

Dr. Tanveer Ahmad Tarray

Present Address : Department of Mathematical Sciences,
Islamic University of Science and Technology,
J&K- India, 192122.
Phone: +919596560866

Permanent Address : Mahind, Srigufwara, Anantnag, J&K- India,
192401.

E-mail Address : tanveerstat@gmail.com, tanveer.tarray@islamicuniversity.edu.in

Nationality : Indian

ACADEMIC QUALIFICATIONS

Ph. D. School of Studies in Statistics, Vikram University, Ujjain, India-456010 (Statistics)
(Title of Thesis: Study of some modified randomized response techniques.) (2015)

M. Phil. School of Studies in Statistics, Vikram University, Ujjain, India-456010 (Statistics)
(Title of Dissertation: Study on stratified randomized response techniques.) (2012)

P.G. University of Kashmir, J&K, Srinagar – India-19001 (Statistics) (2009)

B.Ed. University of Kashmir, J&K, Srinagar – India-19001 (Math)

PROFESSIONAL EXPERIENCE

- i. Assistant Professor of Statistics at Department of Mathematical Sciences, Islamic University of Science and Technology – J&K – India, (12-02- 2024 to till date).
- ii. Assistant Professor of Statistics at Department of Mathematical Sciences, Islamic University of Science and Technology – J&K – India, (13-02- 2023 to 31-12- 2023).
- iii. Assistant Professor of Statistics at Department of Mathematical Sciences, Islamic University of Science and Technology – J&K – India, (01-10- 2021 to 31-12-2022).
- iv. Assistant Professor of Statistics at Department of Mathematical Sciences, Islamic University of Science and Technology – J&K – India, (17-02- 2020 to 31-12-2020).
- v. Assistant Professor of Statistics at Department of Mathematical Sciences, Islamic University of Science and Technology – J&K – India, (02-04- 2018 to 31-12-2019).
- vi. Assistant Professor of Statistics at Department of Computer Science and Engineering, Islamic University of Science and Technology – J&K – India, (26-02- 2018 to 31- 03- 2018).
- vii. Assistant Professor of Statistics at Department of Computer Science and Engineering, Islamic University of Science and Technology – J&K – India, (01-03- 2016 to 31-01- 2018).
- viii. Assistant Professor of Statistics at Department of Computer Science and Engineering, Islamic University of Science and Technology – J&K – India, (30-04- 2015 to 31- 12- 2015).

AWARDS AND HONORS

1. **Gold Medal as “Young Scientist Award” from M.P. Council of Science and Technology** on the basis of quality and presentation at the 29th M. P. Young Scientists Congress organized by Madhya Pradesh Council of Science and Technology, Bhopal from 28 February – 01 March (2015).
2. **Best Presentation Award from Indian Society of Agricultural Statistics (ISAS)** at ICAR- (29th -31th Jan.-2015) Indian Agricultural Statistics Research Institute- New Delhi.
3. **Outstanding Scientist Award. 11th International Scientist Award 2020** on Engineering, Science and Medicine 17th & 18th October -2020.
4. **Best Presentation Award from Indian Society of Agricultural Statistics (ISAS)** at ICAR- (29th -31th Jan.-2015) Indian Agricultural Statistics Research Institute- New Delhi.
5. **Awarded “Fellowship for Training of Young Scientist”** by M. P. Council of Science & Technology, Bhopal, India (2015).
6. **Outstanding Scientist Award. 11th International Scientist Award 2020** on Engineering, Science and Medicine 17th & 18th October -2020.

RESEARCH ACCOUNTS

Google Scholar link : <https://scholar.google.com/citations?user=KfFqcKwAAAAJ&hl=en>

ORCID Link: <https://orcid.org/0000-0003-4773-715X>

Research Gate Link: <https://www.researchgate.net/profile/Tanveer-Tarray>

Scopus link: <https://www.scopus.com/authid/detail.uri?authorId=56015990400>

Web of Science Link: <https://www.webofscience.com/wos/author/record/I-3565-2018>

RESEARCH PROJECTS HANDLED / SUPERVISED

1. **Research Project** “Probabilistic Topic Modeling of Large Text Corpora using Weighted Latent Dirichlet Allocation for theme based information retrieval”. Funding Agency - Islamic University of Science and Technology - J&K, India.- 2018.
2. **Research Project** “Analysis and Protection of Privacy through Randomized Response Techniques using Branch and Bound Algorithm”. Funding Agency - Islamic University of Science and Technology - J&K, India, Under TEQIP-III - 2019.
3. **Research Project** “Data Gathering Analysis and Protection of Privacy through Randomized Response Algorithm” Funding Agency - J&K Science Technology & Innovation Council, Department of Science and Technology, Govt. of Jammu and Kashmir /SRE/397-400 - 2020.
4. **Research Project** “Security of Seclusion applying Mathematical Modeling using Branch and Bound Algorithm”. Funding Agency - Saudi Electronic University (Saudi Arabia) / No. 9462/ : 21/05/2023.
5. **Research Project** “Impact of PM Ujjwala Yojana in Empowering Households: A Study on Jammu & Kashmir UT” .Funding Agency Indian Council of Social Science Research (Ministry of Education) JNU Institutional Area, Aruna Asaf Ali Marg New Delhi 110067. F.No. 144/CRP-2023-1950/PMUY/SCD – 2023-2024.
6. **Research Project** “Generalized Mathematical Models For Decision Making Problems Using Fuzzy Algorithm”. Funding Agency - J&K Science Technology & Innovation Council, Department of Science and Technology, Govt. of Jammu and Kashmir /SRE/921-25 - 2024.
7. **Research Project** “Study of some modified mathematical models using Fibonacci sequence” Funding Agency - J&K Science Technology & Innovation Council, Department of Science and Technology, Govt. of Jammu and Kashmir /SRE/911-15 - 2024.

ONLINE CERTIFICATION

1. **Swayam (NPTEL) Online Certification entitled** “Descriptive Statistics with R Software” course coordinator Professor Shalab – IIT Kanpur , Eight Weeks Course (24 Feb. – 17 Apr. 2020).
2. **Swayam Online Certification entitled** “Business Statistics” course coordinator Dr Manju S Maharani’s Women’s Commerce And Management College, Mysore , Ten Weeks Course (06 Jul. – 29 Nov. 2020).
3. **Swayam (NPTEL) Online Certification entitled** “Introduction to R Software” course coordinator Professor Shalab – IIT Kanpur , Eight Weeks Course (14 Sept. -06 Nov. 2020).

FIELD OF SPECIALIZATION

- (i) Survey Sampling (ii) Optimization (iii) Fuzzy Logic

COURSES TAUGHT AT P.G. & U.G. LEVELS

- (i) Sampling Theory and Sample Surveys
- (ii) Applied Statistics and Probability for Engineers
- (iii) Operations Research
- (iv) Computer Fundamentals
- (v) Research Methodology
- (vi) Business – Statistics

SOFTWARE TOOLS PROFICIENCY

- i) Statistical Package: SPSS, R (**NPTEL -SWAYAM Course**)
- ii) Technical: Windows, MS-office and Internet Tools, LaTeX.
- iii) One year course in Computer Application from ALMA, EDEXCEL International Computer Application (2010).

MEMBERSHIP OF ACADEMIC BODIES

- Indian Society for Probability and Statistics.
- IEEE memberships support IEEE's mission to advance technology for humanity and the profession (96657832) from 2019-2024.
- J&K Mathematical Society.

INDUCTION / ORIENTATION / FACULTY DEVELOPMENT PROGRAMS

1. **Faculty development workshop on** “A Roadmap to Growth of Teaching, Learning and Research” organized by Department of Management Studies in Association with IIT Roorkee at Islamic University of Science and Technology. J&K-16th -18th August-2018.
2. **One week National Faculty Development Program on** “Research Trends in Information Technology(RTIT)” Organized by Departments of Computer Science and Computer Science Engineering , IUST, J&K-25th -29th Sept.-2018.
3. **One week Faculty Development Program on** “Emerging trends in physical, Chemical and Mathematical Sciences” Organized by Departments of Physics, Chemistry and Mathematics, IUST, J&K-14th -20th Feb.-2019.
4. **Four – Week Induction / Orientation Programme** “Faculty in University / Colleges / Institutes of Higher Education” Organized by Teaching Learning Centre Ramanujan College , University of Delhi sponsored by Ministry of Human resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching 4th June-01th July-2020.
5. **International executive education program** “Executive certificate program in research methodology, research manuscript drafting and publication”, Organized by: World Statistical Data Analysis Research Association, powered by: Eudoxia Research Centre, USA, 30th April to 29th June , 2021.
6. **International Faculty Development Program** “Research Methodology for Qualitative and Quantitative data collection and Analysis” Organized by: Eudoxia Research

Centre and Eudoxia Research University – USA, 21st February to 28th February, 2022.

7. **International Faculty Development Program** on Manuscript Drafting for SCOPUS, WOS, UGC CARE List Journals and Free Publication Process"" Organized by: Eudoxia Research Centre and Eudoxia Research University - USA ,20th October to 27th October, 2022.
8. **8-Days Online Training Program** on NEP Orientation & Sensitization Program, *Organized by: UGC, Malaviya Mission Teacher Training Centre - Shri Mata Vaishno Devi University Katra - Jammu and Kashmir , 22nd Jan – 31st Jan, 2024.*

PRESENTATIONS

1. **Tarray TA and Singh HP (2015):** *An efficient optimal orthogonal additive randomized response model.* Paper Presented at the 13th ISITA Conference; National Conference on Recent Trends in Mathematical and Computational (3rd -4th Jan.-2015). Organized by University Department of Statistics & Computer Applications T.M. Bhagalpur University, Bhagalpur – 812 007, Bihar.
2. **Tarray TA and Singh HP (2015):** *An endowed optional stratified unrelated question randomized response model.* Paper Presented at the 68th Annual Conference of Indian Society of Agricultural Statistics (ISAS) organized at ICAR- Indian Agricultural Statistics Research Institute (29th -31th Jan.-2015) - New Delhi.
3. **Tarray TA (2015):** *A dexterous additive randomized response model.* Paper Presented at the 30th M.P. Young Scientist Congress, M.P. Council of Science and Technology, 28 February – 01 March (2015). Vigyan Bhawan, Nehru Nagar, Bhopal -462003.
4. **Tarray TA (2015):** *A nimble-fingered optimal orthogonal additive randomized response model.* Paper Presented at the 11th JK Science Congress at Srinagar – J&K (12th -14th Oct.2015).
5. **Tarray TA and Singh HP (2016):** *A dexterous randomized response model for estimating a rare sensitive attribute in stratified sampling using Poisson distribution.* Paper Presented at the 18th Annual national Conference of Society of Statistics, Computer and Application Organized by Department of Statistics, University of Jammu (18th -20th Feb.-2016).
6. **Tarray TA and Bhat MR (2016):** *A nonlinear programming problem applying LINGO.* 3rd International Conference on Recent trends and Advancements in Engineering and Technology (ICRTAET) (17th -18th Nov.-2016) Organized by Shri Mata Vaishno Devi University, Katra – Jammu.
7. **Tarray TA (2016):** *A dexterous stratified Singh and Grewal's randomized response model using geometric distribution.* Paper Presented at VIII - International Symposium on Statistics and Optimization in Conjunction with XXXVI - Annual Convention of Indian Society for Probability and Statistics (ISPS) (17th -19th Dec.-2016) Organized by Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh- 202002, India.
8. **Tarray TA (2016):** *New mathematical programming problem applying LINGO.* Paper Presented at Current trends in research and it's Benefits to the society (29th - 30th Nov.-2016), Jiwaji University, Gwalior (M.P.) – India.
9. **Tarray TA (2017):** *Handling missing data in clinical trials: a randomized response model based approach.* Paper Presented at 2nd JK Medical Science Congress (10th - 13th May-2017) Organized by Sheri – i – J&K institute of Medical Sciences, Srinagar, J&K – India.
10. **Tarray TA (2017):** *A dexterous new mathematical nonlinear programming problem applying LINGO.* Paper Presented at 6th International Conference on Engineering technology, Science and Management Innovation (ICETSMI -2017), 11th June-2017 – India.
11. **Tarray TA (2017):** *An adroit nonlinear programming problem applying LINGO.* Paper Presented at "1st J&K Teachers Science Congress" (12th -14th Nov.-2017)

Organized by JKIMS, Srinagar, J&K – India.

12. **Tarray TA and Naik PA (2017):** *Innovative randomized response procedure via branch and bound method.* Paper Presented at 4th International Conference on New Frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2017), (3rd Sept. -2017). – India.
13. **Tarray TA (2017):** *A nimble new scientific nonlinear programming problem applying LINGO.* Paper Presented at International Conference on Study of Nanomaterials and Scientific Development in 21st Century (ICSNSDC) and IVth Annual Meeting of “Academy of Microscope Science & Technology (AMST), (3rd-5th Nov.-2017) Organized by Jiwaji University, Gwalior (M.P.) – India.
14. **Tarray TA (2018):** *An agile optimal orthogonal additive randomized response model.* Paper Presented at the 9th International Conference on “Measure, Manage & facilitate Change to Harness Organizational Potential” Organized by Prestige Institute of Management - Gwalior (M.P.) in Collaboration with Indian Economic Association, 6th -8th Jan.-2018.
15. **Tarray TA (2018):** *An Adroit Two – Stage Stratified Randomized Response Strategy.* Paper Presented at the International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences (IPECS 29th -31th Jan.-2018) in Conjunction with Bi-Decennial Conference of Society of Statistics, Computer and Applications (SSCA) Organized by Department of Statistics, Pondicherry University, Puducherry – 605 014.
16. **Tarray TA, Zahoor A and Baziga Y (2019):** *A stratified randomized response model using the poly's urn process.* Paper Presented at the third International Conference on Advanced Informatics for Computing Research (ICAICR-2019) In Association with Namibia University of Science and Technology, Namibia, CSI Chandigarh Chapter. 16th June. -2019.
17. **Tarray TA (2020):** *An Adroit Feint Randomized Response Model Using Machine Learning.* Paper Presented at the International Conference on Application of SPSS and Statistical Data Analysis Organized by Eudoxia Research Centre, 29th -30th April-2020.
18. **Tarray TA (2020):** *A Stratified Optional Mathematical Model.* Paper Presented at the International Conference on Renewable Power Jointly Organized by Electrical Engineering Department BGSB University and Engineering Department ZHCET, AMU, Aligarh , 13th -14th July-2020.
19. **Tarray TA (2020):** *An innovative optional additive randomized response model using auxiliary information.* Paper Presented at the International Conference on Recent Trends in Multidisciplinary Research, Conducted by Eudoxia Research Centre , 19th -20th September -2020.
20. **Tarray TA (2020):** *A novel technique for additive randomized response model using auxiliary evidence.* 12th International e conference on “Digitalization as a Vehicle for Innovation, Organizational Growth, and Effectiveness”, Prestige Institute of Management, Gwalior collaboration with Association of International Business & Professional Management, Indonesia. 19th -20th Dec.-2020.
21. **Tarray TA and Ganie ZA (2022):** *An Innovative Mathematical Model Applying Randomized Response Technique.* International Conference on Evolution in Pure and Applied Mathematics (ICEPAM-2022)", organized by the Department of Mathematics, Akal University, Talwandi Sabo, Bathinda, Punjab, India; 16th November to 18th November 2022.
22. **Tarray TA , Islam KU and Ganie ZA (2023):** *A dexterous unrelated question randomized response model with a variety of strategies.* Annual International Conference on Significance of Statistical Sciences in Emerging Scenario (SSSES 2023); Organized by Department of Statistics, University of Jammu, Jammu (J&K) in conjunction with 25th Annual Conference of the Society of Statistics, Computer and Applications.

(February 15-17, 2023).

23. **Tarray TA and Ganie ZA (2023):** *An inventive mathematical model applying randomized response technique.* Annual International Conference on Significance of Statistical Sciences in Emerging Scenario (SSSES 2023); Organized by Department of Statistics, University of Jammu, Jammu (J&K) in conjunction with 25th Annual Conference of the Society of Statistics, Computer and Applications. (February 15-17, 2023).
24. **Tarray TA and Ganie ZA (2023):** *An optimization model using soft computing with the randomized response technique.* International Conference on Power, Instrumentation, Energy and Control (PIECON) –IEEE, Organized by Department of Electrical Engineering, Aligarh Muslim University, (10th -12th, Feb. -2023).
25. **Tarray TA and Ganie ZA (2023):** *A soft computing optimization strategy that use the Randomization Response Mechanism.* International conference on emerging technologies in engineering and science (ICETES) Organized by DVR & Dr. HS MIC College of Technology AUTONOMOUS, (11th -12th, Aug. -2023).

WORKSHOPS

1. **International workshop on** “Advanced Computing for Statistics and Optimization for Young Statisticians and Scientists Using Software’s” (22th Oct.-2008). Department of Statistics, University of J&K, Srinagar, J&K – India.
2. **National workshop on** “In- Silico Statistical tools and their applications in Bio-Sciences. NWIST-TAB (14th -19th March-2015). Department of Statistics, Holkar Science College Indore (M.P.) – India.
3. **National workshop on** “Introduction to Robotics organized by Department of Computer Science and Engineering, Islamic University of Science and Technology, J&K – India in association with e- Yantra – Indian Institute of Technology Bombay” 25th -26th April-2016.
4. **International workshop on** “Cyber Communication Security and Laws organized by Department of Electronics and Communication Engineering (8th May-2017) , Islamic University of Science and Technology , J&K – India.
5. **National workshop on** “Total Station, DGPS and Allied Software’s, Sponsored by Sankon Technologies PVT. LTD (20th March-2017) organized by Department of Civil Engineering, Islamic University of Science and Technology, J&K – India.
6. **National workshop on** “Data Analytics of Cloud Based IoT” organized by SSM College of Engineering and Technology –Pattan - J&K – India , 23th -24th Sept.-2017.
7. **National workshop on** “Preparation of Research Proposal to Funding Agencies” organized by Islamic University of Science and Technology in collaboration with Engineering Staff College of India – Hyderabad, 26th -28th Sept.- 2017.
8. **National workshop on** “Scholarly Writing & Intellectual Ethics” organized by Islamic University of Science and Technology in collaboration with Elsevier- October 26th, 2017.
9. **National workshop on** “Scientific and Technical Documentation using Latex” organized by Department of Electrical Engineering, Islamic University of Science and Technology. J&K-21th -22th Dec.-2017.
10. **National workshop on** “Latest Trends in IT and Latest Technologies in Network” organized by Department of Computer Science and Engineering, Islamic University of Science and Technology. J&K-13th -14th Sept.-2017.
11. **National workshop on** “Technical Paper writing, Patent, drafting and filing” organized by Department of Electronics and Communication Engineering, Islamic University of Science and Technology. J&K-12th -14th Dec.-2017.
12. **National workshop on** “Springer nature author workshop” organized by Islamic University of Science and Technology. J&K-15th Dec.-2017.
13. **National workshop on** “Stochastic Modeling and Optimization Methods (NSSMOM-

2018) Under UGC-SAP DRS-I, Organized by Department of Statistics, Pondicherry University, Puducherry – 30th -31th Jan. -2018.

14. **National workshop on “Two -week Research Methodology Course Sponsored by “Indian Council of Social Science Research (ICSSR) New Delhi”** organized by Islamic University of Science and Technology. J&K-6th -16th March.-2018.
15. **National workshop on “Outcome Based Education”** organized by Islamic University of Science and Technology. J&K-26th -27th March-2018.
16. **National workshop on “Two Days National Workshop on Nano science- Opportunities and Challenges”** Organized by Departments of Physics and Chemistry at Islamic University of Science and Technology, J & K-4th -5th September 2018.
17. **Short term course on “FPGA programming in power and control application”** Organized by Department of Electrical Engineering, IUST, J&K-10th -14th Sept.-2018.
18. **National workshop on “Machine Learning and Mathematical Modeling”** Organized by JKIMS in collaboration with IUST held at JKIMS, Srinagar, J&K-26th Nov.- 2nd Dec.-2018.
19. **National workshop on “World Book and Copyright Day”** organized by University Library, Islamic University of Science and Technology. J&K-25th April-2019.
20. **Five day workshop “Data Science and Information Security-boot camp”** organized by Department of Computer Science and Engineering and ECE, IUST in collaboration with MAKAUT, West Bengal under TEQIP-III , 11th – 15th June. – 2019.
21. **One week workshop “The Basics of Econometrics and its Applications”** organized by Departments of Economics, IUST, J&K-1st -7th July-2019.
22. **One Day online workshop “Planning and Organizing Research Using Elsevier Tools : ScienceDirect, Scopus and Mendeley”** organized by University of Kashmir in Collaboration with Elsevier , 26th April -2020.
23. **One Day Webinar “Accelerate Research Planning using Elsevier, ScienceDirect and Mendeley ”** organized by IUST in Collaboration with Elsevier , 4th May -2020.
24. **International Webinar “Application on Data Science and Applied Statistics”** organized by Society of Education and Council of Research and Sustainable Development , 21th May -2020.
25. **National Webinar “Data Analysis and Statistical Computing”** organized by Department of Statistics, Institute of Social Sciences, Dr. Bhimrao Ambedkar University, Agra , 27th May -2020.
26. **One – Month Hands – on International “Training Program on Application of SPSS for Data Analysis”** Conducted by Eudoxia Research Centre, India, 11th June -10th July - 2020.
27. **One month International Workshop on “Research and Methodology”** Organized by Eudoxia Research Centre, 5th Aug. to 3rd Sept., 2020.
28. **International Workshop on “Advanced International Training Program on Research Manuscript Drafting and Publishing”,** Organized by: Eudoxia Research Centre, 30th Sept. to 31th Oct., 2020.
29. **One month International Research and Methodology Workshop on “Free Publication of Qualitative and Quantitative Research Paper in Peer Reviewed Journal”** Organized by Eudoxia Research Centre, 12th Nov. to 14th Dec., 2020.
30. **International training on “Ethical Paraphrasing and identification of Q1, Q2, Q3, q4 Scopus Journal”,** Organized by: World Statistical Data Analysis Research Association , powered by: Eudoxia Research Centre, 3rd Sept. to 11th sept. , 2021.
31. **International Workshop on “Research and Methodology, Organized by: World Statistical Data Analysis Research Association”** , powered by: Eudoxia Research Centre, 17th September to 2nd October, 2021.

32. **International Workshop on “Peer Reviewed Free Journal Publication and Scientific, Qualitative and Quantitative Research Methodology”**, Organized by: Eudoxia Research Centre, 21st October to 27th October, 2021.
33. **International Workshop on “Fifth International Advanced Training on Research Manuscript Drafting and Publishing”**, Organized by: Eudoxia Research Centre, 30th October to 11th November, 2021.
34. **One month International Workshop on “International Training on Authorship, Research Methodology and Scopus Free Publication Process” (TARMS 2.0-2021)** Organized by Eudoxia Research Centre 12th November to 22nd November, 2021
35. **One month International Workshop on “SCOPUS, WOS, UGC CARE List, IEEE Free Journal Publication and Mechanics of Thesis Drafting Process” (WOM-2021)** Organized by Eudoxia Research University, USA and Eudoxia Research Centre, 3rd December to 11th December, 2021.
36. **Short-term course “Implementation of Numerical Methods using MATLAB”**, organized by the Department of Mathematics, IIT Indore from 3rd January 2022 to 8th January 2022.
37. **Short-term course “Sampling theory and its Applications: Signal, Image processing and Data Science”** conducted as a part of quality improvement program, organized by the Department of Mathematics , IIT Indore from 24th to 29th January 2022.
38. **International Workshop on “SCOPUS, WOS, UGC CARE List Free Publication and Patent Filling Process”**, Organized by: Eudoxia Research Centre and Eudoxia Research University – USA , 3rd March to 11th March, 2022.
39. **Organizing the “Regional Workshop on Research and Opportunities”** Organized by: Indian Women and Mathematics and Department of Mathematical Sciences, Islamic University of Science, from 22th to 23th June 2023.

BOOKS PUBLISHED

1. **Tarray TA (2016):** Statistical Sample Survey Methods and Theory. *Elite Publishers (onlinegatha.com), INDIA, ISBN: 978-93-86163-07-03.*
2. **Tarray TA (2017):** Scrutinize on Stratified Randomized Response Technique, *Munich, GRIN Verlag, ISBN: 9783668554580.*

BOOK CHAPTERS

1. **Tarray TA and Singh HP (2015):** *An endowed optional stratified unrelated question randomized response model.* Statistics and Informatics in agricultural research. Excel India Publishers, New Delhi, INDIA, ISBN: 978-93-84899-8-4.
2. **Tarray TA (2018):** *An agile optimal orthogonal additive randomized response model.* Measure, Manage and Facilitate Change to Harness Organizational Potential. Barti Publications – New Delhi, 978-93-86608-56-7.
3. **Tarray TA (2019):** *Measures of Location.* Research Methodology for Social Science, An elementary book for researchers. Satish Serial Publishing House – New Delhi, 978-93-88020-44-2.
4. **Tarray TA (2019):** *Measures of Dispersion.* An elementary book for researchers. Satish Serial Publishing House – New Delhi, 978-93-88020-44-2.
5. **Tarray TA (2019):** *A New Optimal Orthogonal Additive Randomized Response Model Based on Moments Ratios of Scrambling Variable.* Bayesian Analysis and Reliability Estimation of Generalized Probability Distributions. AIJR Books, 978-81-936820-7-4. DOI: <https://doi.org/10.21467/books.44.9>

PUBLISHED REFEREED JOURNALS:

INTERNATIONAL / NATIONAL PUBLICATIONS

1. **Singh HP and Tarray TA (2012):** *A stratified unknown repeated trials in randomized response sampling.* Communications of the Korean Statistical Society, 19, (6), 751-759.
2. **Singh HP and Tarray TA (2013):** *An alternative to Kim and Warde’s mixed*

- randomized response model*. Statistics and Operations Research Transactions (SORT), 37 (2), 189-210.
3. **Singh HP and Tarray TA (2013):** *An alternative to Kim and Warde's mixed randomized response technique*. Stataistica, anno, 73(3), 379 - 402.
 4. **Singh HP and Tarray TA (2013):** *A modified survey technique for estimating the proportion and sensitivity in a dichotomous finite population*. International Journal of Advanced Scientific and Technological Research, 3(6), 459 – 472.
 5. **Singh HP and Tarray TA (2014):** *An alternative to stratified Kim and Warde's randomized response model using optimal (Neyman) allocation*. Model Assist. Statist. Appl., 9, 37-62.
 6. **Singh HP and Tarray TA (2014):** *An improved mixed randomized response model*. Model Assist. Statist. Appl., 9, 73-87.
 7. **Singh HP and Tarray TA (2014):** *A dexterous randomized response model for estimating a rare sensitive attribute using Poisson distribution*. Statist. Prob. Lett., 90, 42-45.
 8. **Singh HP and Tarray TA (2014):** *A modified mixed randomized response model*. Statistics in Transition – New Series, 15(1), 67-82.
 9. **Singh HP and Tarray TA (2014):** *An adroit stratified unrelated question randomized response model using Neyman allocation*. Sri. Jour. Appl. Statist., 15:2, 83-90.
 10. **Singh HP and Tarray TA (2014):** *An improvement randomized response additive model*. Sri. Jour. Appl. Statist., 15:2,131-138.
 11. **Singh HP and Tarray TA (2014):** *An efficient alternative mixed randomized response procedure*. Sociological Methods and Research. DOI: 10.1177/0049124114553309.
 12. **Singh HP and Tarray TA (2014):** *An alternative estimator in stratified RR strategies*. Journal of Reliability and Statistical Studies, 7(2), 105-118.
 13. **Singh HP and Tarray TA (2014):** *A stratified Mangat and Singh's optional randomized response model using proportional and optimal allocation*. Stataistica, anno, 73(1), 61-79.
 14. **Tarray TA and Singh HP (2014):** *A Proficient randomized response model*. Istatistika: Jour. Turkey Statist. Assoc.,7(3), 87-98.
 15. **Singh HP and Tarray TA (2014):** *An improvement over Kim and Elam stratified unrelated question randomized response model using Neyman allocation*. Sankhya – B, 77(1), 1-16.
 16. **Singh HP and Tarray TA (2015):** *A revisit to the Singh, Horn, Singh and Mangat's randomization device for estimating a rare sensitive attribute using Poisson distribution*. Model Assist. Statist. Appl., 10,129-138.
 17. **Singh HP and Tarray TA (2015):** *On the use of randomization device for estimating the proportion and truthful reporting of a qualitative sensitive attribute*. Pak. Jour. Statist. Oper. Res., 11, 27-38.
 18. **Tarray TA and Singh HP (2015):** *A randomized response model for estimating a rare sensitive attribute in stratified sampling using Poisson distribution*. Model Assist. Statist. Appl., 10, 345-360.
 19. **Tarray TA and Singh HP (2015):** *Some improved additive randomized response models utilizing higher order moments ratios of scrambling variable*. Model Assist. Statist. Appl., 10, 361-383.
 20. **Tarray TA, Singh HP and Zaizai Y (2015):** *A stratified optional randomized response model*. Sociological Methods and Research. DOI: 10.1177/0049124115605332, 1-15.
 21. **Singh HP, Kim JM and Tarray TA (2015):** *A family of estimators of population variance in two occasion rotation patterns*. Communication in Statistics Theory-Methods., 45(14) 4106 - 4116 .
 22. **Singh HP, Sharma N and Tarray TA (2015):** *An efficient class of two-phase exponential ratio and product – type estimators for estimating the finite population mean*. Jour. Statist. Appl. Prob. Let.,2,1,71-88.
 23. **Hussain Z, Mashail AM, Bander A, Singh HP and Tarray TA (2015):** *Improved*

- randomized response approaches for additive scrambling models*. Mathematical Population Studies.,23(4), 205-221.
24. **Singh HP, Srivastava MK, Srivastava N, Tarray TA, Singh V and Dixit S (2015):** *Chain regression-type estimator using multiple auxiliary information in successive sampling*. Hacettepe Journal of Mathematics and Statistics. 44(5),1247- 1256.
 25. **Tarray TA and Sigh HP (2015):** *A general procedure for estimating the mean of a sensitive variable using auxiliary information*. Investigacion Operacional. 36(3),249-262.
 26. **Tarray TA and Singh HP (2015):** *A stratified randomized response model for sensitivity characteristics using negative binomial distribution* . Investigacion Operacional. 36(3),268-279.
 27. **Singh HP, Goli R and Tarray TA (2015):** *Study of Yadav and Kadilar's improved exponential type ratio estimator of population variance in two-phase sampling*. Hacettepe Journal of Mathematics and Statistics. 44(5),1257-1270.
 28. **Tarray TA and Singh HP (2015):** *An adroit Singh and Mathur's randomization device for estimating a rare sensitive attribute using Poisson distribution*. Journal of Reliability and Statistical Studies. 8(2), 69-76.
 29. **Tarray TA and Singh HP (2016):** *An adroit randomized response new additive scrambling model*. Gazi University Journal of Sciences. 29(1) , 159-165.
 30. **Singh HP and Tarray TA (2016):** *Role of weights in improving the efficiency of Kim and Warde's mixed randomized response model*. Communication in Statistics Theory-Methods. 45(4), 1014-1030.
 31. **Tarray TA and Singh HP (2016):** *New procedures of estimating proportion and sensitivity using randomized response in a dichotomous finite population*. Jour. Mod. Appli. Statist. Meth. 15(1), 635-669.
 32. **Singh HP and Tarray TA (2016):** *An improved Bar – Lev, Bobovitch and Boukai randomized response model using moments ratios of scrambling variable*. Hacettepe Journal of Mathematics and Statistics. 45(2), 593-608.
 33. **Tarray TA and Singh HP (2016):** *New scrambling randomized response models*. Jord. Jour. Math. Statist., 9(1), 1 – 15.
 34. **Singh HP and Tarray TA (2016):** *A stratified Tracy and Osahan's two - stage randomized response model*. Communication in Statistics Theory- Methods. 45 (11), 3126-3137.
 35. **Singh HP and Tarray TA (2016):** *An efficient new "partial" randomized response model*. Communication in Statistics Theory- Methods. 45 (22), 6611-6624
 36. **Singh HP and Tarray TA (2016):** *A modified optimal orthogonal new additive model (AMOONAM)*. Communication in Statistics Theory- Methods. 45 (22), 6663- 6669.
 37. **Singh HP and Tarray TA (2016):** *A sinuous stratified unrelated question randomized response model*. Communication in Statistics Theory- Methods. 45 (22), 6510-6520.
 38. **Singh HP and Tarray TA (2017):** *A stratified unrelated question randomized response model using Neyman allocation*. Communication in Statistics Theory-Methods. 46 (1), 17-27.
 39. **Singh HP and Tarray TA (2017):** *A Two - Stage Land et al. 's randomized response model for estimating a rare sensitive attribute using Poisson distribution*. Communication in Statistics Theory- Methods. DOI: 10.1080/03610926.2014.995821., 46(1), 389- 405.
 40. **Singh HP and Tarray TA (2017):** *An adept stratified kuk's randomized response model using neyman allocation*. Communication in Statistics Theory- Methods. 46 (6),2870-2881
 41. **Singh HP and Tarray TA (2017):** *An efficient use of moment's ratios of scrambling variables in randomized response sampling*. Communication in Statistics Theory-Methods. 46 (2), 521-531
 42. **Tarray TA and Singh HP (2017):** *A stratified randomized response model for sensitive characteristics using the negative hyper geometric distribution*. Communication in Statistics Theory- Methods. 46 (6), 2607-2629.

43. **Tarray TA and Singh HP (2017):** *An optional randomized response model for estimating a rare sensitive attribute using Poisson distribution.* Communication in Statistics Theory- Methods. 46 (6), 2638-2654.
44. **Tarray TA and Singh HP (2017):** *A Survey Technique for Estimating the Proportion and Sensitivity in a Stratified Dichotomous Finite Population.* Statistics and Applications, 15(1,2), 173-191.
45. **Singh HP, Gorey SM and Tarray TA (2017):** *A Stratified Randomized Response Model for Sensitive Characteristics using Geometric Distribution of Order K.* Statistics and Applications, 15(1,2), 147-160.
46. **Singh HP and Tarray TA (2018):** *A randomization device for estimating a rare sensitive attribute in stratified sampling using Poisson distribution.* Afrika Matematika. DOI: 10.1007/s13370-018-0550-z.
47. **Tarray TA, Peer Bilal and Bhat MR (2018):** *A new approach to randomized response model using fuzzy numbers.* Statistics and Applications. 16(2), 49-63.
48. **Tarray TA and Singh HP (2018):** *Missing data in clinical trials: stratified Singh and Grewal's randomized response model using geometric distribution.* Trends in Bioinformatics, 11(1),44-55.
49. **Tarray TA, Peer Bilal and Bhat MR (2018):** *A new approach to randomized response model using fuzzy numbers.* Asian Journal of Mathematics and Statistics. 11(1),1-11.
50. **Tarray TA, Naik PA and Najar R (2018):** *Matrix Representation of an All- inclusive Fibonacci sequence.* Asian Journal of Mathematics and Statistics. 11(1), 18- 26.
51. **Tarray TA and Singh HP (2018):** *A Proficient Two-Stage Stratified Randomized Response Strategy.* JMASM, 17(1), 1-11.
52. **Tarray TA and Singh HP (2019):** *An agile optimal orthogonal new additive randomized response model.* Communications in Advanced Mathematical Sciences. 2 (1), 48-54.
53. **Tarray TA, Singh HP and Masood S (2019):** *An Endowed Randomized Response Model for Estimating a Rare Sensitive Attribute Using Poisson Distribution.* Trends in Applied Sciences Research, 12, 1-6.
54. **Bhat MR, Kundroo MA, Tanveer TA and Agarwal B (2019):** *Deep LDA : A new way to topic model.* Journal of Information and Optimization Sciences. 10, 1-12.
55. **Tarray TA (2019):** *Nimble Randomization Device for Estimating a Rare Sensitive Attribute using Poisson Distribution.* Eng. Math. Lett. 11, 1-7.
56. **Tarray TA, Ganie ZA and Baziga Y (2019):** *An Improved Mathematical Model Applying Practicable Algorithms.* Jour. Appli. Sci. Eng. Tech. & Edu. 1(2), 1-12.
57. **Tarray TA, Ganie ZA and Baziga Y (2020):** *A Proficient Optional Randomized Response Model for Estimating a Rare Sensitive Attribute using Poisson Distribution.* World Applied Sciences Journal, 38(4), 324-328.
58. **Tarray TA, Ganie ZA and Baziga Y (2021):** *A stratified Optional Mathematical Model.* Renewable Power for Sustainable Growth, LNEE, volume 723, 307-313.
59. **Lone S, Rahman A and Tarray TA (2021):** *Inference for Step-Stress Partially Accelerated Life Test Model with an Adaptive Type-I Progressively Hybrid Censored Data.* Jour. Mod. Appli. Statist. Meth. 19(1), 01-20.
60. **Ganie ZA , Tarray TA and Khalid M (2022):** *A New Data Gathering Exponential Type Ratio Estimator for the Population Mean.* Journal of Scientific Research & Reports, 28(10): 148-153.
61. **Tarray TA, Ganie ZA and Khalid M (2022):** *Decipher Multi-Objectives gathering with liberate Dates Problem.* Journal of Scientific Research 66(05):132-136, DOI: 10.37398/JSR.2022.660516.
62. **Tarray TA and Khalid M (2022):** *Estimation of rare sensitive parameter under Poisson approximation using stratified three stage randomized response model.* Journal of Science and Arts. DOI: 10.46939/J.Sci.Arts-22.4-a05.
63. **Singh HP and Tarray TA (2022):** *Two - stage stratified partial randomized response strategies.* Communications in Statistics-Theory & Methods, 52(14) 4862-4893.

64. **Dar AH, Khan, Azad I , Tarray TA, Anuradha N , Dar QF and Chat BA(2023):** Effects of Factors on the Market Price of the Shares Using Design of Experiment. Appl. Math. Inf. Sci. 17(3), 451-458.
65. **Tarray TA and Ganie ZA (2023):** An optimization model using soft computing with the randomized response technique. Inter. Confer. Power, Instr., Energy and Control (PIECON).IEEE. DOI: 10.1109/PIECON56912.2023.10085835.
66. **Tarray TA and Ganie ZA (2023):** An adroit unrelated question randomized response model with sundry strategies. Journal of applied mathematics & informatics 41 (6), 1377-1391.
67. **Khanday MA, Tarray TA, Alkhazaleh S, Ibrahim A, Pratyay D, Rawat A, Shiv Pandey SS (2023):** A successful and ideal randomized orthogonal additive response model. Journal of Statistics Applications & Probability , 13, No. 2, 707-716.
68. **Ganie AH, Tarray TA, Ganie ZA, Koka NA, Alahmadi RA (2024):** An innovative fuzzy logic for decision-making that employs the randomized response technique. Pak. J. Statist. Vol. 40 (1), 5-16