

Academic Portfolio of Dr. Sridhar Akiri

Dr. Sridhar Akiri

Assistant Professor, Department of Mathematics and Statistics
GITAM School of Science,
GITAM (Deemed to be) University
Rushikonda, Visakhapatnam
Andhra Pradesh, India-530045
Mobile: 9440314342 (Whatsapp)
e-mail: sakiri@gitam.edu, akirisridhar1216@gmail.com



Educational Profile:

PhD	Dept. of OR & SQC, 2012 July Sri Krishna Devaraya University Anantapur, Andhra Pradesh. ID: 93906, Ref. No: SKU/B1/Ph.D/13/2012
Pre-Doctorate	M.Phil. in Statistics (2005-2006) Dept. of Statistics Annamalai University Chidambaram, Tamil Nadu. ID: 422M0552F00035
Post Graduation ¹	M.Sc OR & SQC (1999-2001) Dept. of OR & SQC SKU PG Centre, Kurnool Andhra Pradesh. Aggregate Percentage- 66% ID: 2K410
Post Graduation ²	MBA (2008-2010) Dept. of Management Studies, Alagappa University Karaikudi, Tamil Nādu. Aggregate Percentage- 58% ID: 083301117
Graduation:	B.Sc Mathematics, Physics & Statistics (1995-1998) Maha Raja Autonomous College, Affiliated to Andhra University Vizianagaram. ID: 960152 Aggregate Percentage- 63%

Teaching Experience : 24 Years

Present Status

I have been working as an **Assistant Professor** in the **Department of Mathematics and Statistics at GITAM School of Science, GITAM (Deemed to be University), Visakhapatnam, since June 3, 2013, to the present.**

Past Experience

- Worked as Assistant Professor in B.S&H Department in Vignan's Engineering College for Women from 1st October 2009 to 1st June 2013.

- Worked as Faculty Associate in Cygmax Business School Affiliated to ICFAI University from 1st April 2008 to 30th September 2009.
- Worked as Lecturer and Head, Department of Statistics in TSR & TBK Colleges since 23rd June 2001 to 31st March 2008.

PhD	“Optimization of k-out-of-n Integrated Redundant Reliability Systems” under the esteemed guidance of Dr. Madhusudana Verma S , Professor, Department of OR & SQC, Rayalaseema University, Kurnool, Andhra Pradesh.
M.Phil	“On A Stochastic Job-Shop Scheduling Problem Using Heuristic Procedure” under the esteemed guidance of Dr. Uma Shankar C , Professor, Department of OR & SQC, Rayalaseema University, Kurnool, Andhra Pradesh, Studied in Department of Statistics, Annamalai University, Chidambaram, Tamil Nadu.
M.Sc Project	“Applications of Operations Research” , Tirumala Tirupathi Devasthanam, Tirupati, Andhra Pradesh, done under the esteemed guidance of Dr. Uma Shankar C , Professor, Department of OR & SQC, Rayalaseema University, Kurnool, Andhra Pradesh.

Publications:

Total Publications	26		Indexing	21
Published Papers	23		SCI	01
Accepted Papers	03		Scopus	15
Book Chapters	02		Web of Science	03
Text Book	01		UGC	02

- Sridhar Akiri**, Ramadevi Surapati, Srinivasa Rao Velampudi, Arun Kumar Saripalli, Bhavani Kapu & Peddi Phanibhushan Rao (2025). Optimized Reliability Framework for Series-Parallel Systems: Strategic Redundancy Allocation Using HAM And IPM Solutions, *Journal of Theoretical and Applied Information Technology*, 103 (13), pp. 4896-4911. [Scopus, Q4]
<https://www.jatit.org/volumes/Vol103No13/32Vol103No13.pdf>
- Arun Kumar Saripalli, **Sridhar Akiri**, Rekha Sarode (2025). Statistical Modeling of Daily Average Levels of Carbon Monoxide (CO), Sulfur Dioxide (SO₂), and Nitric Oxide (NO) in Visakhapatnam Using the Burr-XII Distribution, *International Journal of Applied Mathematics (IAENG)*, 55 (04), pp. 742-753. [Scopus, Q3]
https://www.iaeng.org/IJAM/issues_v55/issue_4/IJAM_55_4_04.pdf
- Arun Kumar Saripalli, **Sridhar Akiri**, Rekha Sarode, Vasili B V Nagarjuna, Ramanaiah Malla (2025). Comparative Performance of Burr Type XII 3P, Dagum Type I 3P and Log-Logistic 3P Distributions in Modeling Ozone (O₃), PM₁₀ and PM_{2.5} Concentrations, *Research Journal of Chemistry and Environment*, 29(04), pp. 39-56. [Scopus, Q4]
<https://worldresearchersassociations.com/chemcurrentissue/5.pdf>
- Ramadevi Surapati, **Sridhar Akiri**, Bhavani Kapu, Arun Kumar Saripalli, Sai Uma Shankar Mandavilli & Srinivasa Rao Velampudi (2025). An Integrated Reliability Model for Series-Parallel Systems: Optimizing Redundancy Allocation with Internal Rate of

Return Using Heuristic and Dynamic Programming Approaches, *Journal of Theoretical and Applied Information Technology*, 103 (04), pp. 1487-1502. [Scopus, Q4]
<http://www.jatit.org/volumes/Vol103No4/25Vol103No4.pdf>

5. Arun Kumar Saripalli, **Sridhar Akiri**, Rekha Sarode, Adilakshmi Siripurapu, Ramanaiah Malla (2025). Statistical Distribution Models for Airborne VOCs (Xylene, Toluene and Benzene) in Visakhapatnam using Burr XII 3P, Log-Logistic 3P and Dagum-I 3P Distributions, *Research Journal of Chemistry and Environment*, 29(03), pp. 39-51. [Scopus, Q4]
<https://worldresearchersassociations.com/chemcurrentissue/6.pdf>
6. Ramadevi Surapati, **Sridhar Akiri**, Srinivasa Rao Velampudi, Vasili B V Nagarjuna, Potluri S. S. Swetha & Bhavani Kapu (2025). Enhancing Reliability of Series-Parallel Systems: A Novel Mathematical Model for Redundancy Allocation, *European Journal of Pure and Applied Mathematics*, 18 (01), pp. 01-23 (5672). [Scopus & Web of Science, Q2]
<https://www.ejpam.com/index.php/ejpam/article/view/5672>
7. Bhavani Kapu, **Sridhar Akiri**, Pavan Kumar Subbara, Srinivasa Rao Velampudi & Ramadevi Surapati (2024). A Comparative Study of Lagrangean Multiplier Method and Integer Programming Approach for Efficiency Design in Parallel-Series Configuration, *Communications on Applied Nonlinear Analysis*, 31 (7S), pp. 421-436. [Scopus, Q4]
<https://internationalpubs.com/index.php/cana/article/view/1321/857>
8. Bhavani Kapu, **Sridhar Akiri**, Srinivasa Rao Velampudi, Pavan Kumar Subbara & Ramadevi Surapati (2024). A Detailed Case Study of an Integrated Redundant Reliability Model Using the Parallel-Series Configuration, *Journal of Theoretical and Applied Information Technology*, 102 (11), pp. 4796-4806. [Scopus, Q4]
<https://www.jatit.org/volumes/Vol102No11/11Vol102No11.pdf>
9. S Rao Jammalamadaka, Koushik Ghosh & **Sridhar Akiri** (2024). Testing of Uniformity on the Circle Using Spacing When Data are Rounded, *Statistics and Probability Letters*, 210, pp. 001-007. [SCI, Scopus and Web of Science, Q3]
<https://www.sciencedirect.com/science/article/abs/pii/S016771522400083X>
10. Srinivasa Rao Velampudi, **Sridhar Akiri** & S. Pavan Kumar (2023). Integrated Redundant Reliability Model using k out of n Configuration with Integer Programming Approach, *Statistics and Applications (S&A)*, 10 (01), pp. 137-147. [Web of Science, Q3]
https://ssca.org.in/media/9_SA123122022_SA_22062023_Sridhar_Akiri_FINAL_Finally.pdf
11. Tirupathi Rao Padi, Sarode Rekha, Gulbadin Farooq Dar & **Sridhar Akiri** (2023). Hidden Markov Modeling of Closing Prices with Reference to Indian Bank Shares on Bombay Stock Exchange, *International Journal of Statistics and Reliability Engineering*, 10(03), pp. 656-663. [UGC Care List]
<https://ijsreg.com/article/view/hidden-markov-modeling-of-closing-prices-with-reference-to-indian-bank-shares-on-bombay-stock-exchange-86>
12. Sarode Rekha, **Sridhar Akiri**, Tirupathi Rao Padi & Gulbadin Farooq Dar (2023). Markov Model's Probability Distributions for Study of SBI E-Card Transaction, *International Journal of Statistics and Reliability Engineering*, 10(02), pp. 317-324. [UGC Care List]

<https://ijsreg.com/article/view/markov-model-s-probability-distributions-for-study-of-sbi-e-card-transaction>

13. **Sridhar Akiri**, Sri Sai Swetha & Aravind Battu (2023). Fertility Measures and Mathematical Modeling Predicts of Population Trends in Germany, *Quaders Journal (QJ)*, 11(04), pp. 224-232. [Google Scholar]
https://drive.google.com/file/d/1BmGDYazu7jjGd7JRkn6vFrhMiM_opQHS/view
14. Srinivasa Rao Velampudi, **Sridhar Akiri**, S. Pavan Kumar & Yadavalli VSS (2023). A Comprehensive Case Study on Integrated Redundant Reliability Model Using k-out-of-n Configuration, *Reliability: Theory & Applications*, 18(01), pp. 110-119. [Scopus, Q4]
https://www.gnedenko.net/Journal/2023/012023/RTA_1_2023-09.pdf
15. Srinivasa Rao Velampudi, **Sridhar Akiri** & Kesava Rao Yenda (2022). Design and Implementation of an Integrated Redundant Reliability System for out of Configuration, *Journal of NeuroQuantology*, 20(13), pp. 998-1009. [Google Scholar]
https://www.neuroquantology.com/open-access/Design+and+Implementation+of+an+Integrated+Redundant+Reliability+System+for+K+out+of+N+Configuration_2398/
16. Srinivasa Rao Velampudi, **Sridhar Akiri** & Pavan Kumar Subbara (2022), k-out-of-n Systems Growth Study focusing on Redundant Reliability Systems by using Heuristic Programming Approach, *Mathematical Statistician and Engineering Applications*, 71(04), pp. 5602-5613. [Google Scholar]
<https://www.philstat.org/index.php/MSEA/article/view/1153>
17. Sasikala P, **Sridhar Akiri** & Pavankumar Subbara (2020). Optimization of IRM Series - Parallel and Parallel - Series Redundant System, *Journal Critical Reviews*, 7(017), pp. 1801-1811. [Google Scholar]
<https://jcreview.com/archives/volume-7/issue-17/2450>
18. Y. Raghunatha Reddy, U. Subrahmanyam & **Sridhar Akiri** (2019). Estimation of Reliability Indices of Two-Component Identical Parallel System in the presence of CCS, *Journal of Emerging Technologies and Innovative Research*, 6(06), pp. 148-151. [Google Scholar]
<http://www.jetir.org/papers/JETIR1906U56.pdf>
19. Sasikala, **Sridhar Akiri** & S. Pavan Kumar (2019). Solution of Transportation Problem with South-East Corner Method, North-East Corner Method and Comparison with Existing Method, *Open Access Library Journal*, 6(01), pp. 01-12. [Google Scholar]
<https://www.scirp.org/journal/paperinformation?paperid=92233>
20. B. Surya Prakash, **A. Sridhar** & S. Pavan Kumar (2013). An Inventory Model for Weibull Distributed Deteriorating Items with Inventory Returns and Special Sales, *Indian Journal for Applied Research*, 3(06), pp. 519-521. [Google Scholar]
[https://www.worldwidejournals.com/indian-journal-of-applied-research-\(IJAR\)/fileview/June_2013_1370078599_6654a_174.pdf](https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/fileview/June_2013_1370078599_6654a_174.pdf)
21. **A. Sridhar**, S. Pavan Kumar, Y. Raghunadha Reddy, G. Sankaraiah & C. Umashankar (2013). The k-out-of-n Redundant IRM Optimization with Multiple Constraints,

International Journal for Research in Science & Advanced Technologies, 2(01), pp. 01-06.
[Google Scholar]

22. **A. Sridhar**, S. Pavan Kumar, Y. Raghunadha Reddy, G. Sankaraiah & C. Umashankar (2013). The 3-Stage Optimization of k-out-of-n Redundant IRM With Multiple Constraints, *Indian Journal for Applied Research*, 3(04), pp. 436-438. [Google Scholar]
[https://www.worldwidejournals.com/indian-journal-of-applied-research-\(IJAR\)/recent_issues_pdf/2013/April/April_2013_1364968091_45cc8_144.pdf](https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/recent_issues_pdf/2013/April/April_2013_1364968091_45cc8_144.pdf)
23. P. Sasikala, **A. Sridhar**, S. Pavan Kumar & C. Umashankar (2013). Optimization of IRM Parallel-Series Redundant System, *International Journal of Engineering Research & Technology*, 2(02), pp. 01-06. [Google Scholar]
<https://www.ijert.org/optimization-of-irm-parallel-series-redundant-system>

Accepted Papers:

1. **Sridhar Akiri**, Bhavani Kapu, Peddi Phani Bhushan Rao, Arun Kumar Saripalli & Christophe Chesneau (2025). Optimizing Parallel-Series Configurations for Reliability: Enhancing Integrated Redundancy, *International Journal of Applied Mathematics*, 0(00), pp. 00-00. [Scopus, Q3]
2. Arun Kumar Saripalli, G Sravan Kumar, G Neelima, Sridhar Akiri, P E Satyanarayana (2025). Statistical Analysis of Dietary Patterns, Eating Habits, Demographic and Health Factors Influencing Lifestyle Disorders among Urban Adults: A Survey-Based Study, *IAENG Engineering Letters (International Journal of Applied Mathematics)*, 0(00), pp. 00-00. [Scopus, Q3]
3. Arun Kumar Saripalli, **Sridhar Akiri**, Ramadevi, K Laxmi, Ramanayya M (2025). Modeling daily ambient concentration of nitrogen oxide (NO₂) and Ammonia (NH₃) using 3P Dagum-Type-I distribution, *Research journal of Chemistry and Environment*, 0(00), pp.00-00, [Scopus, Q4]

Book Chapters Published:

1. **Sridhar Akiri**, Pavan Kumar Subbara, P. Sasikala & Venkata S. Sarma Yadavalli (2022). Design and evaluation of parallel-series IRM system, Prashant Johri et al. (Ed.), *System Assurances Modeling and Management*, Academic Press (Elsevier) (pp. 189-208). [Scopus]
2. **Sridhar Akiri**, Pavan Kumar Subbara, P. Sasikala & Venkata S. Sarma Yadavalli (2021). Design and evaluation of coherent redundant system reliability, Amit Kumar and Mangey Ram (Ed.), *Systems Reliability Engineering Modeling and Performance Improvement*, De Gruyter (pp. 137-152). [Scopus]
<https://doi.org/10.1515/9783110617375-009>

Text Book Published:

Pavan Kumar Subbara, **Sridhar Akiri**, P. Sasikala & K. Sharath Babu (2021). *Operations Research and Its Applications*, Shineeks Publishers Pvt. Limited.
<https://shineeks.com/product/operations-research-and-its-applications/>

As A Reviewer:

1. Acting as a reviewer for the journal of **Communications in Statistics - Theory and Methods**, which is an SCI journal with an impact factor of **0.61**, since August 2020.

2. Acting as a reviewer for the journal of **International Journal of Systems Assurance Engineering and Management (IJSA)**, with a high impact factor, since December 2020.

Research Experience:

Successfully guided Two PhD students to completion, submitted Two PhD theses, and currently guiding One Research Scholar.

Sl.No.	Name of the Scholar	Regd. No.	Title of the Thesis	Date of Award
01	Dr. Srinivasa Rao Velampudi	121962101205	A Comprehensive Study and Analysis of k-out-of-n Configuration of Integrated Redundant Reliability Model Using Heuristic and Dynamic Programming	Ph.D. / No. 900 / 2023 [07.11.2023]
02	Mrs. Kapu Bhavani	122062104021	Optimization and Comparative Analysis of Integrated Redundancy Models in Parallel-Series Configurations for Reliability Engineering	Ph.D. / No. 1141 / 2025 [29.04.2025]
03	Mr. Saripalli Arun Kumar	122062104515	Statistical Modelling on Air Pollution Concentrations Using Flexible Probability Distributions in an Urban-Industrial Region: A Case Study of Visakhapatnam, India	Submitted on 13.05.2025
04	Mrs. Surapati Ramadevi	122062104023	Optimizing System Reliability in Series-Parallel Networks: A Unified Redundancy Allocation Model using IRR, Heuristic, Dynamic and Integer Programming Approaches	Submitted on 14.05.2025

Research Scholars On Going:

Sl.No.	Name of the Scholar	Regd. No.	Area	Full/Part Time
01	Mr. Sai Uma Sankar M	122062104510	Vedic Mathematics	Part-Time

Collaborative Research Work:

- Doing collaborative research work with the **distinguished statistician Prof. S Rao Jammalamadaka**, Distinguished Professor, Department of Statistics & Probability, University of California, Santa Barbara, USA & Distinguished Visiting Professor, Department of Mathematics, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India.
- Our collaborative research has resulted in a paper titled “**Testing Uniformity on the Circle using Spacings when Data are Rounded**”, Recently on 16th March, 2024, The paper was published in the esteemed journal of **Probability & Statistics Letters**.

Professional Development and Event Organization Experience:

International Workshop:

Served as **Joint Organizing Secretary** for the **Two-Day International Workshop** on **"Applications of Statistics Using SPSS and SAS"**, from December 20th to 21st, 2019, in the Department of Mathematics, GITAM Institute of Science, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

National Webinar:

Took on the role of **Organizing Secretary** for the **"Mathematical Modeling & Sample Size Determination in Research"** National Webinar on July 11, 2020. The event was jointly organized by the Department of Mathematics, GITAM Institute of Science, and the Directorate of Research & Consultancy, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

Online International FDP:

Served as **Organizing Secretary** for a **One Week Online International Faculty Development Program** on **"Recent Advances in Mathematics and Statistics"** from August 3rd to 8th, 2020. The program was jointly organized by the Department of Mathematics, GITAM Institute of Science, and the Center for Learning & Sustainability, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

National E-Seminar:

Co-convener for a **Two-Day National E-Seminar** on **"Fuzzy Set Theory and Its Applications"** held on December 22nd and 23rd, 2020. The event was organized by the Department of Mathematics, GITAM Institute of Science, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

International Webinar:

Took on the role of **Convener** for a **One-Day International Webinar** on **"Recent Advances in Statistics"** on June 29, 2021. The webinar was organized by the Department of Mathematics, GITAM Institute of Science, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

National E-Seminar:

Organizing Secretary for a **Two-Day National E-Seminar** on **"Recent Advances in Mathematics"** held on December 20th and 21st, 2021. The event was organized by the Department of Mathematics, GITAM Institute of Science, GITAM (Deemed to be University), Rushikonda, Visakhapatnam.

National E-Workshop:

Co-Convener for a **Two-Day National E-Workshop** on **"Data Science & Big-Data Analytics Using R"** held on December 27th and 28th, 2022. The workshop was organized by the Department of Statistics, Andhra University, Visakhapatnam.

International Conference:

Co-Convener for a **Two-Day International Conference** on **"Knowledge Discoveries on Statistical Innovations & Recent Advances in Operations Research (ICON-KSRAO, 2022)"** held on December 29th and 30th, 2022. The conference was organized by the Department of Statistics, Andhra University, Visakhapatnam.

National Workshop:

Organizing Secretary for a **Two-Day National Workshop on "Hands-on Training on Recent Advances in Big Data and Circular Statistics Using R"** scheduled for September 25th & 26th, 2023. The workshop will be organized by the Department of Mathematics, GSS, GITAM (Deemed to be University), Visakhapatnam. Granted Fund **from Rs. 2,00,000/-** from ICMR.

Guest Lectures:

1. Delivered a guest lecture through online mode entitled "Some Glimpses of Probability Distributions & Statistical Quality Control", in Department of Statistics, Government Degree and PG College (A), Anantapur, Andhra Pradesh, Dated 14.03.2022.
2. Delivered a guest lecture on "Applications of the Bio-Statistics" in AVANTHI Pharmacy College, Tagarapuvalasa, Visakhapatnam, Dated 07.06.2014.
3. Delivered a guest lecture on "Applications of the Statistics Quality Control" in Dr. L. Bullayya Degree & PG College, Dated 04.01.2012.

Conferences:

1. International conference on "Operations Research for a Growing Nation in Conjunction with 41st Annual Convention of Operational Research Society of India" during 15th December to 17th December, 2008 held at Dept. of Statistics, SV University, Tirupati, Andhra Pradesh, India.
2. International conference on "Statistics, Probability, Operations Research, Computer Science And Allied Areas" during 4th January to 8th January, 2010 held at Dept. of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
3. International conference on "Development and Applications of Statistics in Emerging Areas of Science & Technology" during 8th December to 10th December, 2010 held at Department of Statistics, University of Jammu, Jammu, India.
4. International congress on "Productivity, Quality, Reliability, Optimization and Modeling" during 7th February to 8th February, 2011 held Indian Statistical Institute, New Delhi, India.
5. International conference on "Frontiers of Statistics and its Applications", during 21st December to 23rd December, 2012 at Pondicherry University, Presented a paper entitled "Optimization k-out-of-n Systems of IRM Multiple Constraints", held at Dept. of Statistics, Pondicherry University, Pondicherry, India.
6. International conference on "Frontiers of Statistics and its Applications", during 21st December to 23rd December, 2012 at Pondicherry University, Presented a paper entitled "A Recursive multistage Estimator for Passive Target Tracking in ESM EW Systems", held at Dept. of Statistics, Pondicherry University, Pondicherry, India.
7. International conference on "Statistics and Information Technology for a Growing Nation" during 30th November to 2nd December, 2014. Presented paper entitled "Design, Modeling and Optimization of an k-out-of-n Integrated Redundant Reliability System" jointly written with S.Pavankumar and Dr. C.Umashankar, held at Dept. of Statistics, Sri Venkateswara University, Tirupati, Andhra Pradesh, India.
8. Two-Day National Conference on "Recent Advances in Mathematics and Mathematical Sciences" Jointly Sponsored by Uttara Andhra Society for Mathematical Sciences (UASMS), Visakhapatnam & Prof. S. Minakshi Sundaram Memorial Society (SMSMS), Visakhapatnam, Dates: 15th & 16th November, 2019, Presented a paper entitled "Solution of Transportation Problem with South-East Corner Method, North-East Corner Method and Comparison with Existing Method".
9. Andhra Pradesh Academy of Sciences, Amaravati & B.R Ambedkar University, Srikakulam, A.P Science Congress - 2019, Focal Theme: Science for Developing Areas,

During 28th November to 30th November 2019, held at Department of Mathematics, B.R.Ambdekar University, Srikakulam, Andhra Pradesh. Presented a paper entitled “On A Stochastic Job-Shop Scheduling Problem Using Heuristic Procedure”.

10. Participated in One-Day Online National Conference on “Integrated Teacher Education Programme: Concerns and Trends”, Jointly organized by CTEF, Kerala, CPAS, CTE, Kudamaloor, Kottayam in collaboration with KSHEC, Thiruvananthapuram, Kerala, India, dated on 18th July 2020.
11. Two-Day National Conference on “Mathematical and Statistical Techniques in Engineering Research-2021” Organized by Department of Mathematics, Maturi Venkata Subba Rao (MVSR) Engineering College (Autonomous), Nadergul, Hyderabad. Dated 8th and 9th November, 2021, Presented a paper entitled “A Comprehensive Case Study on Integrated Redundant Reliability Model using k out of n Configuration”.
12. International Conference on “Recent Advances in Non-Linear Functional Analysis and Its Applications (ICRANFAA-2022)” Organized by Department of Mathematics, Andhra University, Visakhapatnam, India. 29th and 30th January, 2022, Presented a paper entitled “Markov Models for Credit Card Transactions for Growth Study”.
13. International Conference on Mathematical Sciences and Engineering Applications in Technology (ICMSEAT-2022), Organized by Department of Mathematics, Gitam School of Science, GITAM Deemed to be University, Hyderabad Campus, Telangana, India. Dated 9th September to 11th September, 2022. Presented a paper entitled “k out of n systems growth study focusing on redundant reliability systems by using dynamic programming approach”.
14. International conference on “Knowledge Discoveries on Statistical Innovations & Recent Advances in Operations Research (ICON-KSRAO, 2022)” during 29th and 30th December, 2022, Organized by the Department of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India. Presented a paper entitled “Age Heaping and Accuracy of Data Collected in Canada by using UN Index Method”.
15. International conference on “Knowledge Discoveries on Statistical Innovations & Recent Advances in Operations Research (ICON-KSRAO, 2022)” during 29th and 30th December, 2022, Organized by the Department of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India. Presented a paper entitled “Mathematical Modeling Predicts of Population Trends in Denmark, Germany and Spain”.
16. International conference on “Knowledge Discoveries on Statistical Innovations & Recent Advances in Operations Research (ICON-KSRAO, 2022)” during 29th and 30th December, 2022, Organized by the Department of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India. Presented a paper entitled “Integrated Redundant Reliability Model using k out of n Configuration with Integer Programming Approach”.
17. National Conference on “Statistics & Data Science for Progress and Prosperity”, during 23rd & 24th August, 2024, Department of Statistics, Utkal University, Vani Vihar, Bhubaneswar, India. Presented a paper entitled “Reliability Optimization in Series-Parallel Systems: A Novel Mathematical Model Utilizing Internal Rate of Return and Redundancy Allocation”.
18. International Conference on Innovative Trends in Statistics, Optimization, and Data Science (IC-ITSODS-2024)” during December 21-23, 2024 at Department of Statistics and Operational Research, Kurukshetra University, Kurukshetra, Haryana, India. Presented a paper entitled “Optimization of Reliability in Series-Parallel Systems through Integrated Redundancy: An Approach Utilizing Lagrangean Multipliers and Dynamic Programming”.

Chaired a Session in Conference:

1. Acted as **Session Chair for International Conference on “Recent Trends in Mathematics and Its Applications (ICRTMA-2021)”** during 2nd and 3rd December, 2021, organized by the Department of Mathematics, GITAM School of Science, GITAM (Deemed to be University), Bangalore, Karnataka India.
2. Acted as **Session Chair for International Conference on “Knowledge Discoveries on Statistical Innovations & Recent Advances in Operations Research (ICON-KSRAO, 2022)”** during 29th and 30th December, 2022, Organized by the Department of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
3. Acted as **Session Co-Chair for 2nd International Conference on Data Science and Artificial Intelligence (ICDSAI) 2023**, 24-25th, April 2023, Jointly Organized by, California State University (CSUSB), USA, LENDI Institute of Engineering and Technology (A) Vizianagaram, Andhra Pradesh, India.
4. Acted as **Session Chair for International Conference on Innovative Trends in Statistics, Optimization, and Data Science (IC-ITSODS-2024)”** during December 21-23, 2024 at Department of Statistics and Operational Research, Kurukshetra University, Kurukshetra, Haryana, India.

International Workshop (s):

1. International workshop on **“Advanced Mathematical Programming Techniques for Young Teachers and Researchers”** 28th March to 1st April, 2008 held at Dept. of Mathematical Sciences, Dravidian University, Kuppam, Andhra Pradesh, India.
2. International workshop on **“Recent Advances in Mathematical Algorithms and Data Analyses”** 2nd January to 5th January, 2010 held at Dept. of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
3. International workshop on **“Six Sigma, Lean Philosophy & Taguchi Method”** during 4th February to 5th February, 2011 held Indian Statistical Institute, New Delhi, India.
4. International **5-day e workshop** on **“Latex”** during 5th July 2021 to 9th July 2021, Organized by Department of Mathematics, School of Science, GITAM(Deemed to be University), Bengaluru Campus, Karnataka, India.
5. International **5-day e workshop** on **“Integrated Approaches of Stochastic Modelling and Data Science for Sustainable Development”** from 7th to 11th September, 2022, Organized by Department of Statistics, SV University, Tirupati, Andhra Pradesh, India.

National Workshop (s):

1. National Workshop on **“Optimization And Its Applications”**. During 29th November to 3rd December, 2007 held at Dept. of Statistics, University of Delhi, Delhi, India.
2. National Workshop on **“Innovative Quality Practices – Six Sigma and Robust Design for E-Business Excellence”**. During 10th March to 14th March, 2008 held at Dept. of IEM, MSRIT, Bangalore, India.
3. National Workshop on **“Recent Advances in Decision Support Models and Their Applications”**. During 10th December to 14th December, 2008 held at Dept. of Statistics, SV University, Tirupati, Andhra Pradesh, India.
4. One-Week National Workshop on **“Mathematical Modeling for Performance Oriented Heuristic Techniques and its Applications to Industry”**. During 07th December to 11th December 2009 held at Dept. of IEM, MSRIT, Bangalore, India.
5. 5-Day National Workshop on **“Recent Advances and Its Applications in Mathematical Modeling”**. During 1st February to 5th February, 2010 held at Dept. of Applied Mathematics, Sri Padmavati Mahila University (Women), Tirupati, Andhra Pradesh, India.

6. National Workshop on “**Mathematical Models for Befouled Flows & Applications**”. During 22nd January to 26th January, 2010 held at Dept. of Mathematics, SV University, Tirupati, Andhra Pradesh, India.
7. Two-Day National Workshop on “**Knowledge Management**”. During 6th September to 7th September, 2010 held at Dept. of MBA, VIEW, Visakhapatnam, Andhra Pradesh, India.
8. National Workshop on “**An Ancient Indian Mathematics with Special Reference to Vedic Mathematics And Astronomy**”, Held during 20th September to 24th September, 2010 at Dept. of Mathematics, Rashtriya Sanskrit Vidya Peetha, Tirupati, Andhra Pradesh, India.
9. National Workshop on “**Modern Tools in Applied Statistics**”. During 4th December to 7th December, 2010 held at Department of Statistics, University of Jammu, Jammu, India.
10. Two-Day National Workshop on “**Holistic Marketing**”. During 25th February to 26th February, 2011 held at Dept. of MBA, VIIT, Visakhapatnam, Andhra Pradesh, India.
11. National Workshop on “**Recent Advances in Data Mining and Its Applications**” during 11 March to 14th March, 2011 held at Dept. of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
12. National Workshop on “**An Ancient Indian Mathematics with Special Reference to Vedic Mathematics and Astronomy**”. During 24th February to 28th February, 2012 held at Dept. of Mathematics, RSVP, Tirupati, Andhra Pradesh, India.
13. National Workshop on “**Recent Advances in Statistical Signal Processing And Its Applications**”. During 24th August to 27th August, 2012 held at Dept. of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
14. National Workshop on **Data Analysis Using SPSS** on 22nd August, 2013 held at Dept. of Statistics, Andhra University, Visakhapatnam, Andhra Pradesh, India.
15. National Workshop on “**Big Data Analysis**”. During 27th November to 30th November, 2014 held at Dept. of Statistics, SV University, Tirupati, Andhra Pradesh, India.
16. National workshop on ‘**Geospatial Technology for Resource Management at Kurnool District and Sub District Level**’ during 28th and 29th October 2017, Rayalaseema University, Kurnool, Andhra Pradesh, India.
17. Participated in a international workshop on “**Statistical Data Analysis & Interpretation Using SPSS**”, organized by Special Minds, Chennai, Tamilnadu, dated 27.06.20 to 28.06.20.
18. Participated in a Virtual Workshop on “**Data Science and Machine Learning**”, organized by Department of Statistics, Pondicherry University, Pondicherry, dated 29.06.20 to 30.06.20.
19. Participated in a Two-Day Virtual Workshop on “**Outcome Based Education on Importance of Accreditation to Enhance the Quality in Technical Education**”, organized by Internal Quality Assurance Cell (IQAC) - GITAM, GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh, India, dated 25th & 26th March, 2021.
20. Participated in **Catalyst Workshop**, Organized by GITAM (Deemed to be University), Dated 17th -18th May, 2024.

Training Programs:

1. The 4th National Statistics Day & Summer Training Program on “**Advanced Stochastic Models and Their Applications**”. During 29th June to 4th July, 2010 held at Dept. of Statistics, SV University, Tirupati, Andhra Pradesh, India.

2. National training school program on “**Design Modeling and Analysis of Experiments through Taguchi Philosophy and its Applications**”. During 23rd August to 27th August, 2010 held at Dept. of IEM, MSRIT, Bangalore, India.
3. Attended a Training Program on “**Optimization and its Applications**”. During 26th November to 1st December, 2012 held at Dept. of Statistics, University of Delhi, Delhi, India.
4. Attended a Two day Faculty Development Program on “**Teaching & Evaluation Methods**”, During 28th – 29th June 2013 at GIT, GITAM University, Hyderabad Campus.
5. Attended a Two day Faculty Orientation Programme on “**Basics of Pedagogy**”. During 2^{1st} & 2^{2nd}, 2014 held at Center for Learning and Sustainability, GITAM University, Visakhapatnam.
6. Completed NPTEL-AICTE Faculty development program entitled “**Probability & Statistics**” organized by IIT Kharagpur during Jan-April 2019 (12 Week).
7. Participated in 3-Day FDP for the course on “**Computer Science & Business Systems**”, organized by TCS at Indian Statistical Institute, Kolkata, West Bengal, dated from 24.06.19 to 26.06.19.
8. Completed NPTEL-AICTE Faculty development program entitled “**Introduction to Bio Statistics**” organized by IIT Bombay during July-September 2019 (8 Week).
9. Participated in 2-Day FDP on “**Statistical Methods**”, organized by TCS at Synergy Park, Hyderabad, Telangana, India, dated from 04.11.19 to 05.11.19.
10. Participated in 2-Week Online FDP on “**Productivity Tools for Teaching Enhancement**” through the consultancy DSPS, organized by GITAM deemed to be University, Visakhapatnam, Andhra Pradesh, dated from 07.05.20 to 21.05.20.
11. Participated in 5-Day Online FDP on “**Python for Data Science**”, organized by Department of Computer Science & Engineering, Raghu Engineering College(A), Visakhapatnam, Andhra Pradesh, dated from 01.06.20 to 05.06.20.
12. Participated in International Online FDP on “**Emerging Research Areas in Engineering**”, organized by Department of Mechanical Engineering in association with Institute of Engineers(INDIA), SRM Institute of Technology, Chennai, Tamilnadu, dated from 05.06.20 to 09.06.20.
13. Participated in 5-Day Online FDP on “**The hands on training in Python Programming**”, organized by Department of Statistics, DRBCCC Hindu college, In collaboration with Spoken-Tutorial Project, IIT-Bombay dated from 10.06.20 to 15.06.20.
14. Participated in 6-Day Online UGC Sponsored National Webinar on “**Discovering Statistics using R**”, organized by Department of Statistics, KBN College(Autonomous), Vijayawada, Andhra Pradesh, dated from 15.06.20 to 20.06.20.
15. Participated in One Week Online International Faculty Development Program on “**Statistical Trends and Practices in Science and Technology**”, organized by Department of Basic Sciences and Humanities (Mathematics), Aditya Institute of Technology and Management (An Autonomous Institution), K. Kotturu, Tekkali, Srikakulam, Andhra Pradesh, dated from 04.07.20 to 08.07.20.
16. Participated in One Week Online International Faculty Development Program on “**Applications of Mathematics in Science and Engineering**”, organized by Department of Basic Science (Mathematics), Vishnu Institute of Technology, Bheemavaram, Andhra Pradesh, dated 07.07.20 to 11.07.20.
17. Participated in One Week Online Short Term Training Program on “**Applications of Mathematical Sciences**”, organized by Department of Basic Sciences and Humanities, K.D.K College of Engineering, Nagpur, Maharastra, India, dated from 13.07.20 to 18.07.20.

18. Participated in a Five-Day Online Faculty Development Program on “**Recent Trends in Applicable Mathematics**”, Jointly organized by Department of Mathematics, Karunya Institute of Technology & Sciences, Coimbatore, Tamil Nadu, dated 27.07.20 to 31.07.20.
19. Participated in a Five-Day Online Faculty Development Program on “**Applications of Mathematics in Engineering**”, Jointly organized by Department of Mathematics, KPRIET, Coimbatore, Tamil Nadu, dated 27.07.20 to 31.07.20.
20. Participated in Online National Level Faculty Development Program on “**Fundamentals of SPSS and Data Analysis Using SPSS**”, organized by Department of A.S & H (Mathematics), Tirumala Engineering College, Narasarao Peta, Andhra Pradesh, dated 30.07.20 to 31.07.20.
21. Participated in a One Week Online International Faculty Development Program on “**Recent Advances in Mathematics & Statistics**”, Jointly organized by Department of Mathematics, GIS and Center for Learning & Sustainability, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, dated 03.08.20 to 08.08.20.
22. Participated in a One-week online Programme on “**Research Methodology and Data Analytics using SPSS and R**”, Organized by Department of Master of Business Administration, Sree Vidyanikethan Institute of Management, Tirupati, Andhra Pradesh, dated 01.02.21 to 06.02.21.
23. Participated in a Two-Day Training Program on **Data Analysis Using R**, Organized by Department of Applied Psychology, GSHS, GITAM (Deemed to be University), dated 11th – 13th February, 2024.

Quality Improvement Program:

1. Attended QIP short term course on “**Operations Research: Principles and Applications**” at IIT(BHU) Varanasi”, dated from 30.12.2019 to 03.01.2020.

Seminar (s) :

1. National Seminar on “**Recent Advances in Stochastic Modeling and its Applications**” During 10th February to 11th February, 2013. Presented a paper entitled “**The k-out-of-n Redundant IRM Optimization with Multiple Constraints**” organized by Department of Statistics, Andhra University, Visakhapatnam.
2. National Seminar on “**Recent Advances in Data Analytics and its Applications**” During 13th March to 14th March, 2015. Presented a paper entitled “**Optimization of IRM - Parallel-Series Redundant System**” organized by Department of Statistics, Andhra University, Visakhapatnam.
3. National Seminar on “**High Dimensional Data Analysis in Stochastic Modeling and Optimization Methods**” During 9th and 10th December, 2019 organized by Department of Statistics, Pondicherry University, Pondicherry, India.
4. National Web Based Seminar on “**Recent Trends in Statistical Theory and Its Applications - 2020**” During 9th and 10th December, 2019 organized by Department of Statistics, University of Keral Trivendrum, Kerala, India dated 29.06.20 to 01.07.20.
5. “**Recent Trends in Statistical Theory and Its Applications - 2020**” During 9th and 10th December, 2019 held at Department of Statistics, University of Keral Trivendrum, Kerala, India dated 29.06.20 to 01.07.20.
6. International e-seminar on “**Academic Writing: Things to Know**”, organized by the Department of Mathematics, Government Post Graduate College Maldevta, Raipur (Dehradun) Uttarakhand, India, dated on 17.07.20.

7. National e-seminar on “**Fuzzy Set Theory & Its Applications**”, organized by the Department of Mathematics, GIS, GITAM Deemed to be University, Visakhapatnam, Andhra Pradesh, India, during 22nd and 23rd December, 2020.

Academic Achievements:

1. **School Moodle Coordinator (SMC)** for GITAM School of Science, Since November 2022.
2. **Admissions Coordinator** for Department of Mathematics, GITAM (Deemed to be University), Since September 2023.
3. **Department Committee Member (DCM)** for Department of Mathematics, GITAM (Deemed to be University), Since June 2023.
4. **Class Coordinator** for Department of Mathematics, GITAM (Deemed to be University), from June 2023 to April 2024.
5. **Board of Studies Member**, Department of Mathematics, GITAM (Deemed to be University), Since June 2023.
6. Coordinator of **NPTEL** from Department of Mathematics, GIT, GITAM University, during the academic year 2015-2016.
7. Coordinator for **IQAC (X-Learn)** from Department of Mathematics, during the academic year 2015-2016, 2016-2017 and Since June 2024.
8. **Student Counsellor** for B. Tech & B.Sc., I & II-year students, Member in Anti-ragging and Proctorial committees, since 2013 till date.
9. **Hostel Coordinator** for B.Tech (I year students), GITAM University during the academic years 2014-15 & 2015-16
10. **Member** in Departmental Library Committee during the academic year 2013-2014.
11. Previously acted as **Assistant Placement Officer** in **VIEW** Campus from 1st August 2012 to 1st June 2013.
12. **Ratified** by **JNTU(K)** from Vignan's Institute of Information Technology(**VIIT**), Visakhapatnam.
13. Participated in Paper Evaluation, as a **Valuer, Chief-Valuer and Observer** duties for Degree and PG Level Examinations.
14. Prepared many Question Papers for **Degree and PG Level** Examinations for Autonomous Colleges.
15. Attended Industrial Tour with III Mechanical Engineering Students to visit **Voxwagon, Acer India, Audor Welding, Mapro, etc.**, in the month of January 2013.
16. Worked as **NSS Co-Ordinator** in **VIEW** campus.
17. Received **Appreciation Letter** from Vignan's Chairman for getting more than **90%** results.
18. Gained certification on **SAS Base Programming** on **Jan 27th 2008**.
19. Represented University in **Cricket**, twice.
20. Organized **STATVISTA** (University level symposium) in **TSR&TBK DEGREE COLLEGE** in **2003 at Visakhapatnam**.
21. Organized a workshop on **Vedic Mathematics** in **TSR&TBK DEGREE COLLEGE** in **2002 at Visakhapatnam**.
22. **Life Member** in Indian Society for Probability & Statistics (**ISPS**)
23. **Life Member** in Operational Research Society of India (**ORSI**)
24. **Life Member** in International Association of Engineers (**IAENG**): **Membership ID: 381838**
25. **Life Member** in Indian Association for Reliability & Statistics (**IARS**): **Membership ID: 109**

Technical Profile:

Packages : MS Office, QM for Windows & SPSS
 Programming : R Programming & SAS (Certified)

Indexing Profile:

Scopus Id : 57218489213
 Google Scholar Id : <https://scholar.google.com/citations?user=9yYNM3QAAAAJ&hl=en>
 Web of Science Id : ABL-6397-2022
 ORCID ID : <https://orcid.org/0000-0002-7176-1953>

Personal Profile:

Date of Birth : 10.07.1978
 Father Name : Eswara Rao
 Marital Status : Married
 Nationality : Indian
 Languages Known : English, Hindi & Telugu
 Place : Visakhapatnam
 Date : 25.08.2025

<i>Prof. Umashankar C</i> Former Registrar, RSVP & Dept of OR & SQC, Rayalaseema University, Tirupati, Andhra Pradesh, INDIA Email: cumaor@rediffmail.com Mobile +91 9441263963	<i>Prof. V S Sarma Yadavalli</i> Department of Industrial & Systems Engineering University of Pretoria, South Africa Email: sarma.yadavalli@up.ac.za Mobile: +27826010011(WhatsApp Only)
<i>Prof. Srinivasa Rao K</i> Department of Statistics, Visakhapatnam, Andhra Pradesh, India Email: ksraoau@yahoo.co.in Mobile: +91-9949659959	<i>Prof. Tirupati Rao Padi</i> Dept of Statistics, Pondicherry University, India-605014. Email: drtrpadi@gmail.com Mobile +91-9486492241
<p style="text-align: center;"><i>Prof. S Rao Jammalamadaka</i> Distinguished Professor, Department of Statistics & Probability University of California, Santa Barbara, USA & Former Distinguished Visiting Professor, Department of Mathematics, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, India Email ID: sreenivas@ucsb.edu Mobile: +1 (805) 460-8996 (WhatsApp Only)</p>	


 (Dr. Sridhar Akiri)