



MAJOR Dr. V.A. NARAYANA

B.E, M.Tech, Ph.D, FIE, MCSI, MISTE, MISCA

PROFESSOR OF CSE & PRINCIPAL

Major Dr.V.A.Narayanais Professor in the Department of Computer Science & Engineering and Principal at CMR College of Engineering & Technology. He received his Bachelors Degree in Mechanical Engineering fromUniversity College of Engineering, Osmania University in 1994, Masters Degree in Computer Science and Engineering from University College of Engineering, Osmania University in 2004. He received his Ph.D. in Computer Science and Engineering on the Topic: “DetectingNear Duplicates for Web Documents” from JNTU Hyderabad in 2014. He has over 26 years of experience out of which 11 years of service inthe Indian Army and 15+ years of research and teaching experience.

He has contributed more than 26 research papers in various Scopus Indexed and IEEE Journals. His areas of interest include Data Mining, Web Mining and Database Management Systems etc.,He has provided guidance for more than 22M.Tech student projects. He is currently guiding 1 Ph.D.scholar under JNTUH. He has delivered many ‘invited talks’ and ‘Guest Lectures’ at National and International levels and has authored four books. With the keen interest to promote and develop research, he has organized many International and National Conferences like NCRTCST2012,NCRTCST2013,ICACCT2019and various Workshops, Seminars etc.,

He has received many awards and honors for his service which include “SARVOTHAM ACHARYA PURASKAR” , “Organizational Excellence in Technical Education” , “Best Educationist “,“DEWANG MEHTA” , “Best faculty”, "Best HOD" etc., He has been a part of teaching, research, training and consultancy at CMRCET since 2006.With his rich academic and research experience, he has been instrumental in executing more than 25 Sponsored Research and consultancy projects funded by various funding agencies like DST, and AICTE and other renewed agencies. He is also the Co –

Investigator for “Study of Neuro Medical Diagnostics of Cognitive Impairment in case of Parkinson Disease Using Real-Time Multi-Channel Microelectrode Neural Recording System” funded by Department of Science and Technology. He has published 11 Patents.

He played a key role in the accreditation processes of National Board of Accreditation (NBA) and National Assessment and Accreditation Council (NAAC) and also in UGC Autonomous status. His vision, vibrant spirit and energy have helped in establishing CMRCET as a premiere institute in the state of Telangana. He has always been a very proactive person and has played a key role in all the activities of the College. He displays a keen interest in the affairs of the college and being a student friendly person is avidly interested in the academic progress of the students and staff. He held various positions like Head Dept. of CSE (2006--2009), Course Director & Head (1st Year) (2009-2014) and Dean Academics (2014 – 2016) and since 2016 November as Principal. He is a fellow of Institution of Engineers (India) and member of various professional societies like Fellow Institution of Engineers (India), CSI, ISCA and ISTE.

He was involved in organizing various workshops, Seminars and International and National conferences. He has given various lectures and seminars on his research area.

Awards & Recognition

- Received “SARVOTHAM ACHARYA PURASKAR” A national award for impact creators in engineering education in commemoration of 150th birth anniversary celebrations of Mahatma Gandhi.
- Received “organizational Excellence in Technical Education” award from Indywood Film Carnival 2018 on 2nd December 2018 at HITEX Convention centre Hyderabad. The award was presented by Mr. Ibrahim Abdulla Humaid Al Hosni, Managerial Official from Government of Oman.
- Received Best Educationist Award from Indian Solidarity Council New Delhi on 24/05/2018.
- Received “DEWANG MEHTA” National Education Leadership Award.
- **“Detecting Near Duplicate Web Documents in Crawling”** published in CONVERG – 2K8 A National Conference on Research Trends in Information Technology

Organised by SRKR Engineering College Bhimavaram, AP during 22-23 Feb 2008. The paper has been received **Best Paper Award**.

Research and Consultancy Projects

- Co – Investigator for DST Project “Study of Neuro Medical Diagnostics of Cognitive Impairment in case of Parkinson Disease Using Real-Time Multi-Channel Microelectrode Neural Recording System”
- Associate Investigator for CodeNow-Digital Learning Platform (DLP) by KODNV Software Solutions from 05/07/2018 to 04/07/2019.
- Associate Investigator for Consultant Trainers at Coign Technology by Coign Consultants Pvt. Ltd. in **04/06/2018 to 25/07/2019**.
- **Principal Investigator for Academic Management Systems by PDQ Softech from 02/09/2016 to 30/06/2017.**
- Seminar grant organized by AICTE in 2009 with 2.5 Lakh rupees.
- Principal Investigator for the MODROBS Project (**MODERNISATION & REMOVAL OF OBSOLESCENCE**) for an amount of **Rs 10,00,000/-**

Patents Published

- Dr. V. A. NARAYANA, R. Dinesh, Narasingoju Jhansi Prasad, Vinay Bura and Anil Gunde “WASTE MANAGEMENT SYSTEM AND METHOD EMPLOYED THEREOF” Application No. 202041039054 A, Date of filing of Application : 10/09/2020 Publication Date : 25/09/2020
- Dr. V. A. NARAYANA, K SAI CHARAN REDDY, A. HARISH, K. SWAPNA, B. CHAKRADHAR and Dr. K. L. S SOUJANYA “SYSTEM AND METHOD FOR TRAFFIC CONTROL” Application No. 202041038883A, Date of filing of Application : 09/09/2020 Publication Date : 25/09/2020
- B. LALITHA SRI, Dr. V. A. NARAYANA, N PRUDHVI KUMAR REDDY, Dr. M. NAGARAJU NAIK and A. VIVEKANANDA “ROBOTIC PEN” Application No. 202041038885A, Date of filing of Application : 09/09/2020 Publication Date : 25/09/2020
- GUDURU VINAY, Dr. V. A. NARAYANA, SANKARA RAO CHINTHA GUNTALA, K. JAYA PRAKASH REDDY and Dr. K. SURESH “CUTTER DEVICE FOR REMOVING INVASIVE PLANT SPECIES” Application No. 202041038054 A, Date of filing of Application : 03/09/2020 Publication Date : 11/09/2020

- DEVINENI PAVAN,Dr. V. A. NARAYANA,Dr. Deva DasuGhanta andDr. Suresh Merugu, , “DEVICE AND METHOD FOR POWER SUPPLY THROUGH AIR AS THE MEDIUM” Application No.202041037903 A, Date of filing of Application :02/09/2020 Publication Date : 11/09/2020
- Dr. V. A. NARAYANA,MOHAMMED AZHARUDDIN,BODDU NIKHIL,Prof.G.DEVADASS and Dr.R.ANAND “ MOTORIZED WHEEL CHAIR FOR THE DIFFERENTLY ABLED” Application No.201941024426A,Date of filing of Application :19/06/2019 Publication Date : 28/06/2019
- MD. SAMEER ,K. SRINIVASULU ,Dr. V. A. NARAYANA and Dr. K SURESH “DYNAMIC ANALYSIS OF EARTHQUAKE RESISTANT STRUCTURES” Application No.201841045457A, Date of filing of Application :01/12/2018 Publication Date : 07/12/2018
- G NEERAJA ,G ANIL ,D AJAY ,Dr. V. A. NARAYANA and Dr. M VENKATESWARLU “SYSTEM AND METHOD FOR COMPLEX MATERIAL DECOMPOSITION” Application No.201841045164A, Date of filing of Application :29/11/2018 Publication Date : 07/12/2018
- Dr. SURESH MERUGU,Dr. KAMAL JAIN,ANUJ TIWARI, Dr. V. A. NARAYANA and CH. GOPAL REDDY “METHOD OF EDGE PRESERVATION IN IMAGES” Application No.201841036623 A,Date of filing of Application :28/09/2018 Publication Date : 05/10/2018.
- SUBHAM RUDRESH MISHRA,S.SANJEEV BHARADWAJ,B. SURESH RAM, Major Dr.V.A Narayana andDr.B.SVarma “ADVANCED SAFETY SYSTEM FOR AUTOMOBILES AND METHODS EMPLOYED THEREOF” Application No.201741039537A Date of filing of Application :06/11/2017 and Publication Date : 17/11/2017.
- V.A. Narayana, P. Premchand and A. Govardhan, “A Novel Method and System for Detecting Near Duplicates for both Web Documents and Normal Documents” Application No. 627/CHE/2014 A for patent filed on 11 Feb 2014 and officially published in Official Journal of the Patent Office Issue No 08/2014 dated 21/02/2014, Publication of the Patent Office.

Research publications

International Journals

- Naveen Kumar, V.A Narayana “Comparison of Algorithms to Detect near Duplicate Documents with Keywords” published in International Journal of Management, Technology and Engineering volume IX, Issue V, May/2019.
- MD Zaheer, V.A Narayana, G Sreevani “A Strategy for Near – Duplication Web Documents Considering Both Domain & Size of the Document” published in International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume -8 Issue-4S2 March, 2019.
- SravanthiGoli, V.A Narayana “An Efficient approach for detection of near documents by considering both the text & images “accepted in a Scopus Indexed journal JARDCS 2018.
- AlekhyaYada, Siva SkandhaSanagala, Vijaya Kumar Koppula, V.A Narayana, “Investigation on Different Techniques for duplication in Cloud Storage” published in a Scopus Indexed journal IJCIET volume 9, Issue 2, February 2018.
- V.A. Narayana ,G.Ramakrishna, Ch.Abhinav "DECEPTIVE CALL RECOGNITION IN A NETWORK USING MACHINE LEARNING" is published in Scopus-indexed "ActaTechnica CSAV" 2018.
- E.Jagadeeswararao, K.Manasa, Dr.V.A.Narayana , “The knowledge based cross domain recommender system for social domains” published in a Scopus Indexed journal JARDCS Issue 14, 2017.
- Y. Eshwari, K.VenkateswaraRao, Dr.V.A. Narayana, “CONSIDERING THE ACQUAINTANCE OF PERSONALITY CLASSIFICATION BASED ON TWITTER TEXT” published in a Scopus Indexed journal JARDCS Issue-18, 2017.
- V.A. Narayana, P. Premchand and A. Govardhan, “Performance and Comparative Analysis of the Two Contrary Approaches for Detecting Near Duplicate Web Documents in Web Crawling” International Journal of Computer Applications Volume 59 Number 3 (ISBN: 973-93-80871-73-5), 2012 pp 22-29 Published by Foundation of Computer Science, New York, USA.
- Vivekananda, B. Sivaiah, V.A. Narayana, D. Komali and SK. KhajaShareef, “Multiplexed Chart Application”, Special issue of International Journal of Computer Science & Informatics (IJCSI), Vol II, Issue -1,2, ISSN (PRINT) : 2231 – 5292.
- SahulAhamad. N, V.A. Narayana, J. Sirisha Devi, P. Soujanya and K. Kavitha, “Implementation of MHMIP and comparing the performance with MIP and DHMIP in

Mobile Networks”, Volume 3, Issue 1,2012, pp 59 -64, ISSN (Online) : 2231-0371, ISSN (Print) : 0975-7449.

- V.A. Narayana, P. Premchand and A. Govardhan, "EffectiveDetection of Near-Duplicate Web Documents in Web Crawling", International Journal of Computational Intelligence Research, vol.5, no.1 ,pp. 83–96, 2009.
- V.A. Narayana, P. Premchand and A. Govardhan, “A novel and efficient approach for near duplicate page detection in web crawling” inIEEE International Advance Computing Conference, IACC 2009 pp.1492-1496.

International Conferences

- Dr.V.A. Narayana, “Novel approach for detecting near duplicate documents by considering image text size and domain of the documents” 2nd International Conference on Advances in Computing and Communication Technologies – ICACCT 2019978-81-923249-5-1.
- Dr.V.A. Narayana, “Plant Disease Classification and Identification using Indian Leaf Images by Using Deep Learning” 2nd International Conference on Advances in Computing and Communication Technologies – ICACCT 2019978-81-923249-5-1.
- Dr.V.A. Narayana, Framework for proficient proof of identity of duplicate and near-duplicate images and image distances using high-disguisable image fragmentFifth International Conference on Parallel, Distributed and Grid Computing (PDGC) 978-1-5386-60263.
- Gaddamidhisreevani, Dr.V.A. Narayana, Dr.K.Srujan Raju, “An Ameliorate Approach for Near Duplicate Page Detection Considering Synonyms of Keyword” Published in ICACCT -2018.
- MD Zaheer, Dr.V.A. Narayana, Gaddamidhisreevani, “A Strategy for detecting Near-Duplicate Web Documents Considering both size of the Document & Domain” Published in ICACCT -2018.
- Dr.V.A. Narayana “Dynamic Monitoring Of Near Duplicate Database Instances On The Web Channels” Published in ICACCT -2018.
- Gaddamidhisreevani,Dr.V.A. Narayana, Dr.AnuradhaBoya “STATE-OF THE-ART: NLP amazing applications of deep learning “Published in ICACCT -2018.

- V.A. Narayana, P. Premchand and A. Govardhan, “Near-Duplicate Web Page Detection: A Comparative Study of Two Contrary Approaches” Paper published in proceedings of 6th International Conference on Computer Sciences and Convergence Information Technology, Jeju Island, Korea from 29 Nov - 01 Dec 2011. **Indexed in IEEE XPLORE**.pp 769-776.
- V.A. Narayana, P. Premchand and A. Govardhan, “To Create A Confusion Matrix in Respect of Threshold Being Fixed for Effective Detection of Near Duplicate Web Documents in Web Crawling” Paper published in proceedings of 6th International Conference on Computer Sciences and Convergence Information Technology, Jeju Island, Korea from 29 Nov - 01 Dec 2011. **Indexed in IEEE XPLORE**.pp 763-768.
- V.A.Narayana, P.Premchand and A.Govardhan, (2010) ”Fixing the Threshold for Effective Detection of Near Duplicate Web Documents in Web Crawling”. Proceedings of 6th International Conference on Advanced Data Mining and Applications, Chongqing University, China Published in **LNCS of SPRINGER** in volume 6440/2010 pp 169-180.
- V.A.Narayana, P.Premchand and A.Govardhan, (2009)” A Novel and Efficient Approach For Near Duplicate Page Detection in Web crawling” pp 3310-3314. **IEEE International Advance Computing Conference. Indexed in IEEE XPLORE.**
- **“System and Method for detecting duplicate and similar documents”** published in the proceedings of International conference on Emerging & Futuristic System and Technology Sponsored by The Institution of Engineers (India), Rajasthan State Centre, Jaipur Organised by Laxmi Devi Institute of Engineering & Technology, Alwar during 09-11 April 2009.
- **“Detecting Near Duplicate Web Documents in Crawling published”** in CONVERG – 2K8 A National Conference on Research Trends in Information Technology Organised by SRKR Engineering College Bhimavaram, AP during 22-23 Feb 2008. The paper has been received **Best Paper Award**.
- **“Recognize the Fraudulent Data using Detection Mechanism Strategies”**, 2nd National Conference on Research Trends in Computer Science and Technology.

Books Published

- C Programming, Data Structures text bookswere published by Glaze Publisher.
- C Programming, Data Structures and IT Workshop Lab Manualswere published by Glaze Publisher.

Research Guidance

- Currently guiding 2 M.Tech and 1 Ph.D. Scholar under JNTU Hyderabad.
- Twenty Two M.Tech projects were guided and thesis submitted and degree awarded.

Research Highlights

Detection of Near Duplicate Documents and duplicate web documents has become famous in the recent years among the research groups. A lot of survey has brought together lots of works which has been done on Near Duplicate Documents. Various techniques and algorithms for Near Duplicate Detection given by researchers have been presented. Here, the review is systematically arranged in terms of similarity based techniques, signature based techniques, query dependent techniques, weighting methods along with some other random techniques. G.S. Manku et al's fingerprint based approach which is a similarity based technique proposed in 2007 was considered as one of the "state-of-the-art" algorithms for finding near-duplicate web pages.

In this research, an efficient approach for the detection of near duplicate web pages in web crawling which uses keywords and the distance measure has been presented. The near duplicate web pages are detected followed by the storage of crawled web pages in to repositories. The keywords are extracted from the crawled pages initially and on the basis of the extracted keywords, the similarity score between the two pages is calculated. The documents are considered as near duplicates if its similarity score is lesser than a threshold value. Extensive experiments have been conducted and fixed the threshold value. Computation time and Memory for repositories has been reduced and the search engine quality has been improved owing to the detection.

Our proposed algorithm was implemented and was compared with GS Manku et al's finger based approach and was found that our proposed approach has better performance than Manku et al's approach.

Conferences / FDPs / Workshops / Seminars etc Conducted

- Organized 2nd International Conference on Advances in Computing and Communication Technologies – ICACCT 2019.

- Organized International Conference on Advances in Computing and Communication Technologies – ICACCT 2018.
- Conference Chair for Two International Conferences, Patron for Five International Conferences and Patron for Two National Conferences.
- Nodal Principal for “**SMART INDIA HACKATHON 2019**” **Grand Finale Software Edition** on 2nd& 3rd March 2019 and “**SMART INDIA HACKATHON 2018**” on 30th&31st March 2018 which were conducted in CMR College of Engineering & Technology.
- Organized 34 FDPs ranging from two days FDP to 3 weeks FDP.
- Organized 20 Workshops / Seminars.

FDPs / Workshops / Refresher Courses / Seminars Attended

- FDP on Artificial Intelligence and Deep Learning from 15-6-2020 to 27-6-2020 conducted by CMRCET, Hyderabad.
- Online workshop on Python from 18-5-2020 to 30-5-2020 conducted by CMRCET, Hyderabad.
- An on line workshop on Inculcating Universal Human Values in Technical Education 2-5-2020 to 6-5-2020 conducted by AICTE, New Delhi.
- One Week FDP on AI using ML and DL from 21-5-2018 to 25-5-2018 conducted by CMRCET, Hyderabad.
- FDP on Role of Teachers in changing Times, Mentoring and Nurturing from 17th to 21st April 2018.
- Workshop on Soft Computing Techniques in Image processing held for 10 days at G Narayanamma Institute of Technology and Science, Hyderabad.
- Campus Connect Faculty Enablement Programme conducted at BVRIT, Hyderabad for two weeks.
- Faculty Development Programme on Network Programming conducted at CVR College of Engineering Technology, Hyderabad for 10 days.
- Faculty Development Programme on Data Mining Tools conducted at Anurag Group of Institutions for two weeks.
- Faculty Development Programme on Linux Programming conducted for two weeks at MGIT, Hyderabad.
- FDP on Research Proposals Funding Agencies, Opportunities and Methodologies from 14-11-2015 to 20-11-2015 conducted by CMRCET, Hyderabad.

- One Week FDP on Mobile Computing from 07-07-2015 to 11-07-2015 conducted by CMRCET, Hyderabad.
- One Week FDP on Data warehousing and Business Intelligence (DWBI) from 11-05-2015 to 15-05-2015 conducted by CMRCET, Hyderabad.
- Two Week Workshop on Design Analysis of Algorithms from 18-5-2015 to 30-5-2015 conducted by GRIET, Hyderabad.
- One Week FDP on Database Security from 13-04-2015 to 17-04-2015 conducted by CMRCET, Hyderabad.
- One Week FDP on Database Management Systems from 16-06-2014 to 20-06-2014 conducted by CMRCET, Hyderabad.
- Workshop on Research issues in Software defined Networks conducted by Government College of Technology, Coimbatore for one week.
- Refresher Course on The Current Technology Trends in Information Technology conducted 3 weeks at JNTUH College of Engineering, Hyderabad.
- Workshop – Unleash the true potential of a professor one day programme held at CMRIT.

Professional Memberships

- Fellow Institution of Engineers (India)
- Member CSI
- Member ISCA
- Member ISTE

Date of Birth: 27th June 1972

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References: Available on Request