CURRICULUM VITAE

Dr. D. MALLIKARJUNA REDDY

Professor
Department of Mathematics
School of Science`
Hyderabad Campus

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https://sites.google.com/view/drdoodipala10279/home

Professional Background, Career Objective & Research Profile

Education and Training

➢ **Ph.D. in Statistics (2008-2012) Kakatiya University, Warangal**
➢ **M.Phil in Statistics (2007-2008) Periyar University Thamilanadu**
➢ **Post-Graduation: M.Sc. STATISTICS, (1996-1998), Kakatiya University, Warangal**
➢ **Graduation: (1992-1995) B.Sc. (M.P.C), KNR Degree & PG college, Kakatiya University, Warangal**
➢ **Intermediate (1990-1992): M.P.C. Government Junior College, Parkal, Warangal**
➢ **S.S.C: From Government Junior College, Parkal, Warangal**

Certifications

- Awarded Ph.D. Thesis entitled **"Performance Analysis of Internet Router under Self-Similar variable Packet Length Input Traffic-Markovian Approach"** under Prof.M. Krishna Reddy, Department of Statistics, Osmania University, Hyderabad and Prof. P. Malla Reddy, Department of Mathematics, Kakatiya University, Warangal.

- Junior Research Fellow (J.R.F.) from March 2010 -2012, DST Major Research Project (M.R.P.) New Delhi. (Principal Investigator, Dr. P. Malla Reddy)

- Post Graduate Diploma in Computer Methods and Programming from Andhra Pradesh Productivity Council, Hyderabad.

1. Research Excellency Award by Institute of Scholars (InSc), July, 2021

2. Philip M. Morse National Technology Award 2021 in Operations Research by Red Tape International Global technology

3. INDO ASIAN IIP outstanding informative book award by IMRF international Publications on the eve of World Book & Copy right Day April 23,2021.

4. Received State level Best Teacher (Srinivasan Ramanujan Foundation T.S.) Award 2016-17

5. Received Best Teacher Award at college level 2002-2003 (Padmavathi College for Women, Kakatiya University Warangal)

6. Biographical profile published in **EMERALD WHO'S WHO IN ASIA VOL-III | 353, 2018**

Books Published:

1. **Engineering Mathematics For GATE:** S. Chand Publishers.

2. **A.I.P. (American Institute of Physics) Conference Proceedings Volume 2246 (ICMSA-2019) A.I.P. Publishing)** Conference Date: 9–11 August, 2019. ISBN: 978-0-7354-2005
   https://aip.scitation.org/action/showLargeCover?doi=10.1063%2Fapc.2020.2246.issue-1

Book Chapters:

3. Chapter 4: Air Traffic Forecasting Using Time Series Models: New Perspectives Emerging Trends in Engineering Research and Technology Vol. 4,0: Book Publisher International with ISBN 978-93- 0149-56-8 (Print) 978-93-90149-01-8 (eBook)

4. Chapter 1 Research on Time Series Analysis for Long Memory Process of Air Traffic Using ARFIMA Recent Studies in Mathematics and computer Science Vol. 3 | Book Publisher International Print ISBN: 978-93-90149-52-0, eBook ISBN: 978-93-90149-51-3

5. Chapter 6 An Approximate Markovian Model for Cyberspace Switches Using PBS Mechanism under Self-similar Type Variable Length Input Traffic Current Topics on Mathematics and Computer Science Vol. 2, 12 June 2021 , Page 60-74 **Published:** 2021-06-12, https://doi.org/10.9734/bpi/ctmcs/v2/3674D Print ISBN: 978-93-91215-75-0, eBook ISBN: 978-93- 91215-83-5

6. Chapter COVID-19 Patient Arrival Pattern with Self-Similarity at Healthcare Center – Using Queuing Models accepted for Publication as a Chapter in the Book - "Advances & Applications in Mathematical Sciences" with ISBN 978-93-90146-22-2

Patents: 1

Title of the invention: METHOD FOR IMPROVING NETWORK PERFORMANCE

Name of Inventor: 1)Dr. D. Mallikarjuna Reddy 2) Basetty Mallikarjuna 3)Dr.P. Venkata Krishna

Application No.201911000744 A

Publication Date: 10/07/2020

The Patent Office Journal No. 28/2020 Dated 10/07/2020

Abstract: The present invention relates to a method for improving asynchronous network performance by designing an effective strategy for networking devices to handle the forwarding of data packets in a network comprises the steps of modelling the network traffic by markovian arrival module, wherein the network traffic comprises self-similar variable length data packets; setting a threshold value for queuing the data packets in the buffer of networking devices based on priority, wherein low priority data packets occupies the buffer space below threshold level and high priority data packets occupies the buffer space above a threshold value; discarding of low priority data packets when the buffer occupancy crosses threshold level.

Research Projects:

Gandhi Institute of Technology and Management (GITAM), Deemed to be University,
the research proposal, entitled "Internet Traffic Modelling-Markovian Approach" Research
Seed Grants(RSG), for a total amount INR 200,000.00.

Industrial Collaborations :

Collaborating with Dr Akeno Health Care industry.

Dr Akeno is creating a better healthcare model by combining human expertise and artificial
intelligence technology. Dr Akeno has a unique team of doctors, specialists, scientists, and
engineers to create a technology platform of advanced knowledge and make better-informed decisions.
https://www.akenohealth.com

Professional Experience

- **Professor, Department of Mathematics, School of Science, GITAM University, Hyderabad Campus (2013- till date)**
- **Cofounder, Head of Communications (HoC)and Advisor to Dr Akeno Health , INDIA, U.K.**
- **Assistant Professor, Department of Mathematics, School of Technology, GITAM University, Hyderabad Campus (2013- 2019)**
- **Faculty, Department of Mathematics, National Institute of Technology (N.I.T.), Warangal (January 2012 - July 2013).**
- **Faculty, Department of Commerce and Business Management, Kakatiya University, Warangal.**
- **Faculty and Head, Department of Statistics at Padmavathi Degree College for Women, Warangal (July 1998 – March 2008) Affiliated to Kakatiya University**

1. Delivered a lecture on Statistical inference using statistical tools such as MS Exclel & SPSSat Kakatiya Medical college , Kaloji Health University Warangal September 21, 2023

2. Delivered a lecture on Data analysis with parametric inference using statistical tools at Kakatiya Medical college , Kaloji Health University Warangal August 10, , 2023

3. Delivered a lecture on Data Analysis using SPSS at Kakatiya Medical college , Kaloji Health University Warangal July 10, 2023

4. Delivered a lecture on Statistical Analysis of Data Medical research by using MS Excel/SPSSat Kakatiya Medical college , Kaloji Health University Warangal July 10, , 2023

5. Delivered a lecture on Data Analysis @Statistical Methods(Introduction) @LOYOLA ACADEMY, Hyderabad Hyderabad June 29th 2023

6. Delivered a lecture on Sustainable Development Goals Frame works -A Statistical Evidence @LOYOLA ACADEMY, Hyderabad June 29th 2023

7. Delivered a lecture on at Kakatiya Medical college , Kaloji Health University Warangal June, ,01, 2023

8. Delivered a lecture on Parametric & Non Parametric Inference at Kakatiya Medical college , Kaloji Health University Warangal May ,01, 2023

9. Delivered a lecture on Data Analysis using SPSS at Kakatiya Medical college , Kaloji Health University Warangal May ,01, 2023

10. Delivered a lecture on Data Analysis using SPSS at Kakatiya Medical college , Kaloji Health University Warangal June ,01, 2023

11. Delivered a lecture on Parametric & Non Parametric Inference Using SPSS at Kakatiya Medical college , Kaloji Health University Warangal May ,01, 2023

12. Delivered a lecture on SPSS at Kakatiya Medical college , Kaloji Health University Warangal May ,01, 2023

13. Delivered a lecture on SPSS at Kakatiya Medical college , Kaloji Health University Warangal April ,2023

14. Delivered a lecture on Inference at Kakatiya Medical college , Kaloji Health University Warangal March 16, 2023

15. Role of Statistics in Data Science @Hyderabad Institute of Technology & Management HITAM 10.02.2023

16. Delivered a lecture on Inference at Kakatiya Medical college , Kaloji Health University Warangal February 23, 2023

17. Delivered a lecture on Non Parametric Inference at Kakatiya Medical college , Kaloji Health University Warangal January 10 , 2023

18. Delivered a lecture on Parametric at Kakatiya Medical college, Kaloji Health University Warangal December ,01, 2022

19. Delivered a lecture on biostatistics & research methodology at Kakatiya Medical college , Kaloji Health University Warangal November, 2022

20. Delivered a lecture on Data analysis using SPSS @ BITS engineering college Warangal during April 21-22

21. Data Analysis-Univariate,and Bi-variate analysis and hands on, practice, Correlation using SPSS

22. Delivered a lecture on Stochastic Processes Markov Chains –It's Applications at HITAM Hyderabad February 2022

23. Delivered a lecture on DEVELOPING STATISTICAL SKILLS FOR ENHANCING RESEARCH at symbiosis college of arts & commerce Savthipule bhay university pune during 1st week of February 2022

24. Delivered a lecture on Usage and Applications of MS-Excel, in Research Methodology @Nizam College_ Osmania University

25. Delivered a lecture Use of statistics in Physical education M Ped. Students Kakatiya University Warangal April-2021

26. Contributed as a Resource Person to the Webinar on Research in Use of Data Analysis English Language Teaching 15 - 22 June 2020 organized by Department of English - GSHS, Hyderabad

27. Contributed as a Resource Person to the One-week F.D.P. on Data Science behind Natural Language Processing 6 - 10 July 2020 organized by Department of I.T. - KITS,

28. Delivered a lecture on Hypothesis testing and Data Analysis for Ph.D. scholars, which is a part of Research Methodology in GITAM School of Technology on February 12, 2020

29. Delivered a lecture on Hypothesis testing and Multivariate Analysis for Ph.D. scholars, which is a part of Research Methodology in GITAM School of Pharmacy on January 02, 2020

30. Probability and Statistics for B.SC at City Mahila College, Warangal, 2020.

31. Delivered a lecture on Probability and Statistics SR University Warangal 2019

32. Data Analysis by using M.S. Excel for B.SC statistics students at City Mahila College, Warangal 2019.

33. Operations Research for Management (M.B.A) at University ARTS College, 2015-16 Kakatiya University Warangal.

34. Operations Research for Management (M.B.A) at University ARTS College, 2014 Kakatiya University Warangal.

35. Operations Research for Management M.B.A at Sri Gayatri PG College, Mulug Road Kakatiya University Warangal.

36. Biostatistics for M.Sc. Microbiology at Kakatiya Govt. Degree & P.G. College, Hanamkonda, Kakatiya University Warangal.

37. Bio-Statistics for M.Sc. Microbiology Students, December-2012 at Palamur University, Palampur Telangana State

38. Delivered a Guest Lecture on Bio-Statistics for M.Sc. Microbiology Students on October 28, 2010, December-2012 at Palamur University, Palampur, Telangana State

39. Probability & Statistics B.C.A, M.B.A & M.C.A at L.B. College, IGNOU, Warangal.
40. Operations Research for M.Sc. (Mathematics) SDLCE, Kakatiya University, Warangal.
41. Probability & Statistics for M.C.A at University college Kakatiya University, Warangal.
42. Probability & Statistics for M.B.A at Department of Business management Kakatiya University, Warangal.
43. Operations Research for M.B.A at Department of Business management Kakatiya University, Warangal.
44. Probability & Statistics for B. Tech I.T. & C.S.C. at Mother Teresa Institute of Science & Technology, Karimnagar. Affiliated to JNTU
45. Biostatistics and Computer Applications for B. Pharmacy at Sahasra Institute of Pharmaceutical Sciences, Kakatiya University Warangal.
46. Biostatistics and Computer Applications for B. Pharmacy at Blue Birds College of Pharmaceutical Sciences, Kakatiya University Warangal.

47. Probability and Statistics for B.SC, M.B.A & M.C.A at Thushara College, Warangal.

48. Probability and Statistics for B.SC, at Bharathi Degree College, Warangal.

Research Guidance
1. Ph D

No of Scholars Registered: 10 Awarded: 4   Submitted: 1

sno	Reg. No	Name	Area of Research/Title	Status
1	1264014416	Pushpalatha Sarla	Performance Analysis Of Self-similar Behavior Input Traffic Data Using Queuing Techniques	Awarded(2019-20)
2	1264015408	Dingari Manohar	Analytical Study of Air Traffic Using Arfima Time Series Models	Awarded(2020-2021)
3	1264016201	T Vamshikrishna	An Empirical Study on C.P.I. Inflation in India - Time Series Analysis	Awarded (2020-2021)
4	1264016406	M Rajender	Time series	Ongoing
5	1264016413	A M Girija(Submitted)	Analytical Study Of Self-Similar Behavior Patients Data At Hospital Using M/M/1 Model	Awarded 31/7/23
6	221962104503	Narige Kiran	Time series	Ongoing
7	221962104505	Pappula Ashok	Timeseries	Ongoing
8		Nagesh	Time series	Ongoing
9		Madhukar Vangala	Queuing Theory	Ongoing
10		Uppalaiah	Queuing Theory	Ongoing

2.   MSc (Data Science) Major Project

No of students Registered: 9   Submitted: 9   Awarded: 9

sno	Reg. No	Name	Area of Research/Title	Status
1	222022502018, 222022502017	Kammari Lakshimi Sahithi, Madikonda Mounika	Stock Price Prediction Using Long Short Term Memory (LSTM) Model	Completed
2	222022502024 222022502015	Nitin Swami S R Erica Maria	Short Term Water Demand Forecasting	Completed
3	HP21CSCI0200024, HP21CSCI0200006	M Rohith Kumar Reddy, L. Madhu	Prediction of Earth quake impact s Uisng ML Techniques	Completed
4	HP21CSCI0200050	M Ravali	Data Augmentation in the sound classification of Animal	Completed

3.   BSC(Data Science) MINOR Project

No of students Registered: 9   Submitted: 9   Awarded: 9

sno	Reg. No	Name	Area of Research/Title	Status
1	222012805001 222012805006	Shazia Surya Bhavana	Impact of Organizational Culture on performencae of eployees I.T. Sector	Completed

	222012101003			
2	222012805012 222012805020	R.Supraja K.Poojitha	Principal Component analysis using ML algorithms	Completeed

1. Course Coordinator for BSC Mathematical sciences
2. Faculty Mentor since 2020
3. Program Coordinator Moodle
4. Treasurer for International Conference ICMSA- 2019
5. Member Scientific Committee for International Conference ICMSA- 2019
6. NAAC Coordinator for Department of Engineering Mathematics, School of Technology,
7. GITAM University, Hyderabad Campus.
8. In charge of Coordinator for B.S.C. (Maths, Stat, C.S.) Course
9. Member for Anti-ragging Vigilance Squad, School of Technology, GITAM University, Hyderabad Campus.
10. Member for discipline committee School of Technology, GITAM University, Hyderabad Campus.
11. Conducted a guest lecture on S.A.S. at School of Science by a lead biostatistician Sudheer Ravula on 15.02.2020
12. member for Discipline/ Crowd management committee member for PRAMANA from 2015-2020
13. Timetable in charge of B.S.C. Mathematical Sciences School of Science
14. Member for Robes Committee convocation day from 2017-2020
15. Mentor Coordinator Department of Mathematics

Skill Highlights

List of courses proficient at M.Sc. level:

- Operations Research/Optimization Techniques
- Probability & Statistics
- Statistical Inference
- Theory of Estimation
- Distribution Theory & Multivariate Analysis
- Time Series Analysis
- Sampling Techniques
- Statistical Quality Control & Reliability
- Stochastic Processes

Conferences/ Webinars/ work shops/F.D.P.: Organized/Contribution

1. Organized a Two-day National level Webinar on Applications of Statistics in   data

science 21 - 22 July 2020 organized by Department of Mathematics - G.S.S., Hyderabad
https://sites.google.com/d/1WLt0PspaZLV2IwaDJoe1Wg6r8mZHMUSA/p/1i7EZ2fmS50fEc8Ucr7sRrDtZx2iZAJUy/edit

2. Contributed as a Resource Person to the Webinar on Research in Use of Data Analysis English Language Teaching 15 - 22 June 2020 organized by Department of English - GSHS, Hyderabad https://sites.google.com/view/drdoodipala10279/home/recent-activities/elt_webinar

3. Contributed as a Resource Person to the One-week F.D.P. on Data Science behind Natural Language Processing 6 - 10 July 2020 organized by Department of I.T. - KITS, Warangal.https://sites.google.com/view/drdoodipala10279/home/recent-activities/fdp-kits

4. **Organized a Two-day F.D.P. on "** Computational Statistics "for C.S.E. faculty GitamSchool of Technology, GITAM Hyderabad during 22-23 December 2020.

5. Contributed as a resource person to 7 days National level Faculty Development Program (F.D.P.) on the theme of; Developing Statistical Skills for Enhancing Research dated from 27th January 2022 to 3rd February 2022

6. Delivered a lecture on Data analysis using SPSS @ BITS engineering college Warangal during April 21-22

7. Delivered a lecture on DEVELOPING STATISTICAL SKILLS FOR ENHANCING RESEARCH at symbiosis college of arts & commerce Savthipule bhay university pune during 1st week of February 2022

Research Profile

Thesis Synopsys: Some problems with networking routers with self-similar variable packet length input traffic are studied. Markovian models of self-similar traffic and queuing theory techniques are employed. Numerical illustrations are given in each case. This thesis contains six chapters, in addition to a list of references cited throughout the idea. Chapter 1 provides the fundamentals of the domain of the research. A literature survey is done in the chapter. Chapter 2 discusses the preliminaries of self-similarity, self-similar traffic generation models, and methods for estimating the Hurst parameter to self-similar traffic. A novel approach based on percentiles is proposed to compute the Hurst parameter. The results of the Markov arrival process (M.A.P.) and that of its case, MMPP switched the Poisson process (SPP) and interrupted the Poisson process (I.P.P.) are brief. A generalized variance-based method to fit the MMPP emulating similar self- traffic is described. In the end, plans to compute the steady-state probability distribution vectors about the transition probability matrix and the transition rate matrix are discussed. In chapter 3, the study of delay behavior in the networking router is made using the MAP/D/1 queuing system. Suppose the packet length is constant. i.e., the service time is deterministic; the Laplace transform of waiting time distribution is turned to be irrational due to the presence of single term e¡s. In this case, the rational approximation is made using the power series method. Waiting time distribution is computed and presented graphically. Further, the mean waiting time against traffic intensity is calculated, and results are presented graphically. Chapter 4 approximates analytical modeling for delay behavior of the router under self-similar

the variable-length packet input traffic.

In this study, voids are taken into consideration. The variable packet length is assumed to follow an exponential distribution, whereas voids follow a uniform distribution. Since the sum of exponential distribution and even distribution is not exponential. To avoid mathematical complexity, the sum of these distributions is assumed to follow exponential with the changed parameter. Mean delay against traffic intensity and delay line unit (DLU) are computed. Chapter 5 proposes an efficient approximate Monrovian model for the router employing a partial buffer sharing mechanism under self-similar variable-length packet input traffic. In this study, voids are taken into consideration, as in chapter 4. We consider two types of traffic viz., high priority traffic and low priority traffic. We make an approximation for 16-MMPP by 2-MAP to avoid computational complexity. Performance measures such as high priority packet loss probability, low priority packet loss probability, and average lengths of critical and non-critical periods are investigated against buffer capacity, threshold, and traffic intensity. In chapter 6, the overall conclusion, future directions, and possible open problems are placed. A list of references mentioned at various places in the entire thesis has been placed in the end.

✦ **Journal Publications: (International)**

1. D Mallikarjuna Reddy, M Rajender Progression of COVID-19 Cases in Telangana State:by using ARIMA- M.L.P. -E.L.P. Prediction Models Computer Integrated Manufacturing Systems, Volume 28 (12), Year 2022, Pages 547-557.(Scopus)

2. Narige Kiran1, D. Mallikarjuna Reddy Forecasting Analysis of International Tourist Arrivals to Hyderabad, India, Using ARIMA Model Mathematical Statistician and Engineering Applications Page Number: 3801 – 3812 Publication Issue: Vol 71 No. 4 (2022)ISSN: 2094-0343, 2326-9865.(Scopus)

3. Gnaneshwer Jadav, Mallikarjuna Reddy Doodipala. (2022). The Role Of Cd28 Costimulatory Receptors In SignallingPathways. Int J Health Policy Plann, 1(1):46-54 (Non Scopus)

4. Manohar Dingari, V. Sumalatha, N. Kiran, "D. Mallikarjuna Reddy. Self-Similar Analysis in Hyderabad Road Traffic" Design Engineering ISSN: 0011-9342 | Year 2021Issue: 8 | Pages: 15885-1589.(Scopus)

5. Manohar Dingari, V. Sumalatha, N. Kiran, D. Mallikarjuna Reddy. (2021). Air Traffic Data Analysis Using Seasonal ARIMA. Design Engineering, 15876-15884. Retrieved from http://www.thedesignengineering.com/index.php/DE/article/view/6726 (Scopus)

6. AM Girija, Mallikarjuna Reddy, Pushpalatha Sarla "Self-similar characteristics of covid-19 patient arrival at Healthcare center study using Queuing models" Turkish Journal of Computer and Mathematics Education Vol.12 No.3(2021), 4776-4791 (SCOPUS)

7. Radhakrishna Muttineni1, Nagamani, Thrilok Chander, Raja Rao, Kalyani Putty, Pankaj Singh Dholaniya, Ravi Kumar P, Sunitha P, Saritha S5, Shekar, Mallikarjuna Reddy D, Amit A. Upadhyay, Steven E Bosinger, Rama R Amara and Anand K Kondapi "Clinical and whole genome characterization of SARS-CoV-2 in India" February 2, 2021 PLoS O.N.E. 16(2): e0246173. https://doi.org/10.1371/journal.pone.0246173 (SCOPUS)

8. D. Mallikarjuna Reddy, M. Rajender "COVID-19 Positive Cases in India-ARIMA Time Series Modeling" Sambodhi (U.G.C. Care Journal) ISSN: 2249-6661 Vol-43, No.-02. PP 237-246 Nov-Dec 2020

9. AM Girija, D. Mallikarjuna Reddy, Pushpaltha Sarla "Analysis of Patients Arrival and Improvement of Service Facilities in Ballari District Hospital" Vol. 63 No. 6 (2020), Solid State Technology ISSN 0038-111X. (SCOPUS)

10. ThanduVamshi Krishna, D Mallikarjuna Reddy "Estimation of C.P.I. Core Inflation of India Using Self-similarity Index" Sambodhi (U.G.C. Care Journal) ISSN: 2249-6661 Vol-43, No.-02. PP 130-149 Nov-Dec 2020

11. P. Ramya. D. Mallikarjuna Reddy, "Impact of Demographic Variables on Organizational Culture Dimensions -I.T. Sector" Sambodhi (U.G.C. Care Journal) ISSN: 2249-6661 Vol-43, No.-02. PP 168-178 Nov-Dec 2020.

12. Pushpalatha Sarla, D Mallikarjuna Reddy, Manohar D, Ravikiran G "Analytical study on Air India Traffic Using Artificial Neural Networks" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022097 IOP Publishing doi:10.1088/1757-899X/981/2/02209. (SCOPUS)

13. Pushpalatha Sarla, Mallikarjuna Reddy Doodipala and Purushotham Endla "Performance of Vehicle Arrival Traffic Data at Fuel Station using Queuing System" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022080 IOP Publishing doi:10.1088/1757-899X/981/2/022080(SCOPUS)

14. PushpalathaSarla, Mallikarjuna Reddy, Archana Reddy "Analysis of Self-similar Nature Vehicle Arrival Data Pattern on Arterial Roads" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 032001 IOP Publishing doi:10.1088/1757-899X/981/3/03200. (SCOPUS)

15. Thandu Vamshi Krishna, D. Mallikarjuna Reddy "Self-Similar Behavior of Cpi Headline Inflation and The Role of Hurst Exponent in Determining Cpi Core" Advances in Mathematics: Scientific Journal 9 (2020), no.11, 9377–9392 ISSN: 1857-8365 (printed); 1857-8438 (electronic) https://doi.org/10.37418/amsj.9.11.43. (SCOPUS)

16. **D Mallikarjuna Reddy** and Pushapalatha Sarla. Mean delay model of the router under self-similar variable packet input traffic. Journal of Mathematical Problems, Equations and Statistics. 2020; 1(1): 04-09.

17. Pushpalatha Sarla, D. Mallikarjuna Reddy, AM Girija, G. Swamy Reddy "Self-similar Characteristics of Vehicle Arrival Pattern Toll Plaza and Implication of M/M/1 Queuing Model," Journal of Critical Reviews, Vol. 7, Issue.15, August 2020. (SCOPUS)

18. **D. Mallikarjuna Reddy** "Implication of ARIMA Time Series Model on COVID-19 Outbreaks in India" International Journal of Management and Humanities (IJMH) ISSN: 2394-0913, Volume-4 Issue-11, July 2020(U.G.C. Care list)

19. D. Mallikarjuna Reddy, P. Ramya "The Effect of Organizational Culture and Stress on Employee Loyalty: A Study from I.T. Industries International Journal of Economics and Management Studies" Volume 7 Issue 2 pp 97-102, Feb 2020. (U.G.C. Care list)

20. Manohar Dingari, **D. Mallikarjuna Reddy**, V. Sumalatha Air Traffic Forecasting using Time Series Models International Journal of Recent Technology and Engineering (IJRTE) Volume-8 Issue-4, November 2019 (SCOPUS)

21. Manohar Dingari, **D. Mallikarjuna Reddy**, V. Sumalatha Air Traffic Forecasting Using Artificial

Neural Networks International Journal of Scientific & Technology Research Volume 8, Issue 10, October 2019 (Issn 2277-8616) (SCOPUS)

22. Manohar Dingari, **D. Mallikarjuna Reddy**, V. Sumalatha Time Series Analysis for Long Memory Process of Air Traffic Using Arfima International Journal of Scientific & Technology Research Volume 8, Issue 10, October 2019 (Issn 2277-8616) (SCOPUS)

23. Anand Dohare B. Mallikarjuna **D. Mallikarjuna Reddy D**. Arun Kumar Reddy Mohd.Shahzad Avoid Delay of Packets and Improve the Behavior of Switch/Router under Self- Similar- Type Variable Input Traffic International Journal of Computer Trends and Technology (IJCTT) – Volume 67 Issue 6 - June 2019(SCOPUS)

24. Manohar Dingari **D. Mallikarjuna Reddy**, V. Sumalatha Self -Similar Performance of Passengers Arrival Pattern of Air India-Domestic Services IJRAR June 2019, Volume 6, Issue 2 www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138) (U.G.C. Care list)

25. Pushpalatha Sarla, **D. Mallikarjuna Reddy** Self- similar Behavior Highway Traffic Analysis –Using Queuing Systems International Journal of Computer Sciences and Engineering (ISSN: 2347-2693), Vol.7, Issue. March 03, 2019.

26. **D.Mallikarjuna Reddy** Ramya Patlolla The Effect of Organizational Culture on Organizational Performance Metrics - A Study in I.T. Sector from a State Capital Hyderabad Region IJRAR June 2019, Volume 6, Issue 2 www.ijrar.org (E-ISSN 2348-1269, P- ISSN 2349-5138).

27. **Doodipala Mallikarjuna Reddy**, Thandu Vamshi Krishna, B. Mallikarjuna "Analytical Study of Internet Routers Under Self-Similar Network Traffic with Voids", Computing Communications, and Data Engineering Series Elsevier. Volume No 01 Issue No 03 2018. (SCOPUS)

28. **D. Mallikarjuna Reddy**, P. Ramya A Study of Organizational Culture Performance in It Sector from Hyderabad, International Journal of Engineering & Technology, Volume 7 Issue 2.32) PP 545-549, 2018. (SCOPUS)

29. P. Ramya, **D. Mallikarjuna Reddy** A Study on Demographic Profile of Employees and Organizational Performance in Information Technology (I.T.) Sector from Select Region Vol.–V, Issue –4(2), October 2018 International Journal of Management Studies ISSN(Print) 2249-0302 ISSN (Online)2231-2528.

30. P. Ramya, **D. Mallikarjuna Reddy**, "Distracting the Indian Telecommunications Sector: An Analytical Study on Reliance J.I.O. Network" in American Journal of Marketing Research Vol. 4, No. 2, 2018, pp. 34-44 June 2018.

31. P. Ramya, **D. Mallikarjuna Reddy** "The Effect of Organizational Culture Dimensions on Organizational Performance: A Study from I.T. Companies in a State Capital" in The Indian Management Researcher U.G.C. Approved Journal- 43009, July – December 2017 ISSN 2349-2090.

32. P. Ramya, **D. Mallikarjuna Reddy** "Factors influencing the choice of the B-School decision of students" in International Journal of Applied Services Marketing Perspectives Volume 6, Number 1, January – March 2017 ISSN (print): 2279-0977, (online): 2279-0985.

33. P. Ramya, **D. Mallikarjuna Reddy**, M. Jaya sree "The Effect of I.T. Employees Demographic Profileon Sensitivity of Organizational Culture: A Study of Selected I.T. Companies in State Capital Region" in American Journal of Industrial and Business Management, 2017, 1111-1119 http://www.scirp.org/journal/ajibm ISSN Online: 2164-5175 ISSN Print: 2164-5167.

34. **D.Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Self-Similarity Analysis of Web Users Arrival Pattern at Selected Web Centers." American Journal of Computational Mathematics, Vol.6 No.1, Mar 2016.

35. **D.Mallikarjuna Reddy**, D. Rajaiah, P. Malla Reddy, M. Krishna Reddy "Delay Behavior of Internet Router under Self-Similar Traffic via Rational Approximations with MAP/D/1 Queueing System" Int. J. Communication Networks and Distributed Systems, Vol. 14, No. 2, 2015. (SCOPUS)

36. **D. Mallikarjuna Reddy** M. Chandra Paul, A. Vinaya Babu, Malla Reddy Perati "Analytical Models for Delivery Performance of a Supplier or a Service Provider" American Journal of Industrial and Business Management, Scientific Research, 2013, 3, 39-42

37. **D. Mallikarjuna Reddy** "Second-Order Statistics of Time Series of Various Real-Time Problems in Conjunction with Periodogram Technique" International Journal of Latest Trends in Engineering and Technology Vol. 3 Issue 1 2013.Malla Reddy Perati, **Mallikarjuna Reddy Doodipala** "Two Performance Tools for Insurance Industry "International Journal of Business Management for Tomorrow, volume 3, Issue 6, 2013.

38. **D. Mallikarjuna Reddy**, L. P. Raj Kumar, and Malla Reddy Perati, "Approximate Modeling for Delay Behavior of the Switch under Self-Similar Variable Length Packet Input Traffic," IAENG Transactions on Engineering Technologies, published in American Institute of Physics, (A.I.P.) Volume 1373, pp.113-122. (SCOPUS)

39. **D.Mallikarjuna Reddy** K. Raghavendra, K.H.K. Reddy, D. Rajaiah, Malla Reddy Perati, "Self-Similar Behavior of Highway Road Traffic and Occupancy Analysis at Toll Plazas" J. Transp. Eng. 2012.138:1233-1238. (American Society for Civil Engineers, (ASCE) (SCOPUS)

40. L.P. Raj Kumar, K. Sampath Kumar, **D. Mallikarjuna Reddy**, MallaReddyPerati, "Analytical Model for Loss and Delay Behavior of the Switch under Self-Similar Variable Length Packet Input Traffic," IAENG International Journal of Computer Science, Vol. 38, Issue 1, 2011. (SCOPUS)

41. Malla Reddy Perati, **D. Mallikarjuna Reddy**, L.P. Raj Kumar, K. Sampath Kumar, performance Analysis of Internet Router Employing Partial Buffer Sharing Mechanism under Markovian Modeled Self-Similar Variable Packet Length Input Traffic", International Journal of Pure and Applied Mathematics, Volume 67 No. 4, pp. 407-421, 2011. (SCOPUS)

42. L. P Raj Kumar, **D. Mallikarjuna Reddy**, Malla Reddy Perati, "Approximate Markovian Model for Delay Behavior of Internet Router under Self-Similar Traffic Input," (published in the Journal of Interdisciplinary Mathematics Vol.14(2011), No. (3). pp.321-329 (J.I.M.), Taru Publications (Tayler's and Francis Group) (SCOPUS)

43. Pitta Paramjyothi, A.N.R. Lakshmi, D. Surekha and **D. Mallikarjuna Reddy** "Effect of Football Coaching on total Leukocyte Count," International Journal of Sports Sciences and Fitness (IJSSP), Vol-1(2), 2011. (SCOPUS)

44. Muttineni Radhakrishna, Kharidehal Durga, Ravilla Kondal Rao, Doodipala Mallikarjuna Reddy Anand Kumar Kondapi "Factors associated with the conversion of long-term non-progressors to progressors: A prospective study of H.I.V. perinatally infected pediatric survivors." Indian J Med Res 138, September 2013, pp 322-328. (SCOPUS)

45. D. Mallikarjuna Reddy T. Prabhakar Reddy "The Significance of Statistical Tools in Health and Physical Education - A Study" Indian Journal of physical education and Allied Sciences Volume-1,

No 1, Jan-Jun 2015 ISSN 2395-6895

46. Pitta Paramjyothi, A.N.R. Lakshmi, D. Surekha and D. Mallikarjuna Reddy "Physiological Ocular Changes during normal Pregnancy" National Journal on Basic Medical Sciences Vol - II, Issue – 2: pp.133- 135, (Oct-Dec) 2011.

47. Pitta Paramjyothi, A.N.R. Lakshmi, D. Surekha, and D. Mallikarjuna Reddy "Physiological Changes of Intraocular pressure Pregnancy "BIOMEDICINE" Vol.31; No. 3: pp.364-366, (July - September) 2011.

48. T. PrabhakarReddy, A.N.R. Lakshmi, D. Mallikarjuna Reddy, ParamJyothiPitta "Variation in the Leukocyte counts during and after Exercise among Athletes and Non-athletes." Asian Journal of Physical Education & Computer Science in Sports Vol-1, No.1 pp 252-254.

49. T. Prabhakar Reddy, Prof. Ganta Ramesh, D. Mallikarjuna Reddy "Focus on Health-Related Physical fitness at University level Players." Asian Journal of Physical Education & Computer Science in Sports Vol-1, No.1 pp 250-251.

50. Pitta Paramjyothi, A.N.R. Lakshmi, D. Mallikarjuna Reddy "Physiological eye Changes in Pregnancy" Indian Journal of Physiology and Pharmacology Vol - 52, Number 5, Supplement 2008.

Paper Reviews

As a reviewer, I reviewed more than 50 research articles few of them as follows:

1. *A Review of Modern DNA-Based Steganography ApproachesDoctoral Symposium GITAM: REDUCTION OF THE CIPHER SIZE OF ELLIPTICCURVE CRYPTOGRAPHY*

2. Reviewed more than 10 Articles in ICMSA2019 AIP Proceedings

3. Internal Model Control for Unstable Over actuated Systems with Time Delays(IJACSA) International Journal of Advanced Computer Science and Applications, Vol. XXX, No. XXX, 2020

4. Predicting the Depression of the South Korean Elderly using SMOTE and an Imbalanced Binary Dataset (IJACSA) International Journal of Advanced Computer Science and Applications

5. Performance Analysis of a Graph-Theoretic Load, Balancing Method for Data Center Networks

6. Analyzing Effect of Crowd Formations on Evacuation Plans using Crowd Simulation and Analysis Framework *International Journal of Advanced Computer Science and Applications* February 2020

7. Key Management in IoT: Requirements and Challenges *International Journal of Advanced Computer Science and Applications* January 2020

8. N.F.V. Provisioning in Large-Scale Distributed Networks with Minimum Delay

9. Pattern Recognition-Based Deep Learning Approach in Ultrasonic Computed Tomographic Image for Bone Diagnosis Class Detection

10. Techniques for road traffic light optimization: an overview(Abbreviation) Journal Name

11. Very Deep neural networks for extracting MITE families features and classifying them based on D.N.A. *Scalograms*

12. P0158: Performances evaluation of different algorithms for PCIs self-configuration in LTE. *The 18th IEEE International Conference on Networks (ICON 2012) December 14-16, 2012, in Singapore*

13. P0167: A Unified Comparison of CDMA EVDO Key Performance Parameters in Multi-vendor Environment. *The 18th IEEE International Conference on Networks (ICON 2012) December 14-16, 2012, in Singapore*.

14. Performance Analysis and Enhancement of IEEE 802.11 DCF Contention Window Back off and Retransmission Scheme in the Presence of Noise *International Journal of Communication Systems*

Memberships/Editorials/Reviewer/ Advisor :

1. Life member & Reviewer, Indian Statistics and Probability society (ISPS)

2. Life member & Reviewer, International Association of Engineers (IANG)

3. Life member Operational Research Society of India (ORSI).

4. Life member, International Indian Statistical Association (IISA)

5. Editorial Board Member & Reviewer, International Journal of Mathematics Trends and Technology.

6. Member IEEE

7. International Journal of Advanced Computer Science and Applications (IJACSA).

8. Life member, Association of Mathematics Teachers of India (AMTI)

9. Senior Member, (UACEE). Institute of Research Engineers and Doctors (The IRED)

10. Reviewer for IJRAR publications

11. Member IJRTE

12. Editorial Board Member & Reviewer for IJCTT

13. IAENG Society of Operations Research

14. World Journal of Physical Medicine and Rehabilitation, Remedy Publications

15. E.B. member of the Journal of Mathematical Problems, Equations and Statistics

16. Reviewer for the Journal of Advances in Mathematics and Computer Science

17. Life Member Institute of Science scholars (InSc) India

18. Cofounder, Advisor, Head of Communications (HoC) Dr AkenoAI, UK

19. Advisor & core team member Youth for seva Warangal Chapter

20. Collaborated with Techie Expert Dr Samapth Kumar Katherasal TCS Hyderabad

Conference Proceedings: (International)

1. Madhukar Vangala, D. Mallikarjuna Reddy Mathematical Modelling Approach for Reverse Logistic Management during 9-11 Sept, ICMSEAT, 2022

2. M Nagesh, D. Mallikarjuna Reddy Prediction of Nifty-50 Closing Price indices Built on Traditional ARIMA and ANN Models. During 9-11 Sept, ICMSEAT, 2022

3. Uppalaiah, D. Mallikarjuna Reddy Analysis of Forecasting Algorithms for Wireless Network Traffic System during 9-11 Sept, ICMSEAT, 2022

4. M Rajendar D. Mallikarjun Reddy Analytical Study of Covid-19 Positive Cases in Telangana State Using Time Series - M.L.P. -E.L.P. Prediction Models during 9-11 Sept, ICMSEAT, 2022

5. D. Mallikarjuna Reddy, K.Lakshmi Sahithi, M. Mounika A Study Stock Price Prediction Using Recurrent Neural Network Models during 9-11 Sept, ICMSEAT, 2022

6. Thandu Vamshi Krishna, D Mallikarjuna Reddy CPI CORE INFLATION MEASURE USING EXCLUSION METHOD during 9-11 Sept, ICMSEAT, 2022

7. D. Mallikarjuna Reddy, D. Rajaih Self-Similar Network Traffic Modeling using Pareto Modulated Poisson Process during 9-11 Sept, ICMSEAT, 2022

8. AM Girija, 2Mallikarjuna Reddy Reduction of Delay Time of Patients at a Selected Clinic with self-Similarity Index Using Queuing Systems during 9-11 Sept, ICMSEAT, 2022

9. D. Mallikarjuna Reddy MMPP and its Relevance with Self-Similar Traffic -A Review during 9-11 Sept, ICMSEAT, 2022

10. Gnaneshwer Jadav D. Mallikarjuna Reddy Artificial technology (A.I.) Technology to Reverse Metabolic Diseases during 9-11 Sept, ICMSEAT, 2022

11. Kiran Kumar Bejjanki, Sai Priyanka, D. Mallikarjuna Reddy Centroid-based PF-SMOTE for Imbalanced data during 9-11 Sept, ICMSEAT, 2022

12. P.Ashok, D. Mallikarjuna Reddy, Forecasting of Gold Prices data using Time Series models during 9-11 Sept, ICMSEAT, 2022

13. I Pallavi Jarupula, D. Mallikarjuna Reddy Impact of Kin anthropometric Profile Characteristics as Dynamics on Physical Performance of Athletes during 9-11 Sept, ICMSEAT, 2022

14. D. Mallikarjuna Reddy, Priority Based Evaluation Of Cyberspace Routers Under Self-Similar Variable-Length Packet Input Asynchronous Traffic Proceedings of the International Conference on Advances in Mathematics & Computer Science – 2021. ISBN 978-93-90146-17-8.

15. AM Girija, Mallikarjuna Reddy Covid-19 Patient Arrival Pattern With Self-Similarity At Healthcare Center – Using Queuing Models, Proceedings of the International Conference on Advances in Mathematics & Computer Science – 2021, ISBN 978-93-90146-17-8.

16. D.Mallikarjuna ReddyPushpalatha Sarla, Mallikarjuna Reddy, Archana Reddy, "Analysis of Self-similar Nature Vehicle Arrival Data Pattern on Arterial Roads" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 032001.

17. Pushpalatha Sarla, Mallikarjuna Reddy and Purushotham Endla "Performance of Vehicle Arrival Data at Fuel Station using Queuing Systems" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022080, doi:10.1088/1757-899X/981/2/022080.

18. Pushpalatha Sarla, D Mallikarjuna Reddy, Manohar D, Ravikiran G "Analytical study on Air India Traffic Using Artificial Neural Networks" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022097.

19. Pushpalatha Sarla, D.Mallikarjuna Reddy, Thandu Vamshi Krishna, "Analytical Study of Self-similar Type Traffic Data-Queuing Techniques," *A.I.P. Conference Proceedings* **2246, 020006 (2020);** https://doi.org/10.1063/5.0014432

20. D. Mallikarjuna Reddy, A.M. Girija, Pushpalatha Sarla, "An Application of Queuing System to Patient Satisfaction at a Selected Hospital-A field study" *A.I.P. Conference Proceedings* **2246, 020111**, **(2020);** https://doi.org/10.1063/5.0014439.

21. D. Mallikarjuna Reddy, Thandu Vamshikrishna and Pushpalatha Sarla, "Markovian Model for Internet Router Employing Partial Buffer Sharing Mechanism under Self-similar Traffic" *A.I.P. Conference Proceedings* **2246, 020064 (2020);** https://doi.org/10.1063/5.0014437.

22. **D. Mallikarjuna Reddy**, M. Rajender "COVID-19 Positive Cases in India-ARIMA Time Series Modeling" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020. Department of Science and Humanities,St.Martin's Engineering College, Secunderabad(www.smec.ac.in) ISBN No 978-93-88096-42-3

23. AM Girija, **D. Mallikarjuna Reddy**, Pushpaltha Sarla "Analysis of Patients Arrival and Improvement of Service Facilities in Ballari District Hospital" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020. Department of Science and Humanities, St. Martin's Engineering College, Secunderabad(www.smec.ac.in) ISBN No 978-93-88096-42-3

24. ThanduVamshi Krishna, **D Mallikarjuna Reddy** "Estimation of C.P.I. Core Inflation of India Using Self-similarity Index" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020. Department of Science and Humanities, St. Martin's Engineering College, Secunderabad(www.smec.ac.in) ISBN No 978-93-88096-42-3

25. **D. Mallikarjuna Reddy**, P. Ramya "Impact of Demographic Variables on Organizational Culture Dimensions -I.T. Sector" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020. Department of Science and Humanities, St.Martin's Engineering College, Secunderabad (www.smec.ac.in) ISBN No 978-93-88096-42-3

26. **D. Mallikarjuna Reddy** "The Effect of Organizational Culture and Stress on Employee Loyalty: A Study from I.T. Industries Hyderabad," ISMA 2019 GITAM University, Hyderabad.

27. **D.Mallikarjuna Reddy** "Performance Analysis of Routers Applying PBS Method using Markovian Modelled Self-Similar Variable Input" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

28. **D.Mallikarjuna Reddy**, Thandu Vamshi Krishna, Pushpalatha Sarla, and M. Krishna Reddy A Model for Delay Behavior of the Switch Under Self-Similar Input Traffic with Voids Using Mmpp ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

29. **D.Mallikarjuna Reddy**, Pushpalatha Sarla, Thandu Vamshi Krishna, and M. Krishna Reddy Analytical Study of Self-Similar Type Traffic Data–Queuing Techniques ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

30. Thandu Vamshi Krishna, **D. Mallikarjuna Reddy** and M. Rajendar' A Simple Adaptive Exclusion Based Measure of Core Inflation for India" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

31. A.M. Girija, **D. Mallikarjuna Reddy,** and Santhosh Nallapu Queuing Approach to Patient Satisfaction in Health Care Modeling System at Select Hospitals ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

32. Manohar Dingari, **D. Mallikarjuna Reddy** and V. Sumalatha Self -Similar Behavior of Air Passengers Arrival Pattern of Air India-Domestic Services ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

33. Manohar Dingari, **D. Mallikarjuna Reddy** and V. Sumalatha "Analysis of Air Traffic Data Using Time Series Models" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

34. V. Sumalatha Manohar Dingari Prof.C.Jayalakshmi **D. Mallikarjuna Reddy** "Short Term Road Traffic Flow Forecasting Using Multi-Layer Perceptron Neural Networks" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

35. **D.Mallikarjuna Reddy** and Ramya Patlolla "The Effect of Organizational Culture on Organizational Performance Metrics - a Study in it Sector from a State Capital Region Hyderabad" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

36. **Doodipala Mallikarjuna Reddy**, Thandu Vamshi Krishna, B. Mallikarjuna "Analytical Study of Internet Routers Under Self-Similar Network Traffic with Voids" International Conference Universal computing, Communications and Data Engineering (C-CODE-2018) at Padmavathi Mahila University TIRUPATI Feb 5-7, 2018

37. **D.Mallikarjuna Reddy**, M. Krishna Reddy "Performance Analysis of Internet Routers underSelf-Similar Variable Traffic – Markovian Approach, International Conference on Theory and Applications of Statistics and Information Sciences (TASIS - 2018) January 5 – 7, 2018

38. **D.Mallikarjuna Reddy** and Ramya Patlolla "Measuring Organizational Performance in I.T. Industry – A Field study from I.T. Sector" in One Day International Conference on "Emerging Trends in Business and Commerce (ETiBC-2018)" on6th October 2018 by Department of Management, Narayana Engineering College, Nellore.

39. **D.Mallikarjuna Reddy** and Ramya Patlolla "Disrupting the Indian Telecom Sector: Reliance Jio" in International Conference on Disruption Ideas and Narratives for Management & Leadership on 9th and 10th March 2018 by Hyderabad Business School, GITAM.

40. **D. Mallikarjuna Reddy** and Ramya Patlolla "Analytical Study of Organizational Culture Dimensions on Organizational Performance in I.T. Sector" in U.G.C. – Two Day International Seminar on Human Resource Management Digital Age ISHRMDA-2018 on 24th and 25th February 2018 by Department of Human Resource Management, Acharya Nagarjuna University.

41. **D. Mallikarjuna Reddy** and Ramya Patlolla "Factors influencing the choice of the B-School decision of students" in the two-day International seminar organized by the Department of Management Studies, Bhavan's Vivekananda College of Science, Humanities, and Commerce on 8th and 9th February 2017.

42. **D.Mallikarjuna Reddy**, Pushpalatha Sarla "Priority Based Study of Internet Router under Self Similar Traffic with Voids "International Conference on Innovations and Advancements Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

43. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Queue Length-Busy Time Distribution of Web Users Data with Self Similar Behavior" International Conference on Innovations and Advancements in Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

44. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Self-Similarity Analysis of Web Users Arrival Pattern at Selected Web Centers, ICM-2015

45. **D. Mallikarjuna Reddy**, MallaReddy Perati "Priority Based Study of Internet Router Under Self-Similar Asynchronous Traffic"International Conference on Optimization Modeling and Applications

46. **D. Mallikarjuna Reddy,** L. P. Raj Kumar, and Malla Reddy Perati, "Approximate Modeling for Delay Behavior of the Switch under Self-Similar Variable Length Packet Input Traffic," IAENG Transactions on Engineering Technologies, published in American Institute of Physics, (A.I.P.) Conf. Proc.Volume 1373, pp.113-122.

47. L.P Raj Kumar, **D. Mallikarjuna Reddy**, K. Sampath Kumar, MallaReddyPerati, "Analytical Model for Performance Study of the Switch under Self-Similar Variable Length Packet Traffic," Proceedings of the World Congress on Engineering and Computer Science 2010 (WCECS-2010, IAENG) October 20-22, 2010, San Francisco, U.S.A., Vol I, pp 243-247. (This paper is awarded as one of the best articles in the conference)**.**

48. **D. Mallikarjuna Reddy**, Pushpalatha Sarla "Priority Based Study of Internet Router under Self Similar Traffic with Voids Proceedings of the International Conference on Innovations Advancements in Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

49. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Queue Length-Busy Time Distribution of Web Users Data with Self Similar Behavior Proceedings of the International Conference on Innovations and Advancements in Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

Conferences/ Workshops Attended:

1.

2. Madhukar Vangala, **D. Mallikarjuna Reddy** Mathematical Modelling Approach for Reverse Logistic Management during 9-11 sept, ICMSEAT, 2022

3. M Nagesh ,D. Mallikarjuna Reddy Prediction of Nifty-50 Closing Price indices Built on Traditional ARIMA and ANN Models. during 9-11 sept, ICMSEAT, 2022

4. Uppalaiah, **D. Mallikarjuna Reddy** Analysis of Forecasting Algorithms for Wireless Network Traffic System during 9-11 sept, ICMSEAT, 2022

5. M Rajendar **D. Mallikarjun Reddy** Analytical Study of Covid-19 Positive Cases in Telangana State Using Time Series - M.L.P. -E.L.P. Prediction Models during 9-11 sept, ICMSEAT, 2022

6. D. Mallikarjuna Reddy, K.Lakshmi Sahithi , M. Mounika A Study Stock Price Prediction Using Recurrent Neural Network Models during 9-11 sept, ICMSEAT, 2022

7. Thandu Vamshi Krishna, **D Mallikarjuna Reddy** CPI CORE INFLATION MEASURE USING EXCLUSION METHOD during 9-11 sept, ICMSEAT, 2022

8. D. Mallikarjuna Reddy, D. Rajaih Self-Similar Network Traffic Modeling using Pareto Modulated Poisson Process during 9-11 sept, ICMSEAT, 2022

9. AM Girija**, Mallikarjuna Reddy** Reduction of Delay Time of Patients at a Selected Clinic with self-Similarity Index Using Queuing Systems during 9-11 sept, ICMSEAT, 2022

10. D. Mallikarjuna Reddy MMPP and its Relevance with Self-Similar Traffic -A Review during 9-11 sept, ICMSEAT, 2022

11. Gnaneshwer Jadav **D. Mallikarjuna Reddy** Artificial technology (A.I.) Technology to Reverse Metabolic Diseases during 9-11 sept, ICMSEAT, 2022

12. Kiran Kumar Bejjanki, Sai Priyanka, D. Mallikarjuna Reddy Centroid-based PF-SMOTE for Imbalanced data during 9-11 sept, ICMSEAT, 2022

13. P.Ashok, **D. Mallikarjuna Reddy**, Forecasting of Gold Prices data using Time Series models during 9-11 sept, ICMSEAT, 2022

14. I Pallavi Jarupula, D. Mallikarjuna Reddy Impact of Kin anthropometric Profile Characteristics as Dynamics on Physical Performance of Athletes during 9-11 sept, ICMSEAT, 2022

15. International Workshop on Stress & Coping: Strategies to De-Stress,Organized by Women Empowerment Cell, GITAM (Deemed to be University), Visakhapatnam, AP, India, during 12th & 13th June 2021

16. **D. Mallikarjuna Reddy,** Thandu Vamshi Krishna "A Simple Adaptive Exclusion Based Measure of Core Inflation for India, International Conference (Virtual Mode) on Emerging trends in Statistics and Data Science in conjunction with 40th Annual Convention of ISPS 07-10, September, 2021

17. A. M Girija, **D. Mallikarjuna Reddy** "Analysis of COVID19 Patient Arrival Pattern with Similarity using M/M/1 Queuing Model" International Conference (Virtual Mode) on Emerging trends in Statistics and Data Science in conjunction with 40th Annual Convention of ISPS 07-10, September, 2021

18. K. Rajender, **D. Mallikarjuna Reddy,** M. Nagesh "Time Series Analysis of Covid-19 Cases in Telangana State Using ARIMA- M.L.P. -E.L.P. Prediction Models" International Conference (Virtual Mode) on Emerging trends in Statistics and Data Science in conjunction with 40th Annual Convention of ISPS 07-10, September, 2021

19. Pushpalatha Sarla, **Mallikarjuna Reddy**, Archana Reddy, "Analysis of Self-similar Nature Vehicle Arrival Data Pattern on Arterial Roads" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 032001.

20. Pushpalatha Sarla, **Mallikarjuna Reddy** and Purushotham Endla "Performance of Vehicle Arrival Data at Fuel Station using Queuing Systems" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022080, doi:10.1088/1757-899X/981/2/022080.

21. Pushpalatha Sarla, **D Mallikarjuna Reddy**, Manohar D , Ravikiran G "Analytical study on Air India Traffic Using Artificial Neural Networks" I.O.P. Conf. Series: Materials Science and Engineering 981 (2020) 022097.

22. Participated 53rd Annual Convention of the Operational Research Society of India & International Webinar on "Role of Operations Research during Pandemic" in Association with Operational Research Society of Nepal December 17-20

23. **D. Mallikarjuna Reddy**, M. Rajender "COVID-19 Positive Cases in India-ARIMA Time Series Modeling" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020.

24. AM Girija, **D. Mallikarjuna Reddy**, Pushpaltha Sarla "Analysis of Patients Arrival and Improvement of Service Facilities in Ballari District Hospital" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020.

25. ThanduVamshi Krishna, **D Mallikarjuna Reddy** "Estimation of C.P.I. Core Inflation of India Using Self-similarity Index" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-2020)" Organized on 13th and 14th August 2020.

26. **D. Mallikarjuna Reddy**, P. Ramya "Impact of Demographic Variables on Organizational Culture Dimensions -I.T. Sector" Proceedings of Online International Conference on "Continuity, Consistency, and Innovation in Applied Sciences and Humanities (ICCIASH-

2020)" Organized on 13th and 14th August 2020.

27. **D. Mallikarjuna Reddy** "The Effect of Organizational Culture and Stress on Employee Loyalty: A Study from I.T. Industries Hyderabad," ISMA- 2019, GITAM University, Hyderabad.

28. **D. Mallikarjuna Reddy** "Performance Analysis of Routers Applying PBS Method using Markovian Modelled Self-Similar Variable Input" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

29. **D. Mallikarjuna Reddy**, Thandu Vamshi Krishna, Pushpalatha Sarla, and M. Krishna Reddy A Model for Delay Behavior of the Switch Self-Similar Input Traffic with Voids Using Mmpp ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

30. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Thandu Vamshi Krishna, and M. Krishna Reddy Analytical Study of Self-Similar Type Traffic Data–Queuing Techniques ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

31. Thandu Vamshi Krishna, **D. Mallikarjuna Reddy** and M. Rajendar' A Simple Adaptive Exclusion Based Measure of Core Inflation for India" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

32. A.M. Girija, **D. Mallikarjuna Reddy,** and Santhosh Nallapu Queuing Approach to Patient Satisfaction in Health Care Modeling System at Select Hospitals ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

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35. Manohar Dingari, **D. Mallikarjuna Reddy** and V. Sumalatha "Analysis of Air Traffic Data Using Time Series Models" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

36. V. Sumalatha Manohar Dingari Prof.C. Jayalakshmi D. **Mallikarjuna Reddy** "Short Term Road Traffic Flow Forecasting Using Multi-Layer Perceptron Neural Networks" ICMSA- 2019 9th-11th August 2019, GITAM University, Hyderabad.

37. **Doodipala Mallikarjuna Reddy**, Thandu Vamshi Krishna, B. Mallikarjuna "Analytical Study of Internet Routers Under Self-Similar Network Traffic with Voids" International Conference Universal computing, Communications and Data Engineering (C-CODE-2018) at Padmavathi Mahila University TIRUPATI February 05-7,2018

38. **D. Mallikarjuna Reddy**, M. Krishna Reddy "Performance Analysis of Internet Routers under Self-Similar Variable Traffic – Markovian Approach, International Conference on Theory and Applications of Statistics and Information Sciences (TASIS - 2018) January 5 – 7, 2018

39. **D. Mallikarjuna Reddy**, Pushpalatha Sarla "Priority Based Study of Internet Router under Self Similar Traffic with Voids "International Conference on Innovations and Advancements in

Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

40. **D. Mallikarjuna Reddy** and Ramya Patlolla "Measuring Organizational Performance in I.T. Industry – A Field study from I.T. Sector" in One Day International Conference on "Emerging Trends in Business and Commerce (ETiBC-2018)″ on6th October 2018 by Department of Management, Narayana Engineering College, Nellore.

41. **D. Mallikarjuna Reddy** and Ramya Patlolla "Disrupting the Indian Telecom Sector: Reliance Jio" in International Conference on Disruption Ideas and Narratives for Management & Leadership on 9th and 10th March 2018 by Hyderabad Business School, GITAM.

42. **D.Mallikarjuna Reddy** and Ramya Patlolla "Analytical Study of Organizational Culture Dimensions on Organizational Performance in I.T. Sector" in U.G.C. – Two Day International Seminar on Human Resource Management Digital Age ISHRMDA-2018 on 24th and 25th February 2018 by Department of Human Resource Management, Acharya Nagarjuna University.

43. **D. Mallikarjuna Reddy** and Ramya Patlolla "Factors influencing the choice of the B-School decision of students" in the two-day International seminar organized by the Department of Management Studies, Bhavan's Vivekananda College of Science, Humanities, and Commerce on 8th and 9th February 2017.

44. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Queue Length-Busy Time Distribution of Web Users Data with Self Similar Behavior" International Conference on Innovations and Advancements in Computing -ICIAC 2016, 18th-19th March 2016, GITAM University, Hyderabad.

45. **D. Mallikarjuna Reddy**, Pushpalatha Sarla, Manohar Dingari, "Self-Similarity Analysis of Web Users data at Selected Web Centers, ICM-2015

46. **D.Mallikarjuna Reddy** and Malla Reddy Perati, "A Novel Approach for Measuring Self-Similarity Parameter in Highway Road Traffic at Selected Toll Plazas in India." International conference on fractal and wavelets -ICFW 2013(Kochi)

47. **D.Mallikarjuna Reddy** and Malla Reddy Perati "Priority Based Study of Internet Router Under Self-Similar Asynchronous Traffic" has been accepted for presentation in the International Conference on Optimization Modelling and Applications (OP SEARCH OPTIMA-2012) and workshop held during November 26- December 01, 2012, University of Delhi, New Delhi.

48. **D.Mallikarjuna Reddy**, P. Malla Reddy, Rajah Dasari "Markovian Model for Internet Router Employing Partial Buffer Sharing Mechanism under Self-Similar Variable Length Input Traffic with Voids" in International Conference ISPS at Cochin, Kerala- Dec 2011.

49. **D.Mallikarjuna Reddy**, "Statistical Models for Bio-Efficacy Experiments" in National Seminar on MICROBIAL DIVERSITY- POTENTIAL APPLICATIONS Jan 2012 at Palamur University, Palamur, Telangana State

50. **D.Mallikarjuna Reddy**, "Physiological Changes of Intraocular pressure in three trimesters of normal Pregnancy" in National conference on Basic Medical Sciences, April 2010 Thamila Nadu. (Co-author).

51. **D.Mallikarjuna Reddy** "Physiological Ocular Changes during Pregnancy" in 22nd Anual Conference of Physiological Society of India, Banga1ore Karnatka Basic Medical Sciences, Dec

2010. (Co-author).

52. **D. Mallikarjuna reddy**, T. Prabhakar Reddy "The Significance of Statistical Tools in Health and Physical Education" National conference on Physical Education & Allied Sciences, K.M.C., Warangal 2014.

53. Participated in the F.D.P. program "On quality teaching & research" conducted by GITAM UNIVERSITY, 12-14, JUNE. 2014.

54. Participated in "Two-week main workshop on Fluid Mechanics" conducted by I.I.T. Kharagpur, 20-30 May 2014

55. participated in "Workshop on Aakash Education" performed by I.I.T. Bombay Nov. 2012.

56. Attended Conference on C.F.D. At N.I.T. Warangal 2012.

57. Workshop attended on SPSS, March-2011 C.K.M. College Warangal

58. Participated in National Conference WMVC-10- Kakatiya University-March 2010.

59. Training Programme on MatLab, Graphics, and LaTeX at Kakatiya University-2009

60. Training Programme on Topology at Kakatiya University-2008.

61. Hyderabad Symposium in Probability and Statistics at University of Hyderabad .2008

62. Faculty Development Programme on Research Methodology, GITAM University, Hyderabad, Andhra Pradesh, India; November 28-30, 2013.

63. Workshop on Outcome-based education and curriculum Design, GITAM University, Hyderabad, Andhra Pradesh, India; June 12-13, 2015

64. Faculty Development Program on outcome Based education, GITAM University, Hyderabad, Andhra Pradesh, India; September 26-27, 2014

65. Faculty Development Program for Quality Teaching and Research, GITAM University, Hyderabad, Andhra Pradesh, India; June 12-14, 2014.

66. A Three-Day Workshop on Engineering Optimization Theory and Practice GITAM University, Hyderabad, Telangana, India; December 14-16, 2015.

67. Participated in Two Day Workshop on the Physics of fluids at GITAM University, Hyderabad, Telangana, India, on April 14-16, 2019.

68. Participated in Three Day Workshop on Physics of fluids   GITAM University, Hyderabad, Telangana, India: December 19-21, 2020.

69. Online Faculty Development Program on ARTIFICIAL INTELLIGENCE WITH PYTHON, organized during 18 - 19th JUNE, 2020 by the Department of Computer Science and Engineering. N.R.I. Institute of Technology (Autonomous) JNTUK.

70. Attended National Webinar on "Effective and efficient writing of research papers for web of science,Scopus indexed journal and Conference papers using Typeset Research Studio"

Organized by Department of Electronics & Telecommunication & Central Library, AISSMS COE, Pune on 1st July 2020.

71. attended and participated in "5-day National Level Webinar on Advanced Computer Science Technologies" jointly organized by the Department of C.S.E. & I.T. under ISTE, A.C.M. & C.S.I. Chapters at Bharat Institute of Engineering and Technology (BIET), Hyderabad from June 23 - 27, 2020.

72. 5-day Faculty Development Programme on "Data Handling and Data Visualization using PYTHON" from 22.06.2020 to 26.06.2020 organized by Department of Computer Science and Engineering. SWARNANDHRA INSTITUTE OF ENGINEERING AND TECHNOLOGY Approved by AICTE- New Delhi, Affiliated to JNTUK Kakinada

73. Two Day Online Faculty Development Program on Science and Engineering Leadership, 8th & 9th August, 2020, organized by Department of Mathematics & Humanities, Kakatiya Institute of Technology and Science, Warangal, Telangana, India.

74. One Week (Online) Faculty Development Programme on LaTeX & Technical Report Writing, 25 - 30 May, 2020 organized by Department of Mathematics, Kakatiya University, Warangal, Telangana, in association with Spoken Tutorial, I.I.T. Bombay.

75. National level one week online training on "Sci Lab – Computational Software" organized by Government Degree College for Women (A), Begumpet, Hyderabad, Telangana State, in collaboration with Spoken Tutorial Project, I.I.T. Bombay from 8th June 2020 to 13th June 2020.

76. Recent Advances in mathematics and Statistics, One Week (Online) International Conference, Vishakapatnam ,India,03-Aug-2020

77. Presented paper on Impact of Demographic Variables on Organizational Culture Dimensions -I.T. Sector in the First Online International Conference on "Continuity, Consistency and Innovation in Applied Sciences and Humanities" (ICCIASH-2020) organized by Department of Science and Humanities , St. Martin's Engineering College, Dhulapally, Secunderabad, T.S, India on 13th& 14th August 2020.

78. International webinar ORSI Role of Operations Research during Pandemics Nepal,Nepal,17-Dec-2020

79. "National Webinar in Mathematics & Statistics" Organized by Department of Mathematics & Statistics, University College for Women, Koti, Hyderabad on 24 th June, 2020.

80. One Week National Level F.D.P. (online) on "MATHEMATICAL MODELING & SIMULATION" from 25th to 30th June, 2020, organized by Faculty of Mathematics, Department of Applied Sciences & Humanities, MVSR Engineering College, Hyderabad.

81. Online Short Time Training Program on " MATLAB for ALL" during 04th June to 8th June 2020 organized by the Department of Electrical and Electronics Engineering , S.I.R. M VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bangalore-562157

82. Webinar on "Introduction to Data Science using R" on 03.07.2020 organized by Department of Computer Science and Engineering. SWARNANDHRA INSTITUTE OF ENGINEERING AND TECHNOLOGY Approved by AICTE- New Delhi, Affiliated to JNTUK Kakinada.

83. Outcome Based Education on "Importance of Accreditation to Enhance the Quality in Technical

Education (Certificate of Participation No: A018) in the Two-Day Virtual Workshop on Outcome Based Education dated 25th to 26th March,2021.Sponsored by U.G.C. under Paramarsh Scheme

Details of Junior Research Fellow (J.R.F.) Ship in DST MRP Project:

1. Project Title:

   Performance Study of Internet Router (Packet Switch) Employing Partial Buffer Sharing Mechanism under Markovian Modeled Self-Similar Variable Packet Length Input Traffic.

2. P.I. (Name & Address):

   Dr. P. Malla Reddy, Professor, Department of Mathematics, Kakatiya University, Warangal-506009, Telangana.

3. Junior Research Fellow (Name & Address):

   D.Mallikarjuna Reddy, Department of Statistics Kakatiya University, Warangal.

Research Synopsis (Future Work)

Internet Traffic Modeling, Performance Analysis of Routers & Fitting Procedures-Markovian Approach

Internet Traffic is bursty and self-similar [1-2]. The long-range dependent characteristics of the self-similar traffic severely degrade network performance. Fractal Traffic Models, such as Fractional Brownian Motion (F.B.M.), Fractional Auto-Regressive Integrated Moving Average (FARIMA), etc., although economical, are asymptotic. Therefore, they are not suitable traffic models for the queuing-based performance analysis when the buffer depth is small. There is an argument that traditional short-range dependent (S.R.D.) traffic, such as Markovian arrivals processes (M.A.P.s), could be used to emulate the self-similarity over the desired timescale [3,4]. Hence self-similar Internet traffic input to a router (switch) can be modeled as a queuing system with M.A.P. input. Performance measures such as Packet Loss Probability, Mean Waiting Time against Traffic Intensity, or Buffer Capacity will be computed. All these performance measures involve the steady-state probability vector of M.A.P. Here research problem could be twofold: First, we shall try to fit the self-similar traffic based on second-order statistics of counts using Markovian Models. Second, we shall investigate computing the Markovian System's steady-state vector on matrix geometric solutions lines. From the mathematics perspective, one must compute this steady-state probability vector using geometric matrix solutions. This is interdisciplinary research consisting of Statistics, Computer Science, and Mathematics. Expertise in statistics, as

well as mathematics, is true.

References:

1. W. E Leland, M.S. Taqqu, W. Willinger and D.V. Wilson "on the self-similar nature of Ethernet Traffic" (Extended Version) IEEE/ACM Tran. Network Vol-2 no.1 pp.1-15 Feb-1994.

2. M.Crovella and A. Bestavros "Self-Similarity in worldwide wise web traffic: Evidence and possible causes" proc.1996 ACM SIGMETRICS International Conference on Measurement and Computer modeling System PP.160-169 May-1996.

3. A.T. Anderson and B.F. Nielson "A Markovian approach for modeling packet traffic with long-range dependency. IEEE T.Sel. Areas common Vol.16 No 5. PP 719-738 June-1998.

4. S.K. Shao, M.R. Pareti, M.G. Tsao, H.W. Tsao, and J. Wu, "Generalized Variance based on Markovian fitting for Self-Similar Traffic Modeling" IEICE Trans. com. Vol E84-B No.8 PP 4659-4663, Dec-2005.

Coursera Certifications:

1. Probability and Statistics: To p or not to p? University of London
2. Bayesian Statistics: From Concept to Data Analysis: University of California, Santa Cruz
3. Basic Data Descriptors, Statistical Distributions, and Application to Business Decisions: Rice University
4. Design a Factor Analysis Using Survey Data in Google Sheets
5. Descriptive and Inferential Statistics in R: Coursera Project Network
6. linear regression by python: Coursera Project Network
7. Analyze Survey Data using Principal Component Analysis: Coursera Project Network
8. Introduction to E.D.A. in R
9. Data Analysis and Hypothesis Testing: I.B.M.
10. Basic Statistics in Python (Correlations and T tests)
11. University Teaching, The University of Hong Kong
12. Mathematical Biostatistics Boot Camp 1
13. Probability Theory, Statistics and Exploratory Data Analysis
14. Foundations of Virtual Instruction: University of California, Irvine and offered
15. Introduction to Ordinary Differential Equations: Korea Advanced Institute of Science and Technology(KAIST).
16. Differential Equations for Engineers: The Hong Kong University of Science and Technology.
17. Matrix Algebra for Engineers: The Hong Kong University of Science and Technology
18. Introduction to Business Analysis Using Spreadsheets: Basics
19. Interpret Population and Sample Variances in Google Sheets
20. Calculate Basic Descriptive Statistics in Google Sheets
21. Calculating Descriptive Statistics in R
22. RStudio for Six Sigma - Basic Descriptive Statistics
23. Using Descriptive Statistics to Analyze Data in R
24. Using probability distributions for real world problems in R
25. Building and analyzing linear regression model
26. B Calculating Descriptive Statistics in
27. R Building Statistical Models in R Linear Regression
28. Introduction to Descriptive Statistics Using Google Sheets
29. Statistics For Data Science
30. Type 1 and Type 2 Error Analysis in Google Sheets

Worked as Statistical Analyst for more than 200 proposals/ dissertations/; a few of them are highlighted here.

Project 1: Title: Physiological Eye Changes in Pregnant Women. Client: Dr. ParanJyothi, under Prof.A.N.R. Lakshmi, Head, Department of Physiology, Kakatiya Medical College.

Project 2

Title: Cardinal Association in NIDDM. Client: Dr. Krishna Veni under Prof.A.N.R. Lakshmi, Head, Department of Physiology, Kakatiya Medical College.

Project 3:

Title: Study of 'C' Reactive Protein and Lipid Profile Levels in ACUTE MYOCARDIAL INFARCTION. Client: Dr. Narendhar, Dept of Bio-Chemistry under Dr. Anandham, Dept. of Pharmacology, Kakatiya Medical College, Warangal.

Project 4:

Title: Medical V/S Surgical Methods in Termination Earlier Pregnancy. Client: Dr. Susmitha, Dept. of gynecology C.K.M hospital under Dr. Vivekanandha, Govt.Maternity Hospital, Hanamkonda.

Project 5:

Title: Studies on L-Asparagines anti-leukemic agent produced by FPECIAS of FusaFarim. Client: Mrs.Radhika, Dept. of Biotechnology under Prof.Girisham, Dept. of Microbiology, Kakatiya University, Warangal.

Project 6:
Title: Bio Transformation of Organic Compounds for their Biological activities. Client: Dr. Shyam Prasad, Dept. of Microbiology under Prof.Girisham, Dept. of Microbiology, Kakatiya University, Warangal.

Project 7: Title: Study of Fasting Insulin level in Reproductive Age Women with Normal and Polycystic ovaries. Client: Dr. Surekha, under Prof.A.N.R. Lakshmi, Head, Department of Physiology, Kakatiya Medical College.
Project 8:

Title: A Comparative Analysis of Selected physical & physiological Variables among the University Basketball, volleyball and, Soccer Players. Client: Dr.T. Prabhakar Reddy under the guidance of Prof.G. Ramesh, Department of Education K.U.

Project 9:

Title: Effect of Exercises on various blood Parameters. Client: Dr. Amrutha, Dept. of Physiology, Mamatha Medical College, Khammam.

Project 10:

Title: The comparative study of Lipid Profile in Healthy and Diabetes students.

Client: Dr.P. SriHari, Dept. of Physiology under Prof.A.N.R. Lakshmi, Head, Department of Physiology, Kakatiya Medical College Warangal.

Project 11:

Title: Four Years of Study on Mother-Child Transmission of HIV-AIDS and Prevention.

Client: Dr.Sudeep.M.V under the guidance of Dr.Vivekenandha, Govt.Maternity Hospital, Hanamkonda.

Project 12:

Title: Impact of Computerization on the Performance of Public Sector Bank a Study of Select Banks. Client: Harikanth, Dept. of Commerce and Business Management under Prof. P.Indrasena Reddy Dept. of Commerce and Business Management, Kakatiya University, Warangal.

Project 13:

Title: Impact of Microfinance on Rural Poor in Andhra Pradesh

Client: Nanu Dharavath, Dept. of Commerce and Business Management under Prof. D.Sakriya Dept. of Commerce and Business Management, Kakatiya University, Warangal.

Project 14:

Title: A Study of the Personality Differences among Tribal and Non-Tribal students about their motor fitness.

Client: JathothJethya under the guidance of Prof. K.Ramesh Reddy, Department of Physical Education, Kakatiya University, Warangal.

Project 15:

Title: "Consumer Behaviour in Rural Markets-a Case Study of Warangal District"

Client: M.Kanakaiah, Dept. of Commerce and Business Management under the guidance of Prof Venkateshwarlu Dept. of Commerce and Business Management, Kakatiya University, Warangal.

Date of birth: January 13, 1975.

Father's name: D. Sudarshan Reddy(Late)

Mother's name: D. Anasuya (Late)

Nationality: Indian

Marital status: Married (D. Vasantha Kumari (wife), D. Sreepreetham Reddy (son), B.Tech II year C.S.E. (DataScience))
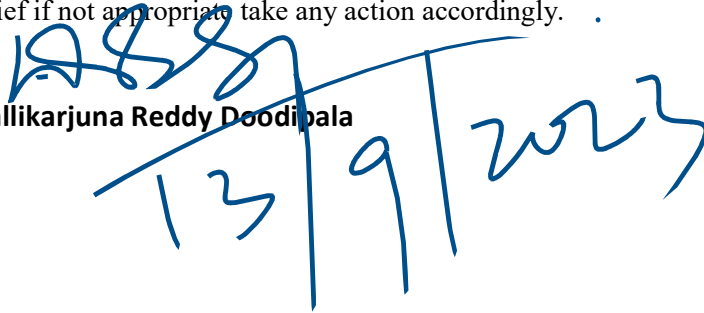
Languages are known as Telugu, Hindi, and English

Permanent Address: 25-34/12/25 flat 301, RC Reddy Nagar Colony RC Puram

Hyderabad 502032

Declaration:

I do with this declare that the information stated above is correct to the best of my knowledge and belief if not appropriate take any action accordingly.   .

Dr. Mallikarjuna Reddy Doodipala

13/9/2023