

## RESUME

Dr. P. Chenna Reddy  
Professor  
Department of Computer Science and Engineering  
JNTUA College of Engineering, Anantapur  
Andhra Pradesh, INDIA  
Mobile: 094410 34797  
Email: pcreddy1@rediffmail.com, chennareddy.cse@jntua.ac.in

---

### PERSONAL DETAILS

Father's Name : Sri P. Ramachandra Reddy  
Date of Birth : 16-03-1973  
Marital status : Married  
Gender : Male  
Nationality : Indian

### ABSTRACT OF THE ACHIEVEMENTS

|                                  |  |
|----------------------------------|--|
| <b>Highest Qualification</b>     | Ph.D   |
| <b>Total Teaching Experience</b> | 28 years   |
| <b>Positions Held</b>            | <ul style="list-style-type: none"><li>• Principal, JNTUA College of Engineering, Anantapur</li><li>• Director , Skill Development Centre and Incubation Centre</li><li>• Director, Academic Audit</li><li>• Director, Industrial Relations and Placements</li><li>• Director School of Distance Education</li><li>• Board of Studies Chairman</li><li>• Head of the Department</li><li>• Deputy Warden</li></ul> |
| <b>State Level Committees</b>    | <ul style="list-style-type: none"><li>▪ University Co-ordinator for “Gnana Bheri - Global Competitiveness for Capacity Building”</li><li>▪ Member of State level Joint Working Group of Pradhana Manthri Yuva Yojana</li></ul>   |

|                      |  |
|----------------------|--|
| <b>Publications</b>  | ▪ Journals: 114 , Conference Proceedings 59, Patents: 1, Text books: 5 |
| <b>Ph.Ds Awarded</b> | 21   |

## EDUCATION

- B.Tech, Computer Science and Engineering, S.V. University College of Engineering, Tirupati
- M.S., Software systems (DLPD), BITS, Pilani
- M.Tech, Computer Science and Engineering, JNTU, Hyderabad
- Ph.D, Computer Science and Engineering, JNTUH, Hyderabad

## WORK EXPERIENCE

### A. Teaching Experience: 27 years 4 months

|                         |  |
|-------------------------|--|
| 27-08-1996 : 31-07-1997 | Adhoc Teaching Assistant, Department of Computer Science and Engineering, G.Pulla Reddy Engineering College, Kurnool |
| 01-08-1997 : 14-04-1998 | Adhoc Lecturer, Department of Computer Science and Engineering, G.Pulla Reddy Engineering College, Kurnool           |
| 15-04-1998 : 11-10-2000 | Assistant Professor, Department of Computer Science and Engineering, G.Pulla Reddy Engineering College, Kurnool      |
| 12-10-2000 : 06-11-2006 | Assistant Professor, Department of Computer Science and Engineering, JNTU College of Engineering, Anantapur          |
| 07-11-2006 : 06-11-2012 | Associate Professor, Department of Computer Science and Engineering, JNTUA College of Engineering, Pulivendula       |
| 07-11-2012 : 17-02-2016 | Professor, Department of Computer Science and Engineering, JNTUA College of Engineering, Pulivendula                 |
| 18-02-2016 : 21-07-2019 | Professor, Department of Computer Science and Engineering, JNTUA, Anantapur  |
| 22-07-2019 : Till date  | Professor, Department of Computer Science and Engineering, JNTUA College of Engineering, Anantapur                   |

## **B. Administrative Experience/Responsible positions held**

- Serving as Principal, JNTUA College of Engineering, Anantapur from Aug. 15<sup>th</sup>, 2024
- Served as Board of Studies Chairman for CSE (AI), CSE (AI & ML), CSE (IoT), CSE (DS), and AI&DS from 24-09-2021 17-Aug-2024.
- Served as Director, Skill Development Centre and Incubation Centre from 04-04-2018, to 22-07-2019.
- Served as Director, Industrial Relations & Placements and School of Continuing & Distance Education, JNTUA, Ananthapuramu from 18-02-2016 to 15-10-16.
- Served as Director, Academic Audit, JNTUA, Ananthapuramu from 13-10-2016 to 04-04-2018 2018.
- Served as Incubation Coordinator, JNTUA, Ananthapuramu for one year.
- Served as Deputy Warden for four years at JNTUA College of Engineering, Anantapur
- Served as Head of Computer Science and Engineering Department for five years at JNTUA College of Engineering, Pulivendula.
- Served as Board of Studies Chairman for Computer Science and Engineering Branch of JNTUA, Anantapur.
- Served as Board of Studies Chairman for Information Technology Branch of JNTUA, Anantapur for four years
- Served as a Member of PG Board of Studies for Computer Science and Engineering department of JNTUA, Anantapur for four years.
- Served as Board of Studies Chairman for Computer Science and Engineering of Rayalaseema University, Kurnool.
- Served as Board of Studies Member of Computer Science and engineering department of G. Pullaiah College of Engineering (Autonomous), Kurnool
- Served as Board of Studies Member of Computer Science and engineering department of Sri. Vidyanikethan College of Engineering (Autonomous), Tirupati.
- Serving as Board of Studies Member of Computer Science and engineering department (Computer Science and Engineering, CSE (AI), CSE (Data Science)) of Adi Sankara College of Engineering, Gudur, Nellore District.
- Serving as Board of Studies Member of Computer Science and engineering department (CSE (AI and ML)) of SV College of Engineering, Tirupathi.
- Serving as Board of Studies Member of Computer Science and engineering department of JNTUA College of Engineering, Pulivendula.

- Served as Board of Studies Member of Computer Science and engineering department of KSRM College of Engineering (Autonomous), YSR Kadapa.
- Served as Board of Studies Member of Computer Science and engineering department of Madanapalle Institute of Technology and Science (Autonomous), Madanapalle
- Served as Board of Studies Member for Computer Science and Engineering Department of S.K.University, Anantapur.
- Served as Board of Studies Member for Computer Science and Engineering Department of G.Pulla Reddy Engineering College (Autonomous), Kurnool.
- Served as Board of Studies Member for Master of Computer Applications Department of Annamacharya Institute of Technology and Science (Autonomous), Rajampet.
- Served as Board of Studies Member for Computer Science and Engineering Department of Annamacharya Institute of Technology and Science (Autonomous), Rajampet.
- Served as Board of Studies Member for Computer Science and Systems Engineering Department of Sri. Vidyanikethan Engineering College, Tirupati.
- Served as Board of Studies Member for Computer Science and Systems Engineering Department of Sri. Padmavathi Mahila Visvavidyalayam, Tirupati.
- Served as Board of Studies Member of MCA and M.Sc. Computer Science of Yogi Vemana University, Kadapa.
- Served as Governing Body Member of Sri. Sai Institute of Technology and Science, Raychoty.
- Served as Governing Body Member of Annamacharya Institute of Technology and Science, Tirupati.
- Served as Governing Body Member of Srinivasa Institute of Pharmaceutical studies, Prodattur
- Served as Governing Body Member of Madhura Sai Institue of IT and Management, Prodattur
- Served as University Nominee for Result committee of Sri. Vidyanikethan Engineering College, Tirupati
- Served as University Nominee for Result committee of Madanapalli Institute of Technology and Science, Madanapalli.
- Served as University Nominee for Ratification interviews of KSRM College of Engineering, YSR Kadapa.
- Served as Board of Studies Chairman of CSE Board of Rayalaseema University, Kurnool.
- Serving as Board of Studies Chairman of Computer Science Board of Rayalaseema University, Kurnool.

- Served as University Nominee for Result committee of NBKR Institute of Science and Technology, Vidyanagar, Kota, SPSR Nellore District.

## **MEMBERSHIP IN STATE LEVEL BODIES**

- As per G.O.Rt.No. 167 dated 31/07/2018, appointed as University Co-ordinator for “Gnana Bheri - Global Competitiveness for Capacity Building” as part of which Hon’ble Chief minister of AP visited all universities in 13 Districts of AP from August 2018.
- As per G.O. No. 1 dated 08/05/2018, LR.No.78/SDEI Dept/ 2018, 13-06-2018, Participated in First meeting of State level Joint Working Group of Pradhana Manthri Yuva Yojana on 20/06/2018 held at AP Secratariat, Velagapudi.
- Acted as Convener for the Institutions Innovation Council of JNTUA established under the aegis of MHRD Innovation cell during the academic year 2018-2019.
- Acted as Advisor for the Institutions Innovation Council of KSRM College of Engineering, Kadapa established under the aegis of MHRD Innovation cell during the academic year 2018-2019.

## **ORIENTATION/REFRESHER/TRAINING COURSES ATTENDED**

1. A 3-week UGC Sponsored Orientation course on Value Education from 17-01-2005 to 12-02-2005 at UGC Academic staff college, JNTUH, Hyderabad.
2. A 3-week UGC Sponsored Refresher course on Network Programming from 29-10-2003 to 18-11-2003 at UGC Academic staff college, JNTUH, Hyderabad.
3. A 3- week UGC Sponsored Refresher course on VLSD Design from 03-06-2002 to 22-06-2002 at UGC Academic staff college, JNTUH, Hyderabad.
4. A 1-week Training Course on IBM Rational Rose Software at JNTUA College of Engineering, Pulivendula
5. A 1-day National Workshop on “Technology trends in Mobile Computing and Communications”, on April. 10<sup>th</sup>, 2004 at Indian Institute of Information Technology, Bangalore
6. A 1-day National Seminar on “Intellectual Property rights-Academic and Technological Dimensions (An Indian Perspective)”, on January 11<sup>th</sup>, 2006 at JNTUH, Hyderabad
7. A 2-day “National programme (workshop) on Technology Enhanced Learning (IIT Madras)” on 31-08-2012 and 01-09-2012 at NIT, Warangal
8. A 1-day Phase-I workshop on “Training Resource Persons on Outcome Based Accreditation”, on 29<sup>th</sup> April, 2013 at JNTUA NBA Nodal Centre, Anantapuramu

9. A 3-day Phase-II workshop on “Training of Evaluators/Resource persons on Outcome Based Accreditation”, from 1<sup>st</sup> – 3<sup>rd</sup> July, 2013 at JNTUA NBA Nodal Centre, Anantapuramu
10. A 5-day workshop on “Managing Excellence in Academic Institutions for Heads of Institution/Department for TEQIP institutions”, from Sept. 30<sup>th</sup> to Oct.4<sup>th</sup>, 2013, at Administrative staff college of India, Bella Vista, Hyderabad.
11. A 2-day National level workshop on “Digital Image Processing and Pattern recognition using MATLAB”, from 24<sup>th</sup> – 25<sup>th</sup> Jan. 2014, at JNTUA College of Engineering, Pulivendula.
12. A one-week Intensive Training programme on “Incorporation of Pedagogy in Engineering Education”, from 3<sup>rd</sup> – 7<sup>th</sup> Feb. 2014, at IISC, Bangalore
13. A 3-day Workshop on “Cloud Computing in Academics and Research”, from 4<sup>th</sup> – 6<sup>th</sup> April, 2014 at JNTUA College of Engineering, Pulivendula, A.P.
14. A one-day IEEE Authorship Workshop on “How to Publish a Technical Paper with IEEE”, on 12<sup>th</sup> August, 2014 at the Indian Institute of Science, Bangalore.
15. A two-day IEEE Workshop on “IEEE Smart Tech – Internet of Things track” during 26<sup>th</sup> – 27<sup>th</sup> September, 2014 at Hotel Lalit Ashok, Bangalore organized by IEEE Bangalore Section.
16. A one-day workshop on “Learning Platform for Better Outcomes” conducted by ‘Inpods’ on January 5, 2015 as part of the Pre-conference Workshop activity of ICTIEE-2015 jointly organized by BMS College of Engineering and Indo-US Collaboration for Engineering Education (IUCEE).
17. A one-day workshop on “Automation of Curriculum Design & Attainment for OBE” conducted by ‘IonIdea Inc.’ on January 5, 2015 as part of the Pre-conference Workshop activity of ICTIEE-2015 jointly organized by BMS College of Engineering and Indo-US Collaboration for Engineering Education (IUCEE).
18. A one-day workshop on “Teaching and Learning” on January 6, 2015 as part of the Pre-conference Workshop activity of ICTIEE-2015 jointly organized by BMS College of Engineering and Indo-US Collaboration for Engineering Education (IUCEE).
19. A four-day workshop on “Cyber Security & Forensic Investigation” conducted by Engineering staff college of India, Hyderabad during July 27-30, 2015 at ESIC, Gachibowli, Hyderabad.
20. A four-week MOOC Course (Honor Code Certificate) on “Introduction to Cloud Computing” Offered by IEEEEx, an online learning initiative of IEEE through edX.
21. A one-day workshop on “Awareness on creating Centres of Excellence” conducted by JNTUA, Ananthapuramu on 26<sup>th</sup> June, 2015 at JNTUA College of Engineering (Autonomous), Ananthapuramu.
22. A 2-day workshop on “Teacher Effectiveness: Nurturing your well-being” on Dec 6<sup>th</sup> and 7<sup>th</sup> 2015 at IIT, Hyderabad.

23. An NPTEL Course (8 weeks) on “Entrepreneurship Essentials” with Consolidated Score of 94% which is offered by IIT Kharagpur and SWAYAM during February - April 2019. (Elite: Gold Certificate, Top 5 %)
24. A 2-day workshop on “Development of MOOCs and Production Techniques”, on Jan. 17-18, 2020 at JNTUACEA, Anantapur.
25. A Webinar on “Development of Rural Economy – Challenges and Opportunities”, on 27<sup>th</sup> July, 2020.
26. A Two-Week Faculty Development Program on “Mathematical Modeling and Simulation for Scientists & Engineers”, from 24-02-2020 to 07-03-2020, organized by JNTUACEA, Anantapur.
27. A One-day Faculty Development Program on “Awareness on OBE for Preparation and Applying to NAAC”, on 11<sup>th</sup> Nov. 2019, organized by JNTUACEA, Anantapur.
28. A Two-Week Faculty Development Program on “Internet of Things (IoT)”, from 1-6-2020 to 13-06-2020, organized by Andhra Pradesh State Skill Development Corporation (APSSDC).
29. Completed a Specialization on Virtual Reality, a MOOC course of Coursera organized by University of London, London which consists of the following five courses
  - a) Introduction to Virtual Reality
  - b) 3D models for Virtual Reality
  - c) 3D Interaction Design in Virtual Reality
  - d) Building Interactive 3D Characters and Social VR
  - e) Making your First Virtual reality Game
30. An NPTEL Course (12 weeks) on “Fundamentals of Artificial Intelligence” with Consolidated Score of 72% which is offered by IIT Kharagpur and SWAYAM during August - December 2020.
31. Five Day Innovation Series on “Patent Search and Filing” conducted by Turnip Innovations along with Andhra University during 16<sup>th</sup> -20<sup>th</sup> Feb. 2021.
32. A One-day Workshop on “Effective and Efficient Online Teaching” conducted by BodhiTree Platform: IIT Bombay.
33. An NPTEL Course (15 weeks) on “Digital Marketing” with Consolidated Score of 68% which is offered by Punjab University, Chandigarh and SWAYAM during August - December 2020.
34. A Two-week Faculty Development program “Effective Teaching Techniques” conducted by IIITD from Oct 10 to Oct 19, 2022.
35. A Semester-long FDP “Effective Teaching of Machine Learning” conducted from August to December 2022 with at total of 36 hours and 1.5 credits organized by CSEDU, IIITD, Delhi.
36. A One-day Training program on “IP Awareness” conducted by Institute for Academic Excellence, Hyderabad on December 15, 2022.

37. NPTEL Course completed successfully(12 week) with a consolidated score of 93% marks offered by Ramesh C Sharma of Dr. Babasaheb Ambedkar Open University, Ahmedabad on 01-12-2023.

### **CONFERENCES/WORKSHOPS ORGANIZED**

1. A 2-day National level Student Technical Symposium PIXEL – 2K5, in December, 2005 at JNTUA college of Engineering, Anantapur.
2. A 2-day National Workshop for staff, “Recent Trends in Computer Networks” in March, 2006 at JNTUA college of Engineering, Anantapur.
3. A 2-day Intra college Student Technical Symposium Sarvagnya - 2k8, in December, 2008 at JNTUA College of Engineering, Pulivendula.
4. A 3-day National Level Student Technical Symposium Sarvagnya – 2k10 in February, 2010 at JNTUA college of Engineering, Pulivendula.
5. A 2-day UGC Sponsored National Workshop for staff, “Research Trends in Computer Networks” on December, 21<sup>st</sup> and 22<sup>nd</sup>, 2011 at JNTUA College of Engineering, Pulivendula.
6. A 2-day National Conference for staff, “Communication, Networking and Mobile Computing” on January 20<sup>th</sup> and 21<sup>st</sup> 2012 at JNTUA college of Engineering, Pulivendula.
7. A one-day workshop on Entrepreneurship on March. 29<sup>th</sup>, 2016 at JNT University, Anantapur
8. A 3-day workshop Technical Expo for Startups-2k17 on Feb 17-19, 2017 at JNT University, Anantapur
9. A one-day University level Engineering TechFest-2k18 on Jan. 27<sup>th</sup>, 2018 at JNT University, Anantapur
10. A 3-day workshop on Entrepreneurship, Innovation, and Startups held between 29-31<sup>st</sup> August, 2018 at JNT University, Anantapur.
11. A one-day Andhra Pradesh Yatra BootCamp held on 31-08-2018 at JNT University, Anantapur.
12. A One Day Model Exhibition on the occasion of Hon’ble Chief Minister’s visit to KIA Motors Penukonda on Mar. 5<sup>th</sup>, 2018 at KIA Motors, Penukonda.
13. I- Made Digital Campus Initiative Workshop, Feb. 22<sup>nd</sup>, 2019 at JNT University Anantapur.
14. A one-day workshop on Cognitive Skills, Design Thinking and Critical Thinking, Feb 23<sup>rd</sup>, 2019 at JNT University Anantapur.
15. A 3-day workshop on Entrepreneurship, Innovation, and Startups held between 20-22, August, 2019 at JNTUA College of Engineering, Anantapur.
16. A 3-day workshop on Web Design using Mean Stack 26-28, September, 2019 at JNTUA College of Engineering, Anantapur.



17. A One-week Faculty development program on Cyber Security during Dec. 16-20, 2019, which is sponsored by AICTE Training and Learning Academy (ATAL), at JNTUA College of Engineering, Anantapur.
18. A one-week Faculty Development Program on Augmented Reality/Virtual Reality during Jan 5<sup>th</sup> to 9<sup>th</sup>, 2021, which is sponsored by AICTE Training and Learning Academy (ATAL), at JNTUA College of Engineering, Anantapur.
19. CODE 2 WIN HACKFEST, a 10 hours Hackathon organized on 2<sup>nd</sup> May, 2021 at JNTUA College of Engineering, Anantapur
20. A Two-Week (40 hours) Faculty Development Program on Data Science Foundations and Research issues organized during Oct. 19-23 and Oct 25-29, 2021, jointly by Jawaharlal Nehru Technological University Anantapur, and E & ICT Academy – National Institute of Technology, Warangal.

#### **MEMBERSHIP IN PROFESSIONAL BODIES**

- Professional member of ACM
- Senior Member of IEEE
- Fellow of Institution of Engineers, India.
- Member of Computer Society of India (CSI), India.
- Member of Indian Society for Technical Education (ISTE), India.

#### **CHIEF GUEST/SESSION CHAIR**

- Served as Session Chair for FESTIVITS-2k10 National level Youth Festival held at Vaagdevi Institute of Technology and Science, Prodattur on 11-12 March, 2013
- Served as Session Chair for FESTIVITS-2k11 National level Youth Festival held at Vaagdevi Institute of Technology and Science, Prodattur on 13 March, 2013
- Served as Session Chair for National Conference on Networking and Information Technology held at AITS, Rajampet on 12-13 October, 2012
- Served as Session Chair for TechnoSpark-2k13 organized by KKC Institute of Technology and Engineering for Women on 16<sup>th</sup> Feb., 2013
- Served as Chief Guest for Srujana – 2k13 organized by Adhila Bharatiya Vidhyarthi Parishad hosted at Srinivasa Institute of Technology and Science, Kadapa on 8<sup>th</sup> March., 2013
- Served as Chief Guest for National level Workshop on Cloud Computing organized by Mother Theresa Institute of Engineering and Technology, Palamaner on 15<sup>th</sup> March., 2013

- Served as Chief Guest for National level Student technical Festival LAVA-2k15 organized by Narayana Engineering College, Gudur on 25<sup>th</sup> March., 2015
- Served as Session Chair at 2<sup>nd</sup> International conference on Emerging Trends in Electrical, Communication and Information technologies-2015 held at SRIT, Anantapur during 19-21 December, 2015.
- Served as Session Chair at National Conference on Recent Innovations in Computer Networks held at JNTUA College of Engineering, Ananthapuramu during 21<sup>st</sup> and 22<sup>nd</sup>, 2015.
- Served as Guest of Honour for Android Developer Fundamentals workshop jointly organized by SVCE, Tirupati, JNTUA, APSSDC and Google at SVCE, Tirupati from 24-7-2017 to 28-7-2017.
- Served as Chief Guest for Smart India Hackathon-2018 held at Brindavan Institute of Technology and Science during 30-31 March. 2018.
- Served as Chief Guest for 3-day Entrepreneurship Awareness Camp held at Gates Institute of Technology, Gooty on 24<sup>th</sup> October, 2019.
- Served as Judge of the event for “University level NSS Youth Festival-2020” on 23<sup>rd</sup> January, 2020 at JNTUA, Anantapur.

## **GUEST LECTURE**

- Served as Resource person for APSCHE sponsored Short term Faculty training programme on C and Data Structures, held at Sree Vidyanikethan Engineering College, Tirupati during September 3-8, 2012
- Served as Resource person for A three week Refresher course on Advanced communications, held at UGC Academic Staff College, JNTU, Hyderabad on 13<sup>th</sup> Nov., 2006
- Presented a Guest Lecture on Fundamentals of Computer Networks on 16<sup>th</sup> Aug., 2008 at Narasaraopet Engineering College, Narasaraopet, A.P.
- Presented a Guest Lecture on Computer Networks on 11<sup>th</sup> Jan., 2010 at Tirumala Engineering College, Narasaraopet, A.P.
- Presented a Guest Lecture on Advanced UNIX Programming on 25<sup>th</sup> Dec., 2011 at Sri. Sai Institute of Technology and Science, Raychotty, A.P.
- Presented a Guest Lecture on NS-2 Simulator on 26<sup>th</sup> Dec., 2010 at Sri. Sai Institute of Technology and Science, Raychotty, A.P.
- Presented a Guest Lecture on Advanced Computer Networks on 20<sup>th</sup> Dec., 2009 at Sri. Sai Institute of Technology and Science, Raychotty, A.P.

- Presented an Invited Lecture on Future Trends in Wireless Networks on 23<sup>rd</sup> Sept., 2011 at Sri. Kandual Obul Reddy Memorial College of Engineering, Kadapa, A.P.
- Served as Resource person at National Conference on Recent Innovations in Computer Networks held at JNTUA College of Engineering, Ananthapuramu during 21<sup>st</sup> and 22<sup>nd</sup>, 2015.
- Served as Resource person at one-day workshop on Cognitive Skills, Design Thinking and Critical Thinking, held on Feb 23<sup>rd</sup>, 2019 at JNT University Anantapur.
- Served as Resource person at 3-day workshop on Entrepreneurship, Innovation, and Startups held between 20-22, August, 2019 at JNTUA College of Engineering, Anantapur.
- Served as Resource person at One Week Faculty Development Program on Design Thinking held between 20-25, January, 2020 at Sree Vidyanikethan Engineering College, Tirupathi.
- Served as Resource person at Two Week Refresher Course on Internet of Things (IoT) held between 07-19, September 2020 at UGC-Human Resource Development Centre, JNTUH, Kukatpally, Hyderabad.
- Served as Resource person at AICTE sponsored Phase-I Short Term Training Program on “Technical Writing and Research Methodology”, held between Nov. 30<sup>th</sup> to Dec. 5<sup>th</sup> 2020, at CBIT, Proddatur, YSR-Kadapa District.
- Served as Expert (Resource person) for Student Learning Assessment Project of AICTE
- Served as Evaluator for Smart India Hackathon – 2022.
- Served as expert for National Academic Peer Perception related to NIRF-2023.

## **AWARDS**

- Received Rashtra Pratibha Puraskar from Integrated council for Socio-Economic Progress, on Nov. 25<sup>th</sup>, 2012 in a function held at Bangalore.

## **SOCIAL WORK**

- Regular Contributor for Padma Rehabilitation Center for Mentally Retarded and Physically Disabled at Kadapa
- Contributor for Basata Social Service Society at Kadapa

## PUBLICATIONS

### Text book

1. Dr. P. Chenna Reddy, "Computer Fundamentals and C Programming", 2<sup>nd</sup> Edition, BS Publications, 2019.(Link: <https://a.co/d/1xtjF7p> )
2. Dr. P. Chenna Reddy, "Computer Fundamentals and C Programming", Self-Publishing, Available: <http://pothi.com/pothi/book/dr-p-chenna-reddy-computer-fundamentals-and-c-programming>, 1<sup>st</sup> Edition, Mar. 2013, ISBN: 978-93-5104-588-5.
3. Chenna Reddy Pakanati, "Introduction to C Programming", 2024, Kindle Edition, Amazon.
4. Pakanati Chenna Reddy, Introduction to Computers and Computer Sciences, 2022, Kindle Publications, Amazon.
5. Pakanati Chenna Reddy, Introduction to Python, 2024, Kindle Publications, Amazon.

### Articles

1. Dr. P. Chenna Reddy, "Social Networking – Impact and Ramifications", CSI Communications magazine, ISSN: 0970-647X, Vol. 37, Issue. 3, pg: 14-16, June, 2013.

### Journal Publications

1. P. Chenna Reddy, and Dr. P. Chandra Sekhar Reddy, "Performance Comparison of TCP Congestion Control Algorithms", The Journal of "The Institution of Engineers (India) – CP", Vol. 87, Nov. 2006, , ISSN: 0971-0469, pg 43-48, H index: 4, **Scopus indexed**, SJR = 0.13.
2. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Performance analysis of adhoc network routing protocols", Academic Open Internet Journal, Vol. 17, Available: <http://www.acadjournal.com/2006/V17/part6/p3>, April, 2006, ISSN: 1311-4360.
3. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Active Queue Management in a QOS Enabled Network", Journal of Computer Science, Vol. 1, No. 3, Nov-Dec 2005, ISSN: 0973-2926.
4. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Dynamic Vegas", i-managers Journal Software Engineering, Vol. 3, No.2, Oct-Dec 2008, ISSN: 0973-5151.
5. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Interoperability of TCP Vegas with TCP Reno", International Journal of Engineering Research and Industrial Applications, Vol. I, No. VII, 2008, ISSN: 0974-1518.

6. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Dynamic RED", Journal of Engineering Today, Jan 2009, ISSN: 2180-0995.
7. P. Chenna Reddy, "TCP over IEEE 802.11", Journal of Annals of Computer Science, Vol. VII, Nov. 2009, ISSN: 2065-7471.
8. P. Chenna Reddy, "Modification of RTS retransmission mechanism", International Journal of Multidisciplinary Research and Advances in Engineering, Vol 2, No. III/IV, 2010, ISSN: 0975-7074.
9. P. Chenna Reddy, V. Venkata Ramana, A. Rammohan Reddy, "A Survey of QOS with IEEE 802.11e", International Journal on Computer Science and Engineering, pg 807-813, Vol. 3, No. 2, Feb 2011, ISSN: 0975-3397.
10. P. Chenna Reddy, "Service differentiation of IEEE 802.11e", Journal of advances in Computer research, Pg 39-48, Vol. 01, No. 3, March 2011, ISSN: 2008-6148.
11. V. Lokeswara Reddy, Dr. A. Subramanyam, Dr. P. Chenna Reddy, "Implementation of LSB Steganography and its Evaluation for Various File Formats", International Journal of Advanced Networking and Applications, pg 868-872, Vol. 02 Issue: 05, Mar-Apr 2011, ISSN: 0975-0290.
12. V. Lokeswara Reddy, Dr. A. Subramanyam, Dr. P. Chenna Reddy, "SteganPEG Steganography+JPEG", International Journal of Computer Graphics, pg 31-42, Vol. 2, No.1, May 2011, ISSN: 2093-9663.
13. T. Srikanth, N. Rajesh, Dr. P. Chenna Reddy, "An Improved Snoop for TCP Reno and TCP SACK in Wired-cum-Wireless Networks", Indian Journal of Computer Science and Engineering, pg 455-460, Vol.2 No. 3, June-July, 2011, ISSN: 0976-5166.
14. Dr. P. Chenna Reddy, "Improving Performance of Voice Over IEEE 802.11e", i-managers Journal on Software Engineering, Vol. 5, No. 1, July-September, 2010, ISSN: 0973-51510.
15. Dr. P. Chenna Reddy, V. Lokeswara Reddy, Dr. A. Subramanyam, "A Least Significant Bit Embedding Technique of Digital Image Steganography", Atti Della Fondazione Giorgio Ronchi, No. 4, June-2011, ISSN: 0391-2051.
16. Dr. P. Chenna Reddy, J. Srinivas, "Enhancement Study of Power-Aware Routing Protocols in Ad hoc Networks", International Journal of Advanced Research in Technology, Vol. 1 Issue 1, Pg: 71-75, 2011, ISSN: 6602-3127.
17. R. Lalu Naik, Dr. P. Chenna Reddy, U. Sathish Kumar, "Provably Secure Quantum Key Distribution Protocols in 802.11 Wireless Networks", International Journal of Computer Science and Information Technologies, Vol. 2 (6) , Pg: 2811-2815, 2011, ISSN: 0975-9646.
18. R.Lalu Naik, Dr.P.Chenna Reddy, U.Sathish Kumar, Dr.Y.V.Narayana, "Quantum Cryptography with key Distribution in Wireless Networks on Privacy Amplification", International Journal of

Computer Networks and Wireless Communications (IJCNCW), Vol. 1, No. 1, December 2011, ISSN: 2250-3501, Impact Factor: 0.421.

19. B. Jagadessh, P. Rajesh kumar, P. Chenna Reddy, "Genetic algorithm approach for singular value decomposition and quantization based digital water marking", International journal of Engineering research and applications, Vol. 2, Issue 2, pp.1229-1235, Mar-Apr 2012, ISSN: 2248-9622.
20. T. Surya prakash Reddy, P. Chenna Reddy, "OCC: Ordered congestion control with cross layer support in MANET routing", International Journal of Advanced Computer Science and Applications, Vol. 3, No. 3, 2012, DOI: 10.14569/IJACSA.2012.030316, ISSN: 2156-5570, Impact Factor: 1.324.
21. R.Lalu Naik, Dr.P.Chenna Reddy, "Secure Authentication of BB84 Quantum Key Distribution Protocols", International Journal of Computer Engineering and Technology, Vol. 3, Issue 2, pp. 280-287, July-Sept,2012, ISSN: 0976-6375.
22. B. Reshma Yusuf, Dr. P. Chenna Reddy,"Mining data streams using Option trees", International Journal of Computer Network and Information Security, Aug. 2012, pp. 49-54, ISSN: 2074-9104.
23. B. Reshma Yusuf, Dr. P. Chenna Reddy,"Mining data streams using Option trees", International Journal of Computer Engineering and Intelligent Systems, , Vol. 3, No. 7, pp. 89-99, 2012 ISSN: 2222-2863.
24. S. Vishnu Vardhan, Dr. P. Chenna Reddy,"Congestion Control in Real Time Applications", International Journal of Computer Applications, Vol. 51, No. 3, pp 33-37, Aug. 2012, DOI: 10.5120/8025-1176, ISSN: 0975-8887, Impact factor: 0.821.
25. R. Siva Sankara Reddy, Dr. P. Chenna Reddy, "K-Means Algorithm with different Measurements in Clustering Approach", International Journal of Engineering and Advanced Technology, Vol. 1, Issue 6, Aug. 2012, pp: 269-271, ISSN: 2249-8958, Impact Factor: 1.0.
26. M. Jagadeeswara Reddy, Dr. P. Chenna Reddy. A. Ganesh," Energy-Efficient Self Reconfigurable Clustering Approach for Heterogeneous Wireless Sensor Networks", International Journal of Computer Applications, Volume 54– No.7, September, 2012, DOI: 10.5120/8575-2312, ISSN: 0975 – 8887, Impact factor: 0.821.
27. Y. Ravi, V. Venkata Ramana, M.V. Rathnamma, Dr. P. Chenna Reddy, "Position based Routing in Mobile Adhoc Networks", International Journal of Computer Applications, Volume 55– No.7, October, 2012, DOI: 10.5120/8750-2638, ISSN: 0975 – 8887, Impact factor: 0.821.
28. T. Nishitha, Dr. P. Chenna Reddy, "Bio-Inspired Routing in Adhoc Networks", Journal of Engineering, Computers and Applied Sciences, Volume 1, No.1, October 2012, ISSN: 2319-5606.

29. M. Jagadeeswara Reddy, Dr. P. Chenna Reddy, "Energy Conservation Hierarchical Cluster based Routing Protocols for Heterogeneous Wireless Sensor Networks", *International Journal of Engineering Research*, Vol.2, Issue 5, Sept-Oct 2012, pp: 939-942, ISSN: 2248-9622.
30. Pathan Mohd. Shafi, Dr. Abdul Satar, Dr. P. Chenna Reddy, "Improved Kerberos Authentication Security Protocol for Mobile Devices", *Technical Journal of The Institution of Engineers (India)*, Vol. 36, Nov. 2012, ISBN: 978-81-924990-0-0.
31. T. Surya prakash Reddy, P. Chenna Reddy, "EOCC: Energy Ordered Congestion control using cross layer support in Mobile Adhoc Network Routing", *International Journal of Scientific and Engineering Research*, Vol. 3, Issue. 10, Oct. 2012, ISSN: 2229-5518, Impact Factor: 0.4510.
32. Geeta Reddy J, Rajeshwari S.B., Dr. N.Uday Bhaskar, Dr. P. Chenna Reddy, "An Efficient Profit-based Job Scheduling Strategy for Service Providers in Cloud Computing Systems", *International Journal of Application or Innovation in Engineering and Management*, Vol.2, Issue 1, Jan. 2013, ISSN: 2319-4847.
33. M.Durga Prasad, Dr P.Chenna Reddy, Banoth Samya, "Extended Nymble: Method for tracking Misbehaving Users Anonymously while Blocking ",*International Journal of Computer Science & Information Technology*, Vol. 5, No. 1, February 2013, ISSN: 0975-3826.
34. Y. Kishore, V. Venkata Ramana, Dr. P. Chenna Reddy, "Secure routing in adhoc networks using ARAN", *International Journal of Management, IT and Engineering*, Vol. 2, Issue. 12, Dec. 2012 , ISSN: 2249-0558.
35. Pathan Mohd. Shafi, Dr. Abdul Satar, Dr. P. Chenna Reddy,"Risk Assessment of Authentication protocol", *International Journal of Computer Science and Information security*, Vol. 9, No. 6, June, 2011", ISSN: 1947-5500.
36. T. Surya prakash Reddy, P. Chenna Reddy, "EOCTC: Energy Efficient Ordered Congestion Tolerant and Control Routing for Mobile Adhoc Networks", *International Journal of Computer Science Issues*, Vol. 10, Issue. 2, No. 1, July, 2013, Impact Factor: 0.242, ISSN: 1694-0784, Impact Factor: 0.242.
37. V. Lokeswara Reddy, Dr. P. Chenna Reddy, Dr. A. Subramanyam, "A Novel Approach for Hiding Data in Image, Audio and Video using Steganography", *International Journal of Computer Applications*, Volume 69– No.15, May, 2013, DOI: 10.5120/11922-8131, ISSN: 0975 – 8887, Impact Factor: 0.821.
38. B. Jagadeesh, P. Rajesh kumar, P. Chenna Reddy, "Robust Digital Image Water Marking Scheme in Discrete Wavelet Transform Domain using Support Vector Machines", *International Journal of Computer Applications*, Volume 73– No.14, July, 2013, DOI: 10.5120/12806-9865, ISSN: 0975 – 8887, Impact Factor: 0.821.
39. A.L. Sreenivasulu, P. Chenna Reddy, "Comparative Assay of the Overhead of Efficient Version of CPDA Protocol to Original CPDA Protocol", *International Journal of Engineering and Innovative Technology*, Vol. 3, Issue. 3, Sept. 2013. ISSN: 2277-3754.

40. P. Jammulaiah, P. Chenna Reddy, "Simulation and Comparison of AOMDV, AODV and DSR in MANETS", *International Journal of Networks and Systems*, Vol. 2, No. 6, Oct-Nov, 2013, ISSN: 2319 – 5975.
41. A. Swetha, P. Chenna Reddy, "Authentication of an Image over Wireless Channels based on Secure Digital Signature Scheme", *International Journal of Science and Research*, Vol. 2, Issue. 12, Dec. 2013, ISSN: 2319-7064.
42. P. Sreenivasa Rao, M. Janani, P. Chenna Reddy, "TFRC for Congestion control in Wired Environment", *International Journal of Inventive Engineering and Sciences*, Vol. 2, Issue. 1, Dec. 2013, ISSN: 2319-9598.
43. P. Sreenivasa Rao, M. Janani, P. Chenna Reddy, "TFRC for Congestion control in Wireless Environment", *International Journal of Science and Modern Engineering*, Vol. 2, Issue. 1, Dec. 2013, ISSN: 2319-6386.
44. Soni Shaik, P. Chenna Reddy, "An Evaluation Study of AntHocNet", *International Journal of Networks and Systems*", Vol. 2 No. 6, Oct-Nov, 2013, DOI:10.1.1.402.3438 , ISSN: 2319-5975.
45. V. Lokeswara Reddy, Dr. P. Chenna Reddy, Dr. A. Subramanyam, "A Novel Technique for JPEG Image Steganography and its Performance Evaluation", *International Journal of Advanced Media and Communication*, **Inderscience Enterprises**, Pg: 211-224, Vol. 5, No. 2/3, 2014, DOI: 10.1504/IJAMC.2014.060494, ISSN: 1741-8003, **Scopus indexed**, SJR: 0.31, **Impact factor (cites per doc): 0.2**.
46. T.Sunil Kumar Reddy, Dr.P.Venkat Krishna, Dr P. Chenna Reddy, "Fuzzy Bee Colony Optimization for Resource Allocation in Grid Computing", *International Journal of Engineering Research and Technology*, Vol. 7, No. 1, 2014, pg. 17-27, EBSCO indexed, ISSN 0974-3154.
47. T.Sunil Kumar Reddy, Dr.P.Venkat Krishna, Dr P. Chenna Reddy, "Power Aware based Workflow Model Optimization using Fuzzy Bee Colony Method", *ARNP Journal of Engineering and Applied Sciences*, Vol. 9, No. 4, April, 2014, pg. 593-598, ISSN 1819-6608, **Scopus indexed**, SJR: 0.16, **Impact factor (cites per doc): 0.29**.
48. B. Jagadessh, P. Rajesh kumar, P. Chenna Reddy, "Digital Image Water Mark Extraction in Discrete Wavelet Transform Domain using Support Vector Machines", *International Journal of Recent Trends in Engineering & Technology*, Vol. 11, June. 2014, Pg: 170-176, ISSN 2158-5563.
49. P. Chenna Reddy, "New Routing Metrics for Adhoc Network Routing Protocols", *Journal of Institution of Engineers (India): Series. B (Springer)*, DOI 10.1007/s40031-014-0116-x, Vol. 95, No. 4, Oct-Dec 2014, Pg: 351-361, **Scopus indexed**, ISSN 2250-2106, **Impact factor: 0.3**.
50. J. Geetha, N. UdayBhaskar, P. ChennaReddy, and Neha Sniha, "Hadoop Scheduler with Deadline Constraint", *International Journal on Cloud Computing: Services and Architecture (IJCCSA)*, Vol. 4, No. 5, October 2014, DOI: 10.5121/ijccsa.2014.4501, EBSCO indexed, ISSN: 2231-5853.



51. T.Sunil Kumar Reddy, Dr.P.Venkat Krishna, Dr P. Chenna Reddy, “Power aware Framework for Scheduling Tasks in Grid-based Workflows”, International Journal of Communication Networks and Distributed Systems, **Inderscience** Publishers, Vol. 14, No. 1, 2015, pg. 74-88, **Scopus indexed**, ISSN 1754-3924, **DOI**: 10.1504/IJCNSD.2015.066016, **SJR**: 0.17, **Impact factor**: **0.41**.
52. R.Anusha, Dr. P. Chenna Reddy, “Comparison of AODV and AntHocNet in Static Wireless Network”, International Journal on Cybernetics & Informatics (IJCI) Vol. 4, No. 2, April 2015, DOI: 10.5121/ijci.2015.4210, ISSN: 2277 - 548X.
53. Y. Lakshmi Prasanna, Dr. P. Chenna Reddy, “Analysis of AntHocNet and AODV Performance using NS2”, International Journal on Cybernetics & Informatics (IJCI) Vol. 4, No. 2, April 2015, DOI: 10.5121/ijci.2015.4209, ISSN: 2277 - 548X.
54. B. Aruna Kumari, Dr. P .Chenna Reddy, “TCP RENO, SACK and VEGAS Performance Analysis”, International Journal on Cybernetics & Informatics (IJCI) Vol. 4, No. 2, April 2015, DOI: 10.5121/ijci.2015.4211, ISSN: 2277-548X.
55. Dr. P. Chenna Reddy, “Analysis of Teaching Computer Programming in Indian Context”, Journal of Engineering Education Transformations, Vol. 28, Issue. 4, April, 2015, Pg: 50-55, DOI: 10.16920/jeet/2015/v28i4/70400, ISSN: 2349-2473.
56. B. Jagadessh, P. Rajesh kumar, P. Chenna Reddy, “Robust Digital Image Water Marking based on Fuzzy inference system and Back propagation Neural networks using DCT”, **Springer** journal of Soft Computing – A Fusion of Foundations, Methodologies and Application, **SCI indexed Journal**, Available online from 5<sup>th</sup> June, 2015, ISSN: 1432-7643, DOI: 10.1007/s00500-015-1729-y, **impact factor**: **1.34**.
57. M. Chenna Keshava, P. Chenna Reddy, “TCP, UDP, and TFRC in Wired Networks”, International Journal of Applied Engineering Research, Vol. 10, No. 16, 2015, pg: 36872-36880, **Scopus indexed** journal, ISSN: 0973-4562, **Impact factor**: **0.12**, **Scopus Indexed**.
58. R. Lalu Naik, P. Chenna Reddy, “Towards Secure Quantum Key Distribution Protocol for Wireless LANs: A Hybrid Approach”, **Springer** Journal of Quantum Information Processing, Vol. 14, Issue.10, Sept. 2015, Pg: 1-8, **SCI indexed Journal**, ISSN: 1570-0755, **Impact factor**: **1.923.**, DOI: 10.1007/s11128-015-1129-3, **Scopus indexed**.
59. N. Ramakrishnaiah, P. Chenna Reddy, “A review of Addressing Protocols in mobile ad-hoc networks”, International Journal of Computer Applications, Vol. 132, No. 9, Dec. 2015, Pg: 31-36, ISSN: 0975-8887, DOI: 10.5120/ijca2015907546.
60. C. Sreedhar, N. Kasiviswanath, P. Chenna Reddy, “A Survey of Big Data Management and Job Scheduling”, International Journal of Computer Applications, Vol. 130, No. 3, Nov. 2015, Pg:41-49, ISSN: 0975-8887, DOI: 10.5120/ijca2015907161.
61. B. Jagadeesh, P. Rajesh kumar, P. Chenna Reddy, “Robust Digital Image Watermarking Technique in DWT domain based on HVS and BPNN”, International Journal of Image Processing, Vol. 9, Issue. 5, Sept. 2015, Pg: 272-282,ISSN: 1985-2304.

62. C. Ramakristanaiah, P. Chenna Reddy, R. Praveen Sam, "Analysis of Starvation Problem in Wireless LANs", International journal of control theory and applications, Vol. 8, issue. 4, 2016, pg. 1-7, ISSN: 0974-5572, **Scopus Indexed, Impact factor: 0.44.**
63. R. Raja Sekhar, P.Chenna Reddy, "An Efficient Multipath Routing Protocol with Replication for On-demand Video Streaming in MANETs", International Journal of Computer Science and Networks, Vol. 5, Issue. 3, June 2016, pg: 458466, ISSN: 2277-5420.
64. RajaSekahar Rajaboina, Dr. P. Chenna Reddy, and Raja Ashok Kumar, "Performance Comparison of TCP, UDP, and TFRC in Static Wireless Environment", International Journal of Information and Computer Security, Vol. 8, No. 2, 2016, pg: 158-180, ISSN: 17441765, **Inderscience publishers, scopus indexed, Impact factor: 0.29.**
65. M.V. Rathnamma, P. Chenna Reddy, "Trust Management Scheme for Ad-hoc Networks using a Social Network based Approach for Secure Routing", International Journal of Computer Engineering and technology, Vol. 4, Issue 3, May-June, 2013, pp. 359-369, ISSN: 0976 – 6375.
66. M.V. Rathnamma, P. Chenna Reddy, "A relationship-based approach for energy aware secure routing in MANETs", Int. J. Smart Grid and Green Communications, Vol. 1, No. 1, 2016, pg: 87-101, **Inderscience Publishers**, ISSN: 2052-2002.
67. M.V. Rathnamma, P. Chenna Reddy, "A Power Efficient Trust Based Secure Routing Scheme for Mobile Ad-Hoc Networks", JurnalTeknologi (Sciences & Engineering), Vol. 72, No. 1, 2015, pg: 1–6, ISSN: 2180–3722, **Scopus Indexed, Impact factor: 0.32.**
68. J. Geetha, N. UdayBhaskar, P. ChennaReddy, "Data-local Reduce Task Scheduling", International Conference on Computational Modeling and Security, Bangalore, Published in Journal of **Elsevier Procedia Computer Science**, Vol. 85, pg: 598-605, **Scopus Indexed, impact factor: 0.75**, ISSN: 18770509, doi: 10.1016/j.procs.2016.05.226
69. RajaSekahar Rajaboina, Dr. P. Chenna Reddy, "Group based Replica Relocation for on Demand Video Streaming in Manets", International Journal of Computer networks and Wireless Communications, Vol. 6, No. 4, pg: 17-23, July-August, 2016, ISSN: 2250-2501
70. K.Ramesh Rao, Dr. S.N.Tirumala Rao, Prof. P. Chenna Reddy, "Security Problems in Wireless Sensor Networks", International Journal of Computer Trends and Technology (IJCTT), Vol. 39, No. 1, Sept. 2016, ISSN: 2231-2803, pg: 47-52, doi: 10.14445/22312803/IJCTT-V39P109.
71. B. Jagadeesh, P. Rajesh kumar, P. Chenna Reddy, "Fuzzy Inference System Based Robust Digital Image Watermarking in DWT-DCT Domain Using Human Visual System", International Review on Modelling and Simulations (I.RE.MO.S.), Vol. 9, No. 4, ISSN 1974-9821, Aug. 2016, Pg: 265-270, DOI: <https://doi.org/10.15866/iremos.v9i4.8534>, **Scopus indexed, Impact factor: 0.76.**
72. P. Chenna Reddy, "Teaching Computer Programming – Indian Perspective", Indian Journal of Technical Education, ISTE, Vol. 39, No. 3, July-Sept 2016, pg: 60-70, ISSN: 0971-3034,

73. C. Sreedhar, N. Kasiviswanath, and P. Chenna Reddy, "A Novel Multilevel Queue based Performance Analysis of Hadoop Job Schedulers", Indian Journal of Science and Technology, Vol. 9, Issue. 44, Nov. 2016, ISSN: 0974-5645 DOI: 10.17485/ijst/2016/v9i44/96414, **Scopus Indexed, Impact factor: 0.86.**
74. P. Vijaya kumari, and P. Chenna Reddy, "Performance Evaluation of IEEE 802.11e EDCA using QUALNET", International Journal of Computer Applications (0975 – 8887) Vol. 155, No. 1, Dec. 2016, ISSN: 0975-8887, DOI: 10.5120/ijca2016911883.
75. N. Ramanjaneya Reddy, Dr.P.Chenna Reddy,Dr. M. Padmavathama, " An Enhanced Queue Management Scheme for TFRC over Wired Networks", International Journal of Intelligent Engineering and Systems", Vol. 10,Issue 1 Feb 2017, ISSN: 2185- 3118, DOI : 10.22266/IJIES2017.0228.03, **Scopus Indexed, Impact factor: 0.16.**
- 76.N. Ramanjaneya Reddy, Dr.P.Chenna Reddy, Dr.M. Padmavathama, "Performance Enhancement of TCP Friendly Rate Control Protocol over wired networks", International journal of Electrical and Computer Engineering, Volume 6, No 6, December 2016, pg: 2949-2954, ISSN: 2088-8708, DOI: 10.11591/ijece.v6i6.12560, **Scopus Indexed, Impact factor: 0.35.**
- 77.S Madhu, Dr M Bal Raju, Dr P Chenna Reddy "A Survey of Cross Layer Design in Wireless Networks for Joint Optimization of Multimedia Transmission", International Journal of Advanced Research in Computer Science (IJARCS), Vol.8, No.3, March-April 2017, pg: 438-444, ISSN:0976-5697.
78. A.L. Sreenivasulu, P. Chenna Reddy, "Secure Data Aggregation for Wireless Sensor Networks using Double Cluster Head Approach", Journal of Engineering Science and Technology Review, Vol. 10, Issue. 2, June 2017, pg. 75- 79, ISSN: 1791-2377, **Scopus Indexed, Impact factor: 0.94.**
79. N. Ramanjaneya Reddy, Dr.P.Chenna Reddy, Dr. M. Padmavathama, "An Enhanced Queue Management Scheme for Eradicating Congestion of TFRC over Wired Environment", International Journal of Electrical and Computer Engineering", Vol. 10, No. 3, June 2017, ISSN: 2088-8708, DOI : 10.11591/ijece.v7i3, pp: 1347-1354, **Scopus Indexed, Impact factor: 0.35.**
80. Madhu, S., Raju, M.B. and Reddy, P.C., 2017, "Enhancing Transport of Media Using Physical Layer Based Approach", International Journal of Applied Engineering Research, 12(8), pp.1564-1575, **Scopus Indexed, Impact factor: 0.19.**
81. Jagadeesh, B., Kumar, P.R. and Reddy, P.C., 2016, "Robust digital image watermarking based on fuzzy inference system and back propagation neural networks using DCT," Soft Computing, 20(9), pp.3679-3686, DOI: 10.1007/s00500-015-1729-y, **Scopus Indexed, SCI indexed, Impact factor: 2.319.**
82. Ramakrishnaiah, N. & Chenna Reddy, P. 2015, "An addressing mechanism for network partitioning and merging in wireless ad hoc networks", International Journal of Applied Engineering Research, vol. 10, no. 17, pp. 37992-37996, **Scopus Indexed, Impact factor: 0.15.**

83. K. Ramesh Rao, Dr. S.N. Tirumala Rao, P. Chenna Reddy, “Wireless Communication security and Privacy issues and Challenges”, International Journal of Computer science and information security, Vol. 15, No. 7, July 2017, ISSN: 1947-5500.
84. Chowdam Sreedhar, Nagulapally Kasiviswanath and Pakanti Chenna Reddy, “Clustering large datasets using K-means modified inter and intra clustering (KM-I2C) in Hadoop”, Journal of Big Data, Sep. 2017, ISSN: 2196-1115, DOI 10.1186/s40537-017-0087-2, **impact factor: 0.69, Scopus indexed, Springer Publication.**
85. N. Ramanjaneya Reddy, Dr.P.Chenna Reddy, Dr. M. Padmavathama, “Efficient Traffic Engineering Strategies for Improving the Performance of TCP Friendly Rate Control Protocol”, Future Internet — Open Access Journal, ISSN: 1999-5903, Vol. 9, issue: 74, doi: 10.3390/fi9040074 – 1, November, 2017, indexed in **Scopus and Emerging sources citation index, impact factor: 0.32.**
86. P. Chenna Reddy, “Use of ants foraging behaviour for routing in ad hoc networks”, Int. J. Ad Hoc and Ubiquitous Computing, Vol. 27, No. 1, 2018, pp.34–57, ISSN: 17438225, published by Inderscience Enterprises, **Scopus indexed, SCI indexed, impact factor: 0.82.**
87. S Madhu, Dr M Bal Raju, Dr P Chenna Reddy, “Evaluation of Video Transmission over Wireless Network with CLD Approach”, Indian Journal of Computer Science and Engineering (IJCSE), Vol.8 No.6, Dec 2017- Jan 2018, pg: 666-673, ISSN: 0976-5166.
88. Y. Gangadhar, V. S. Giridhar Akula, P. Chenna Reddy, “ An Evolutionary Programming Approach for Securing Medical Images using Watermarking Scheme in Invariant Discrete Wavelet Transformation”, Biomedical Signal Processing and Control, Vol. 43, May 2018, pg: 31-40, **Scopus indexed, SCI indexed, impact factor: 2.214**, DOI: 10.1016/j.bspc.2018.02.007
89. Girija J, Dr. G.N. Krishna Murthy , Dr. P. C. Chenna Reddy, “Multimodal 3D medical image registration algorithm using dual tree complex wavelet sub band”, International Journal of Engineering & Technology, Vol. 7, 2018. **Scopus indexed, impact factor: 0.3.**
90. Girija, J., GN Krishna Murthy, and PC Chenna Reddy, "Gradient Analysis of 3-D Image Sequence using DTCWT and DD DTCWT", International Journal of Electronics, Electrical, and Computational System, Vol. 6, Issue 9, ISSN 2348-117x, 2017.
91. Girija, J., Krishna GN Murthy, and P. Chenna Reddy, "Fast Registration Algorithm for 3D Medical Images using Double Density Dual Tree Complex Wavelet Transform and Bi-directional Prediction," International Journal of Computer Science Issues (IJCSI), Vol. 15, Issue 1, pp.34-40, 2018. DOI: 10.20943/01201801.3440
92. Srinivasa Rao, T.Y. & Chenna Reddy, “Content and context based image retrieval classification based on firefly-neural network” P. Multimed Tools Appl (2018). **Scopus indexed, SCI indexed, impact factor: 1.5**, DOI: 10.1007/s11042-018-6224-x
93. K. Ramesh Rao, S.N.Tirumala Rao, P. Chenna Reddy, “ An Effective Data Privacy Mechanism through Secure Session Key Exchange Model for MANET”, International Journal of Electrical

and Computer Engineering (IJECE), Vol. 8, No. 5, October 2018, pp. 3267~3277 ISSN: 2088-8708, DOI: 10.11591/ijece.v8i5.pp.3267-3277

94. Vivekananda, G.N., and Chenna Reddy, P., "Performance evaluation of TCP, UDP, and SCTP in MANETS", ARPN Journal of Engineering and Applied Sciences, Vol.13, No.9, 2018, pp.3087-3092. **Scopus Indexed, Impact factor: 0.49.**
95. Vivekananda, G.N., and Chenna Reddy, P., "Packet Loss Minimizing Approach Based on Traffic Prediction for Multi-streaming Communication over MANET", Int. J. of Wireless and Mobile Computing, Vol. 17, No.1, ISSN: 1741-1092, **Inderscience**, 2019, **Scopus Indexed, Impact factor: 0.5.**
96. Vivekananda, G.N., and Chenna Reddy, P., "Efficient Video Transmission Technique using Clustering and Optimization Algorithms in MANETs", Int. J. Advanced Intelligence Paradigms, [Accepted- In Press]. **Inderscience**, 2018, **Scopus Indexed, Impact factor: 0.591.**
97. Vivekananda, G.N., Chenna Reddy, P., and Ilknur Aydin., "A Congestion Avoidance Mechanism in Multimedia Transmission over MANET using Multi-streaming", Multimedia Tools and Applications, Springer, Feb. 2019, **SCI indexed, Impact factor: 2.477.**
98. K. Ramesh Rao, S. N. Tirumala Rao, and P. Chenna Reddy, "Node Activities Learning (NAL) Approach to Build Secure and Privacy-Preserving Routing in Wireless Sensor Networks", International Journal of Communication Networks and Information Security (IJCNIS), ISSN: 2073-607x, Vol. 10, No. 3, December 2018, pp. 546-551. - **Scopus Indexed, impact factor: 0.23.**
99. K.Ramesh Rao, Dr. S.N.Tirumala Rao, Prof. P. Chenna Reddy, "A Belief forecasting methodology to preserve data security and privacy in MANET routing", Journal of Theoretical and Applied Information Technology, Vo. 97, No. 10, May 2019, pp: 2750-2760, ISSN: 1992-8645.
100. A.L. Sreenivasulu, P. Chenna Reddy, "NLDA non-linear regression model for preserving data privacy in wireless sensor networks", Journal of Digital Communications and Networks, Vol. 6, Issue. 1, Feb. 2020, pg. 101-107, ISSN: 2352-8648, **SCI Indexed, Impact factor: 3.4.** DOI: <https://doi.org/10.1016/j.dcan.2019.01.004>.
101. B. Srikala, P. Chenna Reddy, "Criminal Recognition and Alert System", GIS Science Journal, Vol. 7, Issue 12, 2020, pg: 969-976, ISSN: 1869-9391, **Scopus Indexed, impact factor: 0.18.**
102. M. Muni Babu, R. Praveen Sam, P. Chenna Reddy, "Dynamic Path Selection based Video Transmission in User Preference assisted Adaptive rate control in 5G Multi-RAT Network", International Journal of Computer Networks and Applications, Vol. 8, Issue. 5, Sept-Oct, 2021, **Scopus Indexed**, ISSN: 2395-0455, DOI: 10.22247/ijcna/2021/209984.
103. M. Muni Babu, R. Praveen Sam, P. Chenna Reddy, "A3C based Dynamic BitRate for Video Streaming in 5G Edge Assisted D2D Communication using H.266 with Conv-DBN", International Journal of Engineering Trends and Technology, Vol. 70, Jan, 2022, **Scopus Indexed**, ISSN: 2231-5381, DOI: 10.14445/22315381/IJETT-V70I1P211.

104. M. Sajitha, D. Kavitha, P. Chenna Reddy, "An Optimized Whale based Replication Node Prediction in Wireless Sensor Networks", *Wireless Networks*, Springer, SCI Indexed, Impact factor: 2.475, March, 2022, DOI: <https://doi.org/10.1007/s11276-022-02928-8>, ISSN: 1022-0038, 1572-8196. **(SCI E and scopus)**
105. M. Muni Babu, R. Praveen Sam, P. Chenna Reddy, "A novel cross-layer based priority aware scheduling scheme for QoE guaranteed video transmission over wireless networks", *Multimedia Tools and Applications*, March 2022, Springer, SCI Indexed, Impact Factor: 2.717, <https://doi.org/10.1007/s11042-022-12896-y>
106. P. Suman Prakash, D. Kavitha, P. Chenna Reddy, Delay-aware relay node selectin ofr cluster-based wireless sensor networks, *Measurements: Sensors*, Vol. 24, 2022, ISSN: 2665-9174, DOI: <https://doi.org/10.1016/j.measen.2022.100403>, SCI-Indexed, Elsevier.
107. M. Sajitha, D. Kavitha, P. Chenna Reddy, "Clone Node Detection in Heterogeneous WSN with low memory overhead", *International Journal of Recent Technology and Engineering*, Vol. X, Issue. X, Jan. 2021, ISSN: 2277-3878. vol.11, pp. 21-26, 2022. DOI:10.35940/ijrte.C7206.0911322 **(Indexed in scilit, Google Scholar)**
108. Sajitha M, Dr. D Kavitha, Dr. P. Chenna Reddy, "An Optimized Clone Node Detection in WSN using Cuckoo Filter", *SN Computer Science*, vol.4, 167, 2023. DOI:10.1007/s42979-022-01586-z **(Indexed in Scopus)**
109. P. Suman Prakash, D. Kavitha, P. Chenna Reddy "A Rapidly-exploring random tree-based intelligent congestion control through an alternate routing for WSNs", *RRT-based intelligent congestion control through an alternate routing for WSN*, vol x, No x, 2021.
110. P. Suman Prakash, D. Kavitha, P. Chenna Reddy, "Multi-Objective Approach to Improve Network Lifetime and Congestion Control Routing for Wireless Sensor Networks", *Advanced Optimization Methods for Uncertainties in Intelligent Industrial System*", doi: 10.24423/comes.383, 49-69, 2022.
111. P. Suman Prakash, D. Kavitha, P. Chenna Reddy, "Machine Learning-Based Optimized Hierarchical Routing Protocols for WSN Lifetime: A Review", *IT in Industry*, Vol. 9, No.2, 2021 ,25-3-2021.
112. P. Suman Prakash, D. Kavitha, P. Chenna Reddy , "Energy and congestion-aware load balanced multi-path routing for wireless sensor networks in ambient environments", *Computer Communications*, <https://doi.org/10.1016/j.comcom.2022.08.012>, Elsevier, Accepted 14 August 2022
113. P. Suman Prakash, D. Kavitha, P. Chenna Reddy , "Safe and secured routing using multi-objective fractional artificial lion algorithm in WSN", <https://doi.org/10.1002/cpe.7098> , 2022, Wiley Publication.
114. D. Usman Bee, P.Chenna Reddy, "Conquering Aquaphobia Through Immersive Therapy", *Journal of North Eastern University*, Volume 26, Issue 02, 2023.

## Conference Publications

1. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Performance analysis of adhoc network routing protocols", in Proc. of ADCOM 2006 - International Symposium on AdHoc and Ubiquitous Computing (ISAHUC'06), Dec 22-25, 2006, NITK, Surathkal, Citations: 60, DOI: 10.1109/ISAHUC.2006.4290671, **Scopus Indexed**.
2. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Quality of Service using IEEE 802.11e", in Proc. of 3rd International conference on Mobile Ubiquitous and Pervasive Computing, Dec 18-19, 2006, Vellore Institute of Technology, Vellore
3. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Cross Layer Approach for QOS in Mobile Networks", in Proc. of 5th National Conference on Advanced Computing, Dec. 23-24, 2005, PSG College of Technology, Coimbatore
4. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "QOS in a Heterogeneous Networking Environment", in Proc. of National Conference on Emerging Computational Techniques and their Applications, Oct 22-23, 2005, Jai Narain Vyas University, Jodhpur
5. C. Shoba Bindu, P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Security in Mobile Adhoc Networks", in Proc. of National Conference on Mobile Computing and Networking, Sept 30th to Oct 2nd, 2004, VIT, Vellore
6. P. Chenna Reddy, and A. Anil Kumar Reddy, "e\_Governance – A Step towards Real Democracy", in Proc. of National Conference on Role of Engineers in e\_Governance, Dec 15-16, 2003, S.V. University College of Engg, Tirupati
7. P. Chenna Reddy, A. Anil Kumar Reddy, and Dr. P. ChandraSekhar Reddy, "Multimedia in Adhoc Networks", in Proc. of International Conference on e-Governance and Digital Libraries, Oct. 16-17, 2003, International Institute of Professional Studies, Devi Ahilya University, Indore
8. P. Chenna Reddy, and Dr. P. ChandraSekhar Reddy, "Quality of Service in Routing Protocols for Adhoc Networks", in Proc. of International Conference on Wireless Communication Networks, June 27-29, 2003, SSN College of Engineering, Chennai
9. V. Lokeswara Reddy, Dr. A. Subramanyam, Dr. P. Chenna Reddy, "Implementation of LSB Steganography and its Evaluation for Various File Formats", in Proc. of International Conference on Recent trends in Computing and Communications, Dec. 18-19, 2010, KCG College of Technology, Chennai
10. V. Lokeswara Reddy, Dr. A. Subramanyam, Dr. P. Chenna Reddy, "An overview of LSB Image Steganography and its Evaluation for Various Bits", in Proc. of National Conference on Network Technologies, Dec. 29, 2010, Sri Venkateswara College of Engineering and Technology, Chittoor
11. N. Ramanjaneya Reddy, M. Hanumanthu, Dr. P. Chenna Reddy, Dr. M. Padmavathamma, "Secure Data Transmission using Hybrid Technique", in Proc. of International Conference on Recent Advances in Computing Technology, Mar. 30-31, 2011, Bharath University, Chennai

12. V. Lokeswara Reddy, Dr. A. Subramanyam, Dr. P. Chenna Reddy, "Secured File Transmission using LSB Steganography", in Proc. of AICTE Sponsored National conference on High Performance computing and Networking, Aug. 13-14, 2011, Annamacharya institute of technology & sciences, Rajampet, ISBN: 978-93-81583-00-5.
13. Pathan Mohd. Shafi, Dr Abdul Sattar, Dr P. Chenna Reddy, "Extending Public Key Cryptography with Kerberos Authentication Protocol to Location Based Security", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
14. R.Lalu Naik, Dr P. Chenna Reddy, U.Sathish Kumar, M.L.Gangadhara Rao, "Multiparty Secure Communication by using Quantum Key Distribution Protocols", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
15. V.Lokeswar Reddy, Dr A.Subhramanyam, Dr P. Chenna Reddy, "Implementation of LSB Image Stengography", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
16. R.Siva Sankara Reddy, Dr P. Chenna Reddy, "Clustering Techniques based on Generalizations of Graph Partitioning", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
17. A.L. Srinivasulu, Dr P. Chenna Reddy, "Distributed Data Aggregation with Geographical Routing for Maximizing Lifetime of Wireless Sensor Networks", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
18. T.Sunil Kumar Reddy, Dr.P.Venkat Krishna, Dr P. Chenna Reddy, "An Analysis of Various Task Scheduling Algorithms In High Performance Computational Grids", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
19. Geeta Reddy J, N.Uday Bhaskar, Dr P. Chenna Reddy, "A Framework for XML Web Services Retrieval With Ranking ", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
20. N.Ramanjaneya Reddy, Dr P. Chenna Reddy, Prof M. Padmavatamma, "Design of a new Security Protocol Using Cross-Cipher Stream", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula
21. B.Jagadeesh, P.Rajesh kumar, Dr P. Chenna Reddy, "An Image Watermarking Scheme Based On Discrete Cosine Transform Using Genetic Algorithm", in Proc. of UGC Sponsored 1<sup>st</sup> National Conference on Communications, Networking and Mobile Computing, Jan. 20-21, 2012, JNTUA College of Engineering, Pulivendula.



22. V.Lokeswar Reddy, Dr A.Subhramanyam, Dr P. Chenna Reddy, "SteganPEG Steganography + JPEG", in Proc. of IEEE International Conference on Ubiquitous Computing and Multimedia Applications, April. 13-15, 2011, Hannam University, Daejeon, Korea, Citations: 3, ISBN: 978-1-4577-0571-7, DOI: 10.1109/UCMA.2011.17, **Scopus Indexed..**
23. B.Jagadeesh, P.Rajesh kumar, Dr P. Chenna Reddy, "An Edge Detection based Oblivious Image Watermarking method using Singular value Decomposition", in Proc. Of International Conference on Information and Communication Technology, 24<sup>th</sup> Dec. 2011, InterScience Campus, Chennai
24. M. Jagadeeswara Reddy, P. Suman Prakash, Dr. P. Chenna Reddy,"Homogeneous and Heterogeneous Energy Schemes for Hierarchical Cluster based Routing Protocols in WSN: A Survey", in Proc. Of ITC 2012, Lecture Notes on Electrical Engineering published by Springer, Vol. 150, ISBN: 178-1-4614-3362-0, Aug. 3-3, 2012, pp: 456-459, Citations: 1, DOI: 10.1007/978-1-4614-3363-7\_70, **Scopus Indexed.**
25. T. Nishitha, Dr. P. Chenna Reddy, "Performance Evaluation of AntHocNet Routing Algorithm in Adhoc Networks", in Proc. Of Turing 100 – IEEE International Conference on Computing Sciences, ISBN: 978-1-4673-2647, DOI: 10.1109/ICCS.2012.58, 14-15 Sept, 2012, Lovely Professional University, Phagwara, Punjab, citations: 1, DOI: 10.1109/ICCS.2012.58, **Scopus Indexed.**
26. V.Lokeswar Reddy, Dr A.Subhramanyam, Dr P. Chenna Reddy, "Implementation of Least Significant Bit Steganography and Statistical Steganalysis", in Proc. of ACM CCSEIT-12, Oct. 26-28, 2012, Coimbatore, DOI: 10.1145/2393216.2393328, **Scopus Indexed.**
27. B. Reshma Yusuf, Dr. P. Chenna Reddy,"Evolving Efficient Algorithms using Option trees for Stream Data Mining", in Proc. Of Elsevier International Conference on Emerging trends in Electrical, Communication and Information Technologies, ICECIT-12, 21-23 Dec, 2012, SRIT, Anantapur, pp: 193-202, ISBN: 8131234118.
28. Dr. P. Chenna Reddy, "Use of Self-organization in Computer Network", in Proc. Of International Conference on Mathematical Computer Engineering, Nov. 29-30, 2013, VIT, Chennai, ISBN: 978-93-82338-90-1.
29. Geetha j uday Bhaskar p chenna reddy , "Green Scheduling: Supporting Energy Efficient Scheduling In Hadoop", *CISP 2013*, 2013.
30. B.Jagadeesh, P.Rajesh kumar, Dr P. Chenna Reddy, "Robust Digital Image Watermarking in Discrete Wavelet Transform Domain using Back Propagation Neural Networks", in Proc. Of 2<sup>nd</sup> International Conference on Recent Advances in Mathematical Sciences and Applications.
31. N. Ramanjaneya Reddy, Dr. P. Chenna Reddy, Dr. M. Padmavathamma, "Performance Comparison of TCP, UDP and TFRC in Wired Networks", in Proc. Of IEEE International conference on computational intelligence and communication technology", held during 13-14 Feb. 2015, at Ghaziabad, U.P., DOI 10.1109/CICT.2015.37, pp: 257-263, **Scopus Indexed.**

32. Dr. P. Chenna Reddy, "Analysis of Teaching Computer Programming in Indian Context", in Proc. Of 2<sup>nd</sup> International Conference on Transformations in Engineering Education held during Jan 6-8<sup>th</sup>, 2015 at BMS College of Engineering, Bangalore organized by BMS College of Engineering and Indo-US Collaboration of Engineering Education (IUCEE), eISSN: 2394-1707.
33. RajaSekahar Rajaboina, Dr. P. Chenna Reddy, and Raja Ashok Kumar, "Performance Comparison of TCP, UDP, and TFRC in Static Wireless Environment", in Proc. Of IEEE sponsored 2<sup>nd</sup> International Conference of Electronics and Communication Systems held during 26-27 Feb. 2015, at Karpagam College of Engineering, Coimbatore, Vol.1, pp: 206-212, Coimbatore, DOI: 10.1109/ECS.2015.7124893, ISBN: 978-1-4799-7224-1, **Scopus Indexed**.
34. R.Anusha, Dr. P. Chenna Reddy, "Comaprison of AODV and AntHocNet in Static Wireless Network", in 6<sup>th</sup> International Conference on Advances in Communication, Network and Computing held on 28 Mar. 2015, at Chennai, pp: 28-38, ISSN: 2277-548X.
35. Y. Lakshmi Prasanna, Dr. P. Chenna Reddy, "Analysis of AntHocNet and AODV Performance using NS2", in 6<sup>th</sup> International Conference on Advances in Communication, Network and Computing held On 28 Mar. 2015, at Chennai, pp: 19-27, ISSN: 2277-548X.
36. B. Aruna Kumari, Dr. P .Chenna Reddy, "TCP RENO, SACK and VEGAS Performance Analysis", in 6<sup>th</sup> International Conference on Advances in Communication, Network and Computing held on 28 Mar. 2015, at Chennai, pp: 105-117, ISSN: 2277-548X.
37. B.Jagadeesh, P.Rajesh kumar, Dr P. Chenna Reddy, "Fuzzy Inference System Based Robust Digital Image Watermarking Technique using Discrete Cosine Transform", in Proc. Of International Conference on Information and Communication Technologies, Dec. 3-5, 2014, ISSN: 1877-0509, Kochi, India, Published by Elsevier as Procedia Computer Science, Vol. 46, pp: 1618 – 1625, doi:10.1016/j.procs.2015.02.095, **Scopus Indexed**.
38. G.N. Vivekananda, P. Chenna Reddy, "Critical Analysis of Cross-Layer Approach", in Proc. Of International Conference on Green Computing and Internet of Things, Oct. 8-10, 2015, ISBN: 978-1-4673-7909-0, Greater Noida, New Delhi, India, pp: 12-16, Published by IEEE, DOI: 10.1109/ICGCIoT.2015.7380419, **Scopus Indexed**.
39. D. Renuka, P.Chenna Reddy, "Integrated Classical and Quantum Cryptography Scheme using Thee party Authenticated Key Distribution Protocols", in Proc. Of International conference on Processing of Materials, Minerals and Energy, July 29-30, Ongole, India, Published by Elsevier in Material Today: Proceedings, ISSN: 22147853, **Scopus Indexed, Impact factor: 0.84**.
40. G.N. Vivekananda, P. Chenna Reddy, "Critical Analysis of Congestion control for the Future Networks", Emerging Trends in Electrical, Communications and Information Technologies: Proceedings of ICECIT-2015. Springer Singapore, 2017, pg: 175-182, DOI 10.1007/978-981-10-1540-3\_18, **Scopus indexed, impact factor: 0.15**.

41. N. Ramanjaneya Reddy, Dr.P.ChennaReddy,Dr M. Padmavathama, “ Study the impact of Carmichael function on RSA”, Springer Singapore CCIS 628, August-2016, pg: 752-756. DOI 10.1007/978-981-10-3433-6\_90. **Scopus Indexed, Impact factor: 0.16.**
42. C. Ramakrishnaiah, P. Chenna Reddy, R. Praveen Sam, “Evaluation of starvation problem under saturated loads in IEEE 802.11e”, IEEE International Conference on Emerging Technological Trends (ICETT), 21-22 October 2016, DOI: 10.1109/ICETT.2016.7873651, **Scopus Indexed.**
43. E.Priyanka, Dr. P.Chenna Reddy, “ Performance evaluation of video streaming using TFRC, modified TFRC over wired networks”, IEEE International Conference on Communication and Electronics Systems (ICCES), 21-22 October 2016, DOI: 10.1109/CESYS.2016.7889938, **Scopus Indexed.**
44. B. Jayalalitha, P. Chenna Reddy, “Design of an ANT based routing algorithm for mobile ad-hoc networks”, IEEE International Conference on Communication and Electronics Systems (ICCES), 21-22 October 2016, DOI: 10.1109/CESYS.2016.7889850, **Scopus Indexed.**
45. Thambakuri Samatha, P. Chenna Reddy, “Performance evaluation of TFRC for video streaming over wireless networks”, IEEE International Conference on Communication and Electronics Systems (ICCES), 21-22 October 2016, DOI: 10.1109/CESYS.2016.7889821, **Scopus Indexed.**
46. D. Madhuri, P. Chenna Reddy, “ Performance comparison of TCP, UDP and SCTP in a wired network” IEEE International Conference on Communication and Electronics Systems (ICCES), 21-22 October 2016, DOI: 10.1109/CESYS.2016.7889934, **Scopus Indexed.**
47. P. Shobanbabu, P. Chenna Reddy, “Ant based routing algorithm for videostreaming”, IEEE International Conference on Communication and Electronics Systems (ICCES), 21-22 October 2016, DOI: 10.1109/CESYS.2016.7889857, **Scopus Indexed.**
48. Y. Gangadhar, V. S. Giridhar Akula, P. Chenna Reddy, “A Survey on Geometric invariant watermarking techniques”, In Computational Intelligence and Computing Research (ICCIC), 2016 IEEE International Conference, 15-17 Dec. 2016, pp. 1-5. IEEE, DOI: 10.1109/ICCIC.2016.7919557, **Scopus Indexed.**
49. Vivekananda, G.N., and Reddy, P.C., 2017, February. ESCTP optimized unidirectional delay technique for the efficient video transmission in MANETs. In Electrical, Computer and Communication Technologies (ICECCT), 2017, Feb. 2016, **Scopus Indexed.**
50. Ramakrishnaiah, N. and Reddy, P.C., 2016, September, “Tree based variable length address autoconfiguration protocol for mobile ad hoc networks,” International Conference on Advances in Computing, Communication, & Automation (ICACCA)(Fall), (pp. 1-6). IEEE, DOI: 10.1109/ICACCAF.2016.7748983, **Scopus Indexed.**
51. Ramakrishnaiah, N., Reddy, P.C. and Sahadevaiah, K., 2016, “Performance Analysis of Dynamic Addressing Scheme with DSR, DSDV and ZRP Routing Protocols in Wireless Ad Hoc

Networks.," In Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 1 (pp. 41-50). Springer International Publishing, DOI: 10.1007/978-3-319-30933-0\_5, **Scopus Indexed**.

52. S Madhu, Dr M Bal Raju, Dr P Chenna Reddy "Enhancing Transport of Media Using MAC Layer Based Approach ", 2017 International Conference on Computer Communication and Informatics (ICCCI -2017), 2017.
53. Girija, J., GN Krishna Murthy, and P. Chenna Reddy. "4D medical image registration: A survey." In 2017 International Conference on Intelligent Sustainable Systems (ICISS), pp. 539-547. IEEE, 2017.
54. Girija, J., GN Krishna Murthy, and P. Chenna Reddy. "Comparative study of DWT and DTCWT for 3D Medical Image Registration," International Conference on Advances in computer Science and Technology (IC-ACT'18), 2018.
55. Satyanarayana Reddy Marri, and P. Chenna Reddy, "A Survey on Streaming Adaptation Techniques for QOS and QOE in Real-Time Video Streaming", Proceedings of the Fourth International Conference on Smart Computing and Informatics, Volume 1, Published by Springer, pg: 455-465.
56. Sajitha M, D. Kavitha, P. Chenna Reddy, "A minimal storage overhead Clone Detection in Wireless Sensor Network", IEEE, 2022. DOI:10.1109/ICISTSD55159.2022.10010489 (**IEEE Explore**)
57. M.Srilatha, P.Chenna Reddy," Text to image generation using Generative Adversarial Networks with Adaptive attribute modulation", International Conference on Information and Communication Technology for competitive strategies(ICTCS-2023), (8-9 dec)
58. G.Fayaz Hussain, P.Chenna Reddy,"Exposure Therapy in the treatment of Phobia Using Virtual Reality", International conference on Big Data, Virtual Reality, Information & communication Technologies(BVIRTICON), November 2023.
59. D.Madhuri, P.Chenna Reddy, "Some Issues in the creation of Loved Ones Using Virtual Reality", International Conference on Integration and Transformation with SDGs(ICITS 2024), 15<sup>TH</sup> -16<sup>TH</sup> April 2024.

## Patents

1. Girija J. , Dr Krishnamurthy G N, Dr. Pakanati Chenna Reddy, Dr. Cyril Prasanna Raj P, "METHOD AND APPARATUS FOR 3D AND 4D IMAGE REGISTRATION USING DTCWT SUB BANDS AND 2D NEURAL NETWORK STRUCTURE", Patent Application No: 201841022593, filed on 16<sup>th</sup> June 2018.

### Served as Reviewer for Journals:

1. Served as reviewer for “Journal of the Institution of Engineers (India): Series B”.
2. Served as reviewer for “IEEE Transactions on Industrial Electronics”, published by IEEE, Dec. 2020.
3. Served as reviewer for “*International Journal of Communication Systems*”, published by WILEY, Feb. 2020.
4. Served as reviewer for the conference “ICICCT”, Feb.2020.
5. Served as reviewer for “7<sup>th</sup> IEEE International Advance Computing Conference (IACC - 2017) on 5<sup>th</sup> – 7<sup>th</sup> January 2017, VNRVJIET, Hyderabad, Telangana, India.”
6. Served as reviewer for “International Journal of Wireless Information Networks”, published by Springer.
7. Served as reviewer for “International Journal of Communication Systems”, published by WILEY. Reviewed 3 manuscripts in 2020.
8. Served as reviewer for “IEEE MYSURUCON-2021” - The First edition of the Flagship International conference series of IEEE Mysuru Sub Section in association with IEEE Bangalore section at NAVKIS College of Engineering, Hasan” on 24<sup>th</sup> and 25<sup>th</sup> October 2021

### Projects

| Principal Investigator | Co-Investigator | Title   | Amount                     | Date of Sanction             | Duration | Sponsoring Agency |
|------------------------|-----------------|---|----------------------------|------------------------------|----------|-------------------|
| Dr. P. Chenna Reddy    | NIL             | Using Bio-Inspired Approach for Routing in Adhoc Networks | 4,25,000/- (Major Project) | July 16 <sup>th</sup> , 2013 | 3 Years  | AICTE             |
| Dr. P. Chenna Reddy    | NIL             | Creating Virtual University Environment                   | 11,43,137/-                | Aug. 14 <sup>th</sup> , 2020 | 3 Years  | AICTE             |

### Ph.Ds awarded

1. V. Lokeswara Reddy, “Novel Techniques of Data hiding in Image, Audio and Video: A Steganographic Approach”, At JNTUA, Notified on: 21-4-2015.

2. Pathan Mohd. Shafi, "Risk and Mitigation of Authentication Protocol Kerberos: A Public Key Approach", At JNTUA, Notified on: 10-9-2015.
3. T. Sunil Kumar Reddy, "Adaptive Task Scheduling Algorithm in Grid Computing", At JNTUA, Notified on: 16-9-2015
4. N. Ramakrishnaiah, "A New Address Autoconfiguration Protocol for Mobile Adhoc Networks", At JNTUK, Notified on: 23-August-2016.
5. B. Jagadeesh, "A Novel Approach to Robust Digital Image Watermarking Algorithms Using Artificial Intelligence Techniques", At JNTUA, Notified on: 21-January-2016.
6. R. Lalu Naik, "Secure Quantum Key Distribution Protocols", AT JNTUA, Notified on: 17-October-2017.
7. R. Raja Sehar, "Efficient Multipath Routing Protocols for On-demand Video Streaming in MANETs", At JNTUA, Notified on: 13-December-2017.
8. A.L. Sreenivasulu, "Secure Data Aggregation in Wireless Sensor Networks", At JNTUA, Notified on: 27-02-2018.
9. M V Rathnamma, "Energy Efficient Trust Based Routing Schemes for Mobile Adhoc Networks", At JNTUA, Notified on 30-04-2018.
10. C. Sreedhar, Improving Clustering of DataSets using KM-I2C and Enhancing the Performance of Hadoop based on MQM", At JNTUA, Notified on: 28-05-2018.
11. N. Ramanjaneya Reddy, Performance Enhancement of TCP Friendly Rate Control Protocol Over Wired Networks, AT JNTUA, Notified on: 29-03-2018.
12. S. Madhu, "Cross Layer Design with Security Enhancement for Multimedia Transmission In Wireless Networks", At JNTUA, Notified on: 22-10-2018.
13. G.N. Vivekananda, "Effective Transmission of Multimedia in MANETS using SCTP Multistreaming", At JNTUA, Notified on: 20-12-2018.
14. J. Geetha, "A Decision Modeling Framework for Service-oriented Architecture on Cloud", At JNTUA, Notified on: 21-02-2019.
15. Mrs. Girija J, "Novel Registration Algorithms for 3D/4d Medical Images", At JNTUA, Notified on 13-06-2019.
16. K. Ramesh Rao, "Data Security and Privacy Preserving Mechanisms in Networks", At JNTUA, Notified on 21-12-2019.
17. C. Ramakrishnaiah, "Balancing the Quality of Service Across the Flows in IEEE 802.11e", At JNTUK, Kakinada, Notified on 20-08-2020.
18. Y. Gangadhar, "An Approach for Securing Medical Images using Watermarking Schemes and Improved Discrete Wavelet Transformations", At JNTUH, Hyderabad, Notified on 19/12/2020.

19. A. Srinivasa Reddy, "Novel Algorithm for Enhanced Image Segmentation on Brain Tumor Images using Tailored Social Spider Optimization", At JNTUK, Kakinada, Notified on 28/12/2020.
20. Mrs. Sajitha M, "Detection and Prevention of Replica attacks in Static and mobile wireless sensor networks" At JNTUA, Anantapur, Notified on 07/10/2023.
21. Mr.Perumalla Suman Prakash, "Enhancement of Network Life Time in WSNS using Traffic Aware Cluster based Routing and Load balancing", At JNTUA, Anantapur, Notified on 15/12/2023.