

Dr. Konda Chaitanya B.Tech (CSE), M.Tech (CSE), Ph.D (CSE)

Assistant Professor

Department of CSE

Dr YSR ANU College of Engineering & Technology

Acharya Nagarjuna University

Nagarjuna Nagar, Guntur

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Academic Qualifications:

Ph. D - Computer Science & Engineering, “**An Enhanced Approach for Detection and Recovery of Tampered Blocks in Medical Images**”, Acharya Nagarjuna University, 2019.

M. Tech - Computer Science & Engineering, First Class & Distinction(78%), Nalanda Institute of Engineering & Technology, Sattenapalli, Guntur, India,2007-2009.

B.Tech - Computer Science & Engineering, First Class with Distinction(73%), Nalanda Institute of Engineering & Technology, Sattenapalli, Guntur, India,2001-2005.

Previous Experience:

1. Assistant Professor, Department of Computer Science and Engineering, Nalanda Institute of Engineering and Technology, Guntur, A.P., India, 7/2006 to 4/2007.
2. Computer Programmer, Department of Computer Science and Engineering, ANU College of Engineering and Technology, Acharya Nagarjuna University, Guntur, 09/2009 to 08/2010.
3. Assistant Professor, Department of Computer Science and Engineering, ANU College of Engineering and Technology, Acharya Nagarjuna University, Guntur, 11/09/2010 to till date.

Subjects Handled in the Department:

- C Programming
- PYTHON Programming
- Java Programming

- Data Structures and Algorithms
- Advanced Data Structures
- Design & Analysis of Algorithms
- Design & Analysis of Parallel Algorithms
- Multimedia
- Digital Image Processing
- Operating Systems
- Web Technologies

Research Interests:

Digital Image Processing, Artificial Intelligence & Machine Learning, Deep Learning

Research Activities:

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|---------------------------------------|------|
| 1. No of journal papers published | : 13 |
| 2. No of conference papers presented | : 2 |
| 3. No. of workshops , FDP's Organized | : 10 |
| 4. Guest Lectures | : 1 |
| 5. Acted as Resource Person | : 7 |

Other Services to the Profession:

1. **Lesson Writer** of study material of MCA, II Semester, Paper III, "Data Structures Using C++ material and Lab manual" for ANU Online Programs, International Students Cell, Acharya Nagarjuna University, **2015**.
2. **Lesson Writer** of study material of M.Sc. IT II year, III semester, Paper IV, "Object Oriented programming using JAVA and Lab manual" for ANU Online Programs , International Students Cell, Acharya Nagarjuna University, 2015.

Journals:

1. Chaitanya, K., Dr. E. Sreenivasa Reddy, and Dr. K. Gangadhara Rao. "Digital Color Image Watermarking using DWT-DCT Coefficients in RGB Planes." On Global Journal of Computer Science and Technology Volume 13 Issue 5 Version 1.0 Year 2013.
2. Chaitanya, K., Dr. E. Sreenivasa Reddy, and Dr. K. Gangadhara Rao. "Digital Color Image Watermarking In RGB Planes Using DWT-DCT-SVD Coefficients" On International Journal of Computer Science and Information Technologies, Vol. 5 (2) , 2014.

3. Y. Nagarjuna, K.Chaitanya. "Digital Image Watermarking using Modified DWT & DCT Combination and Bi Linear Interpolation." International Journal of Advanced Research in Computer and Communication Engineering, Vol. 5(8), 2016.
4. Y. Usha Madhuri, K. Chaitanya. "Reversible watermarking technique for data hiding, accurate tamper detection in ROI and exact recovery of ROI", IJARCCCE, 2016.
5. L.Vijaya Sree, K.Chaitanya."Color Image Indexing by Exploiting the simplicity of the EDBTC Method." International Journal of Research 2017.
6. T. Chaitanya Reddy, K. Chaitanya, "Ranking of Images Based on Tags", International Journal of Computer Science Trends and Technology 2017.
7. Sajjad Shaik, K.Chaitanya. "A novel approach to IRIS Recognition based on Feature level fusion using Classification Techniques." International Journal of Scientific Development and Research 2017.
8. K.Chaitanya, Dr. K.Gangadhara Rao, Dr. E. Sreenivasa Reddy. "A Blind Watermarking Algorithm based on DWT-DCT using Gold Sequence Generator." Advances in Computational Sciences and Technology, 2017.
9. K.Chaitanya, Dr. K.Gangadhara Rao." A Novel Approach to Medical Image Watermarking for Tamper Detection and Recovery of Region of Interest Using Predictive Coding and Hashing." Journal of Theoretical and Applied Information Technology, Vol 96 No.7 15-04-2018.
10. K.Chaitanya, Dr. K.Gangadhara Rao." A Novel Approach to Medical Image Watermarking for Tamper Detection and Recovery of Region of Interest Using Block Compression and Checksum." International Journal of Engineering and Technology 2018.
11. S.Arogya Manogna, K.Chaitanya. " A Color Image Watermarking Scheme Based on QR Factorization , Logistic and LorentzChaotic Maps." IJSDR , July 2018.
12. P.Ramya Rani, K.Chaitanya. " Cryptographic Transmission for Secured Medical Images using DWT, DCT and SHA." IJSART, July 2018.
13. A.Padmaja, Dr K.Chaitanya."K-Means automatic image segmentation using wavelets."Alochana Chakra Journal, November 2020.

Conferences:

1. “Wavelet Transform Based Texture Feature for Content Based Video Retrieval” in the International Conference on Navigational Systems & Signal Processing Applications 2013 on 13th, 14th December 2013, Organized by University College of Engineering & Technology, Acharya Nagarjuna University.
2. “Digital Color Image Watermarking in RGB planes using DWT-DCT-SVD Coefficients” in the National Conference on Recent Trends in Information Technology 2014 on 22nd march 2014, Organized by PVP Siddhartha Institute of Technology, Vijayawada.

Guest Lectures:

1. Given a **Guest lecture** on **Data Structures**, Organized by PVP Siddhartha Institute of Technology, and Vijayawada on 21-01-2016.

Acted As A Resource Person:

1. 1. Acted as a Resource Person for Two day residential programme on Internet of Things Organized by APHRDI, State Government of Andhra Pradesh on 12-12-2016.
2. Acted as a Resource Person for Two day training programme on “Internet of Things” Organized by Department of CSE, Kallam Haranatha Reddy Institute of Technology held from 10-1-2017 to 11-1-2017.
3. Acted as a Resource Person for Two day residential programme on “Internet of Things for Different Departments” on the topic of Sensors, Arduino Programming and Architecture Organized by APHRDI, Srikalahasti, State Government of Andhra Pradesh from 20-07-2017 to 22-07-2017.
4. Acted as a Resource Person for Two day state level workshop on “Internet of Things” Organized for students of Government Degree College on 30-01-2018 & 31-01-2018.
5. Acted as a Resource Person on the topic Applications of AI in farming at Three day training programme on “Machine Learning and Artificial Intelligence in Agriculture Sector” on 1-3February 2018 at APHRDI Bapatla.
6. Acted as a Resource Person on the topic Applications of AI in Fisheries at Three day training programme on “Machine Learning and Artificial Intelligence in Agriculture Sector” on 1-3February 2018 at APHRDI Bapatla.

7. Acted as a Resource Person for One day National Level Workshop on “Internet of Things” Organized by Sri ASNM Government Degree College, Palakol, West Godavari Dist, on 15-03-2019.
8. Acted as a Resource Person for 3-day online training programme on “Administrative functions of Supporting staff of the senior functionaries” on the topic **IT Awareness** Organized by APHRDI, Government of Andhra Pradesh from 21-12-2020 to 23-12-2020.
9. Acted as a Resource person for 3-Day UGC sponsored hands-on Faculty Development Training Program on “Machine Learning Concepts and its Applications Using PYTHON” on the topic Data Preprocessing , Organized by Department of CSE, Dr YSR ANU College of Engineering & Technology, ANU from 27-01-2023 to 29-01-2023.

Workshops and Conferences attended:

1. Attended a National Seminar on Image Processing & Applications Organized by University College of Engineering & Technology, Acharya Nagarjuna University on December 3rd,v4th 2011.
2. Attended a National Seminar and Workshop on Bioinformatics: Basics & Languages Organized by Department of Biotechnology, Acharya Nagarjuna University on March 27th-29th 2012.
3. Attended a 3 day hands-on training program on Digital Image Processing & Pattern Recognition Using Matlab Organized by Department of CSE, Siddhartha Engineering College, Vijayawada on July 4th – 6th 2013.
4. Attended a Workshop on E-Content Development organized by Acharya Nagarjuna University on 14th & 15th February 2014.
5. Attended a National Seminar on Recent Trends in Digital Image Processing & Applications Organized by Department of MCA, Yogi Vemana University, Kadapa on February 17th & 18th 2014.
6. Attended a 5-Day Workshop on Business Intelligence & Information Security Organized by Department of IT, Siddhartha Engineering College, Vijayawada on July 22nd-26th 2014.
7. Attended a Workshop on Big Data Analytics on 20th Oct 2014 organized by Department of Statistics, Acharya Nagarjuna University.

8. Attended a Workshop on Big Data Analytics on 9th – 10th Dec 2014 organized by Department of CSE, ANUCET, Acharya Nagarjuna University.
9. Attended a National Workshop on Applications of Mathematics in computer science 20th - 21st Feb 2015.
10. Attended a 5-Day workshop on Intelligence and Information security, 22-26th July 2014, Teqip-II S.C.1.2, VR Siddhartha, Vijayawada.
11. Attended a One day workshop on Establishment of smart campuses, organized by Dept. of Higher education, Govt. of AP in association with ANU, at ANU on 29-04-2015.
12. Attended a 21-day training program on geo spatial technologies under NRDMS program, University College of engineering & technology, Acharya Nagarjuna University, Guntur on Oct 2015.
13. Attended 3 day training program on Hands on Evolutionary Algorithms using MATLAB Organized by PVP Siddhartha Institute of Technology, Vijayawada from 10-9-2015 to 12-9-2015.
14. Given a Guest lecture on Data Structures, Organized by PVP Siddhartha Institute of Technology, and Vijayawada on 21-01-2016.
15. Attended a UGC sponsored national conference on Internet of Things on 3-4th march 2016 at ANU.
16. Attended One day workshop on “SCOPUS-Research management and publishing tool” by Mr. Vijay Reddy, South Asia Consultant, Elsevier on 13-6-2016 at ANU.
17. Attended a hands on workshop on “Artificial Intelligence and Deep Learning” by Dr. Deepak Garg, at CMR College of Engineering and Technology, Hyderabad from July 14th 2018 to July 16th 2018.
18. Attended a Training programme on NBA Accreditation and SAR Preparation Organized by NITTTR, Kolkata from 21-01-2019 to 25-01-2019.
19. Participated in the Webinar on “Successful Steps Towards High Quality Scientific Publications” Organized by Chalapathi Institute of Engineering & Technology on 18-05-2020.
20. Attended a 5-Day Workshop on “Data Science Using PYTHON” Organized by Department of CSE, Chalapathi Institute of Engineering & Technology in collaboration with CSI from 22-06-2020 to 26-06-2020.

21. Participated in “One week national workshop on AI & ML” Organized by Department of CSE, Chalapathi Institute of Engineering & Technology 13-07-2020 to 18-07-2020.
22. Participated in the Online Faculty Development Programme on Data Science from 24-08-2020 to 28-08-2020 Organized by Centre for Data Science and Artificial Intelligence , Rajalakshmi Institute of Technology in association with Computer Society Of India.
23. Attended AICTE Sponsored Online short term Training Program on “ Building Intelligent Applications with Deep Learning using PyTorch” organized by Department of CSE, Rajalakshmi Institute of Technology, Chennai from 12-10-2020 to 17-10-2020.
24. Attended a Webinar on “Exploring Internet and Innovation” Organized by Department of CSE, Chalapathi Institute of Engineering & Technology on 18-06-2021.