAIT

The NCRAIT is conceived as a forum for presenting and exchanging ideas and results of high quality research work in cutting edge technologies and most happening areas of Recent Advances in Information Technologies.

NCRAIT aims to provide a high-level international forum for scientists, engineers, and academicians to present the state-of-art research and applications in Recent Advances in Information Technology. It also provides a platform to the researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field of Information Technology. The vision of the NCRAIT is to promote foster communication among researchers and practitioners.

**Note: Conference proceedings will be published in the form of book chapter of reputed publisher with ISBN number and extended papers will be submitted to scopus indexed journal with additional pay**

Submission Deadline	:	03 DECEMBER 2021
Acceptance Notification	:	07 DECEMBER 2021
Final Manuscript Submission	:	10 DECEMBER 2021
Registration	:	12 DECEMBER 2021
Conference dates	:	17 - 18 DECEMBER 2021

email : [ncrait2021@vignan.ac.in](mailto:ncrait2021@vignan.ac.in)

Dr. N. Veeranjanyulu | [drnvn\\_it@vignan.ac.in](mailto:drnvn_it@vignan.ac.in) | +91 9347162038  
Dr. B. Premamayudu | [drbpm\\_it@vignan.ac.in](mailto:drbpm_it@vignan.ac.in) | +91 9440006478

### Registration Fee

INR 1000

## Call for papers

- ✓ Artificial intelligence
- ✓ Cloud computing
- ✓ 5G Technology
- ✓ Evolutionary computing
- ✓ Autonomous Vehicles and Devices
- ✓ Spintronics
- ✓ Deep Learning
- ✓ Intelligent agent and web applications
- ✓ LiFi Wireless Technology
- ✓ Automatic Attendance System using Face Recognition
- ✓ Machine learning
- ✓ Pattern recognition
- ✓ Immersive Environments and Virtual Reality
- ✓ Soft computing
- ✓ Speech, image, and video processing
- ✓ Internet of things
- ✓ Virtual reality and human-computer Interaction
- ✓ Natural Language Processing
- ✓ ICT in Agriculture & Rural Development
- ✓ Industry 4.0 (4<sup>th</sup> Industrial Revolution)
- ✓ Intelligent Networks
- ✓ Emergency Assistance Robots
- ✓ Home Robots
- ✓ Knowledge Sharing Robots
- ✓ Nano Technology
- ✓ Semi-structured data and XML databases
- ✓ Bioinformatics
- ✓ Stream processing and sensor databases
- ✓ 3D Printing and Rapid Prototyping
- ✓ Temporal, Spatial and Multimedia Data
- ✓ Big Data Analytics
- ✓ Software Engineering
- ✓ Wireless Communication and Mobile computing
- ✓ Cyber security
- ✓ Sentiment Analysis

## Programme Committee Members

- Dr. C. Chandra Sekhar**  
Professor, Department of CSE, IITMadras.
- Dr. PVGD Prasad Reddy**  
Professor, Department of CSE, Andhra University
- Dr. C. Raghavendra Rao**  
Professor, Department of SCIS, University of Hyderabad.
- Dr. R B V Subrahmanyam**  
Professor & Head, Department of CSE, NITW.
- Dr. P Suresh Varma,**  
Professor, Rector, Adikavi Nannaya University
- Dr. D. Venkatesulu**  
Professor & Head, Department of CSE, VFSTR
- Dr. Sukumar Nandi,**  
Professor, IIT Guwahati
- Dr. S. V. Rao**  
Professor, IIT Guwahati
- Dr. Venkata Ramna Badarla**  
Associate Professor, IIT, Tirupati
- Dr. Chandra Sekhara Rao A**  
Assistant Professor, IIT, Dhanbad
- Dr. Ande Prasad**  
Registrar, VSU, Nellore
- Dr. Ramesh Babu Battula**  
Assistant Professor, MNIT, Jaipur
- Dr. Santhosh Kumar Vipparthi**  
Assistant Professor, MNIT, Jaipur
- Dr. Koduganti Venkata Rao**  
Professor, Dept. of CSE, VIIT, Visakhapatnam
- Dr. Y. K. Sundara Krishna**  
Dean, Faculty & Research, Krishna University, A.P.
- Dr. M. Nirupama Bhat**  
Professor, Dept. of CSE, VFSTR
- Dr. S. V. Phani Kumar**  
Assoc. Professor, Dept. of CSE, VFSTR
- Dr. K. Hemantha Kumar**  
Asst. Prof., Dept. of CSE, SRM University, A.P.