Department of Statistics

Research Profile

Shivaji University, Kolhapur
www.unishivaji.ac.in

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Contents

Executive Summary

Presently, the Department has seven faculty members. Their research is mainly focused in **two thrust areas**, namely, *Statistical Modelling and Inference* and *Statistical Process Control and Optimization*. The total number of publications of the current faculty till date is 151 of which 133 are in SCOPUS indexed journals while 72 are in SCI indexed journals. The total citations to these publications are 873. The h-index of the Department is 18 and the i10-index is 32.

The Department has been recognized by UGC and DST by providing with **UGC-SAP DRS-I** and **DST-FIST Level-I** schemes for the period 2016-2021. Under UGC-SAP DRS-I scheme, the Department has been sanctioned the grants of **Rs.62 lakh** while under DST-FIST Level-I scheme, it has been sanctioned **Rs. 32 lakh plus one project fellow**. Also, the Department has received grants of **Rs. 16.39 lakh** under **DST PURSE Phase II** scheme for the period 2018-2020. The library and laboratories have been greatly upgraded through these grants. Further, superlative **specialization laboratories** have been created recently through **RUSA grants of Rs. 46.28 lakh**.

Till date, **fifteen research projects** have been sanctioned to the faculty members from different funding agencies including UGC, DST, CSIR, NBHM, and Shivaji University. During 2014-2019, two projects have been completed while seven are ongoing. Total grant sanction for these nine projects is **Rs. 86.55 lakh**.

Since 2014, in all **14 research scholars received fellowships** under the research schemes and projects mentioned above, under the INSPIRE Programme of DST, and under the RJNF scheme of UGC.

The research in the Department is mostly related to the development of various parametric and nonparametric tests, confidence and tolerance intervals, new probability distributions, graphical tools, estimation and subset selection procedures in regression analysis, control charts, training algorithms for artificial neural network, and estimation procedure for support vector machines. Till date, 37 students have been awarded Ph. D. degree among which 10 were awarded during 2014-19. Presently, 20 students are pursuing their Ph. D.

The Department has **excellent research infrastructure and facilities**, which include one general research laboratory, five specialization laboratories, cable internet, wifi zone, uninterrupted power supply, access to online journals, Departmental library, and commercial and free statistical software. The commercial software include SAS, MINITAB, MATLAB, SPSS, SYSTAT, and STATISTICA while the freeware include R, Python, and LaTeX.

Faculty and Research Fellows

Faculty

1. Dr. (Smt.) H. V. Kulkarni, Professor and Head
2. Dr. D. T. Shirke, Professor
3. Dr. D.N. Kashid, Professor
4. Dr. S. B. Mahadik, Professor
5. Dr. D.M. Sakate, Assistant Professor
6. Mr. S. D. Pawar, Assistant Professor
7. Mr. S. V. Rajguru, Assistant Professor

Research Fellows (during 2014-19)

Sr. No.	Name of Research fellow	Duration of fellowship	Type of the fellowship	Granting agency	Qualifying exam
1	Miss. Tejaswini S. Kamble	01/04/2011-31/03/2016	Research Fellow	RJNF	-
2	Mr. Kundalik S. Shende	28/08/2013-26/06/2014	Research Assistant	DST	SET
3	Miss. Rajashree L. Salamwade	08/10/2014-05/06/2015	Research Assistant	DST	SET, NET
4	Mr. Atul R. Chavn	08/10/2014-05/06/2015	Research Assistant	DST	SET
5	Mr. Kiran P. Patil	01/06/2015-21/04/2016	Senior Research Fellow	CSIR	SET
6	Mr. Mahesh S. Barale	19/12/2015-30/06/2018	Project Fellow	UGC	SET
7	Mr. Kundalik S. Shende	09/02/2016-30/06/2017	DJRF	SUK	SET
8	Mr. Dadasaheb G. Godase	09/11/2016-11/08/2017	Project Fellow	UGC (SAP)	-
9	Mr. Dadasaheb G. Godase	08/12/2017 onward	INSPIRE Fellow	DST	-
10	Mr. Sachin M. Patil	06/06/2017 onward	Junior Research Fellow	NBHM-DAE	-
11	Mr. Gajanan G. Patil	01/09/2018 onward	Project Fellow	UGC (SAP)	-
12	Miss. Komal Mali	12/09/2018 onward	Project Fellow	DST SERB	-
13	Mr. Pradip Maske	24/10/2018 onward	Project Fellow	DST SERB	GATE
14	Mr. Giridhar Kulavmode	17/12/2018 onward	Project Fellow	DST PURSE	-

Research Thrust Areas

1. Statistical Modeling and Inference
2. Statistical Process Control and Optimization

Research Output

Sr. No.	Description	All	Since 2014
1	Number of publications	151	69
2	Citations	873	130
3	h index	18	06
4	i10 index	32	03
5	Number of distinct journals	73	40
6	Number of research projects	15	09
7	Number of Ph. D. awardees	37	10

Research Highlights

- Developed efficient nonparametric tests for the two sample location, nonparametric tests for goodness of fit, data depth-based tests for location and/or scale problems, exact multi-sample tests for location-scale family of distributions, tests of the two sample problem for zero-inflated continuous distributions,
- Developed tolerance intervals and confidence intervals for parameters of some life time distributions under complete and censored data, interval estimation of stress–strength reliability for exponentiated scale family of distributions, interval estimation for a lifetime distribution of k-unit parallel system.
- Developed improved inference for the shape-scale family of distributions under type-II censoring
- Refined Multi-sample tests by eliminating nuisance parameters using integrated likelihood approach.
- Devised new univariate and bivariate families of the discrete distributions and developed inferential procedures for their parameters.
- Developed data depth-based graphical tools for the comparison of two or more distributions
- Developed all subset consistent variable selection procedures for multiple linear regressions and generalized linear models, some of which are robust to presence of outliers, multicollinearity, and high leverage point.
- Developed penalized minimum phi-divergence estimator for simultaneous parameter estimation and variable selection in logistic regression.
- Developed a variety of univariate and multivariate, parametric and nonparametric, adaptive, synthetic Shewhart control charts, and SPRT control charts.
- Investigated economic designs for various control charts
- Designed a training algorithm based on phi-divergence function for artificial neural network.
- Developed a parameter estimation procedure for support vector machine (SVM) and a variable selection procedure using SVM.

Research Schemes and Outcomes

SCHEMES

Sr. No.	Research Scheme	Period	Grant Sanctioned
1	DST-FIST level I	2016-2021	Rs. 62 Lakh
2	UGC-SAP DRS – I	2016-2021	Rs 36.66 Lakh
3	DST PURSE Phase II	2018-2020	Rs. 16.39 Lakh
4	RUSA		Rs. 46.28 lakh
		Total inlay	**Rs. 161.33 Lakh**

OUTCOMES OF THE SCHEMES

Infrastructure Developed

DST-FIST level I

1. 88 Book Titles
2. 20 High end Desktop Computers
3. 3 years annual SAS license
4. A3 Multifunctional Printer
5. 20 KVA UPS with 30 Batteries(3-4 hours backup for a lab of 60 machines)

UGC SAP DRS – I

1. Book Titles worth more than Rs. 4 lakhs.
2. 15 High end Desktop Computers
3. 2 LCD projectors

DST PURSE Phase II

1. 8 High end Desktop Computers
2. A3 Multifunctional high end printer
3. Generator (purchase is in process)

RUSA

1. Specialization laboratories

Other Output

1. Research papers published (2016 onwards): 43
2. Foundational research led to sanctioning of major research projects for the faculty of the Department: 07 (Government agency funded), 02 (Shivaji University funded)
3. Manpower trained: 02 Project Fellow
4. Conference organized: 02 (National level)

Research Projects

Since 2014, **nine research projects** have been sanctioned to the faculty members from different funding agencies including UGC, DST, CSIR, NBHM, and Shivaji University. The total grants sanctioned for these projects is **Rs. 86.55 lakh**.

Project 1

Title	: Development of new simple efficient reliability tools for Weibull and Gamma distributed random variables
Duration	: 2013 - 2016
Principal Investigator	: Dr. (Mrs.) H. V. Kulkarni
Co – PI	: Dr. (Mrs.) S. H. Thakar
JRF/SRF/PF	: Mr. K. P. Patil
Funding Agency	: CSIR, New Delhi
Grant sanctioned (in Rs.)	: 10 Lakh
Sanction Letter No.	: 25 (0211)/13/EMR-II.
Final Report Submission Letter No.	: SU/CUDS/1104 dated 23 Feb, 2017
Project Outcomes	:

1 Improved inference for the shape-scale family of distributions under type-II censoring was proposed.
2 Prediction intervals for environmental events based on Weibull distribution were proposed.
3 Estimation of confidence interval for hydrological design value for some continuous distributions under complete and censored samples.
4 Prediction intervals under type-II censoring for location-scale family members and their functions
5 Interval Estimation of Stress-Strength Reliability for Exponentiated Scale Family of Distribution
6 Two Sample Comparisons Involving Zero-Inflated Continuous Data in Microarray Experiments and DNA Methylation: A Parametric Approach

Publications : 5 published papers, 1 unpublished manuscript

1. Powar, S.K. and Kulkarni, H.V., 2015. Estimation of confidence interval for hydrological design value for some continuous distributions under complete and censored samples. *Stochastic environmental research and risk assessment*, *29*(6), pp.1691-1708.
2. SenGupta, A., Kulkarni, H.V. and Hubale, U.D., 2015. Prediction intervals for environmental events based on Weibull distribution. *Environmental and ecological statistics*, *22*(1), pp.87-104.
3. Patil, K.P. and Kulkarni, H.V., 2017. On the interval estimation of stress–strength reliability for exponentiated scale family of distributions. *Quality and Reliability Engineering International*, *33*(7), pp.1447-1453.
4. Kulkarni, H.V. and Patil, K.P., 2018. Two sample comparisons including zero-inflated continuous data: A parametric approach with applications to microarray experiment. *Mathematical biosciences*, *298*, pp.19-28.
5. Kulkarni, H.V. and Patil, K.P., 2018. Improved inference for the shape-scale family of distributions under type-II censoring. *Journal of Statistical Computation and Simulation*, *88*(12), pp.2259-2272.

Project 2

Title	**:** Development of some nonparametric quality control charts
Duration	: 2015 - 2018
Principal Investigator	: Dr. D. T. Shirke
JRF/SRF/PF	: Mr. M. S. Barale
Funding Agency	: UGC, New Delhi
Grant sanctioned (in Rs.)	: 12.38 Lakh
Sanction Letter No.	: 43-542/2014(SR) dated 30th October 2015
Final Report Submission Letter No.	: SU/C&U.D. Section/1096 dated 10 Jan, 2019
Project Outcomes	: The proposed work is related to online process control. Quality of any process or product is directly related to the performance or fitness for use of the end product. Controlling quality of the product and giving the best to the end user is one of the primary objectives of any producer. The work carried out under the project has direct relevance in improving quality of the product. The present methods have certain limitations and are applicable only under specific environment. The reported work provides methods which are useful in improving quality of the process/product under very wide environment.
Publications	: 3 published papers

1. Patil, S.H. and Shirke, D.T., 2016. Economic Design of a Nonparametric EWMA Control Chart for Location. *Production*, 26(4), pp.698-706.

2. Patil, S.H. and Shirke, D.T., 2016. Economic Design of Variable Sampling Interval Sign Control Chart. *Journal of Industrial and Production Engineering*, *34*(4), pp.253-260.

3. Barale, M. S. and Shirke, D.T., 2018. A nonparametric CUSUM chart for process dispersion. *Quality and Reliability Engineering International*, 34(5), pp.858-866.

Project 3

Title : Goodness of fit and multi-sample inference procedures in the presence of nuisance parameters

Duration : 2017 - 2020

Principal Investigator : Dr. (Mrs.) H. V. Kulkarni

Co – PI : Mr. S. V. Rajguru

JRF/SRF/PF : Patil S. M.

Funding Agency : NBHM, Mumbai

Grant sanctioned (in Rs.) : 14.78 Lakh

Sanction Letter No. : 2/48(34/2016/NBHM(RP)/R&D II/4531

Project Outcomes : (ongoing project)

Publications : 1 published paper, 4 unpublished manuscripts.

1. SenGupta, A. and Kulkarni, H.V., Universal and Efficient Tests for Homogeneity of Mean Directions of Circular Populations, *Statistica Sinica*.

Project 4

Title : Development of statistical techniques to compare multivariate distribution

Duration : 2018 – 2020

Principal Investigator : Mr. S. D. Pawar

Funding Agency : Shivaji University, Kolhapur (SUK)

Grant sanctioned (in Rs.) : 0.50 Lakh

Sanction Letter No. : SU/C&U.D.Section/93/230

Project Outcomes : (ongoing project)

Publications : Nil

Project 5

Title	**:** The development of two-sided SPRT control charts
Duration	: 2018 – 2020
Principal Investigator	: Dr. S. B. Mahadik
Funding Agency	: Shivaji University, Kolhapur (SUK)
Grant sanctioned (in Rs.)	: 1.35 Lakh
Sanction Letter No.	: SU/C&U
Project Outcomes	: (ongoing project)
Publications	: ----

Project 6

Title	: Variable selection in zero inflated models for regression analysis of count data
Duration	: 2018 - 2021
Principal Investigator	: Dr. D. M. Sakate
JRF/SRF/PF	: Miss. K. M. Mali
Funding Agency	: DST, New Delhi
Grant sanctioned (in Rs.)	: 16.91 Lakh
Sanction Letter No.	: SERB/F/9509/2017-18 dated 20 February, 2018.
Project Outcomes	: (ongoing project)
Publications	: ----

Project 7

Title : Nonparametric Inference based on notion of data depth and its applications

Duration : 2018 - 2021

Principal Investigator : Dr. D. T. Shirke

Co – PI : Mr. S. D. Pawar

JRF/SRF/PF : Mr. P. V. Maske

Funding Agency : DST, New Delhi

Grant sanctioned (in Rs.) : 17.21 Lakh

Sanction Letter No. : SERB/F/738/2018-2019 dated 16 May, 2018

Project Outcomes : (ongoing project)

Publications : 3 published papers

1. Pawar, S.D. and Shirke, D.T., 2019. Nonparametric tests for multivariate multi-sample locations based on data depth. Journal of Statistical Computation and Simulation, 89(9), pp.1574-1591.

2. Chavan, A. R. and Shirke, D. T., 2019. Simultaneously Testing for Location and Scale Parameters of Two Multivariate Distributions. Revista Colombiana de Estadística. 42. 185-208.

3. Chavan, A. R. and Shirke, D. T., 2019. Multivariate multi-sample tests for location based on data depth. Journal of Statistical Computation and Simulation.1-14

Project 8

Title **:** Inference for functional data and related applications

Duration : 2019 - 2022

Principal Investigator : Dr. D. T. Shirke

Funding Agency : DST, New Delhi

Grant sanctioned (in Rs.) : 6.6 Lakh

Sanction Letter No. : SERB/F/12948/2018-19 dated 27 March, 2019

Project Outcomes : (ongoing project)

Publications : ----

Project 9

Title : Goodness of fit tests for probability distribution on smooth manifolds pertaining to directional data analysis

Duration : 2019 - 2022

Principal Investigator : Dr. (Mrs.) H. V. Kulkarni

Funding Agency : DST, New Delhi

Grant sanctioned (in Rs.) : 6.6 Lakh

Sanction Letter No. : SERB/F/12947/2018-19 dated 27 March 2019

Project Outcomes : (ongoing project)

Publications : ----

Journals in Which the Papers are Published

Sr. No.	Name of Journal	SCI Indexed	Scopus Indexed	Impact Factor
1	Applied Mathematical Sciences	No	Yes	0.17
2	Applied Mathematics	No	No	-
3	Bulletin of Pure and Applied Science	No	No	-
4	Communications for Statistical Applications and Methods	No	Yes	-
5	Communications in statistics – Theory and Methods	Yes	Yes	0.424
6	Communications in Statistics – Simulation and Computation	Yes	Yes	0.49
7	DESIDOC Journal of Library and Information Technology	Yes	Yes	-
8	Economic Quality Control	No	Yes	-
9	Electronic Journal of Applied Statistical Analysis	No	Yes	-
10	Environmental and Ecological Statistics	Yes	Yes	0.759
11	Environmental Systems Research	No	No	-
12	Epidemiology, Health and Population	No	Yes	-
13	IEEE transactions on reliability	Yes	Yes	2.888
14	IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012	No	No	-
15	International Journal of Scientific Research in Mathematical and Statistical Sciences	No	No	-
16	International Journal of Advanced Manufacturing Technology	Yes	Yes	2.496
17	International Journal of Agricultural and Statistics Sciences	No	Yes	-
18	International Journal of Commerce and Business Management	No	No	-
19	International Journal of Computer Applications	No	No	-
20	International Journal of Data Analysis Techniques and Strategies	No	Yes	-
21	International Journal of Data Mining, Modeling and Management	No	Yes	-
22	International Journal of Engineering Research & Technology	No	Yes	-
23	International Journal of Global Research in Science and Technology	No	No	-
24	International Journal of Intelligent technologies	No	Yes	-
25	International Journal of Mathematical Sciences and Engineering Applications	No	Yes	0.565
26	International Journal of Operational Research	Yes	Yes	-

Sr. No.	Name of Journal	SCI Indexed	Scopus Indexed	Impact Factor
27	International Journal of Quality Engineering and Technology	No	Yes	-
28	International Journal of Reliability, Quality and Safety Engineering	No	Yes	-
29	International Journal of Research in Commerce, IT and Management	No	No	-
30	International Journal of Science Research in Mathematical and Statistical Sciences	No	No	-
31	International Journal of Science, Engineering and Technology Research	No	No	-
32	International Journal of Statistics and Management Systems	No	Yes	-
33	International Journal of Statistics and Reliability Engineering	Yes	Yes	4.24
34	International Research Journal of Agricultural Economics and Statistics	No	No	-
35	Interstat	No	No	-
36	Journal of Academia and Industrial Research	No	No	-
37	Journal of Applied Statistical Science	No	Yes	-
38	Journal of Applied Statistics	Yes	Yes	0.767
39	Journal of Indian Statistical Association	No	No	-
40	Journal of Industrial and Production Engineering	No	Yes	-
41	Journal of Industrial and Systems Engineering	No	Yes	-
42	Journal of Modern Applied Statistical Methods	No	Yes	-
43	Journal of Probability and Statistics	No	Yes	-
44	Journal of Statistical Computation and Simulation	Yes	Yes	0.767
45	Journal of Statistical Theory and Applications	Yes	Yes	-
46	Journal of Statistical Theory and Practice	No	Yes	-
47	Journal of Statistics and Applications	No	Yes	-
48	Journal of the American Statistical Association	Yes	Yes	3.412
49	Journal of the Indian Medical Association	Yes	Yes	-
50	Journal of the Indian Society for Probability and Statistics	No	Yes	-
51	Journal of the Taiwan Institute of Chemical Engineers	Yes	Yes	3.834
52	Lifetime Data Analysis	Yes	Yes	0.948
53	Mathematical Biosciences	Yes	Yes	1.68
54	Metrika	Yes	Yes	0.64
55	Model Assisted Statistics and Applications	No	Yes	-
56	Pakistan Journal of Statistics and Operation Research	No	No	-

Sr. No.	Name of Journal	SCI Indexed	Scopus Indexed	Impact Factor
57	ProbStat Forum	No	Yes	-
58	Proceed. of the symposium on distribution theory, Kochi, Kerala, India	No	No	-
59	Proceedings of International Congress on Productivity, Quality, Reliability and Modeling	No	Yes	-
60	Production	No	Yes	-
61	Quality and Reliability Engineering International	Yes	Yes	1.409
62	Quality Technology and Quantitative Management	Yes	Yes	0.946
63	Revista Colombiana de Estadística	No	Yes	-
64	REVSTAT –Statistical Journal	Yes	Yes	0.636
65	Statistica Sinica	Yes	No	0.947
66	Statistical Methodology	Yes	Yes	-
67	Statistical Methods	No	Yes	-
68	Statistical Paradigms: Recent Advances and Reconcillations	No	No	-
69	Statistical Science and Interdisciplinary Research	No	No	-
70	Statistics	Yes	Yes	0.675
71	Statistics: A Journal of Theoretical and Applied Statistics	Yes	Yes	0.675
72	Stochastic Environmental Research and Risk Assessment	Yes	Yes	2.807
73	The International Journal of Advanced Manufacturing Technology	Yes	Yes	-
74	Trajectory	No	Yes	-

Publications

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
1	Prasad M. S., Kulkarni H. V.	1991	A Class of Absolutely Continuous Bivariate Lifetime Distributions	Proceed. of the sympo. on distribution theory, Kochi, Kerala, India	31-36	NO	NO	YES		0
2	Shirke D. T., Rattihalli R. N.	1992	An improved confidence region for the common mean vector of two multivariate homoscedastic normal distributions	Communications in Statistics. Theory and Methods	21 (5)	Yes				0
3	Kulkarni H.V., Rattihalli R.N.	1996	Characterization of bivariate mean residual-life function	IEEE transactions on reliability	45 (2), 249-253	YES	YES	YES		7
4	Shirke D. T.	1996	A note on confidence interval for the common mean of two normal distributions	Bulletin of Pure and Applied Sci	15(E), (2)	No				0
5	Shirke D. T., Rattihalli R. N.	1997	UMA confidence interval for the parameter of the family of distributions involving truncation parameter	Bulletin of Pure and Applied Sci	16(E), (2)	No				0
6	Kulkarni H. V.	1998	Analysis and inference related to multivariate life time distributions			NO	NO	YES		1
7	Shirke D. T.	1999	A note on pretest estimation for some discrete distributions	Journal of Statistical Computation and Simulation	28, (2)	Yes				0
8	Shirke D. T., Jagadale B. J.	2000	Pretest estimation for the mean of Poisson Distribution	Journal of the Indian Society for Probability and Statistics	-	No				0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
9	Kulkarni H.V., Rattihalli R.N.	2002	Nonparametric estimation of a bivariate mean residual life function	Journal of the American Statistical Association	97 (459), 907-917	YES	YES	YES		20
10	Kashid D. N., Kulkarni S. R.	2002	A More General Criterion for Subset Selection in Multiple Linear Regression	Communications in Statistics - Theory and Methods	31(5), 795-811	YES	YES	YES	0.424	19
11	Shirke D. T., Kakade S. V. and others	2002	QTc Interval in AMI and Normal Subjects- A Statistical Comparison	Epidemiology, Health and Population	-	No				0
12	Shirke D. T., Nalawade K. M.	2002	Pretest estimation for the parameter of Power Series Distribution	Statistical Methods	4,(2)					0
13	Kashid D. N., Kulkarni S. R.	2003	Subset Selection in Regression with Heavy Tailed Error Distribution	Journal of Statistical Computation and Simulation	73(11), 791-805	YES	YES	YES	0.767	17
14	Shirke D. T., Nalawade K. T.	2003	Estimation of the parameter of binomial distribution in presence of prior point information	Journal of Indian Statistical Association	41(1)	No				4
15	Kumbhar R. R., Shirke D. T.	2004	Tolerance limits for lifetime distribution of k-unit parallel system	Journal of Statistical Computation and Simulation	74(3)	Yes				13
16	Shirke, D. T.	2004	Shrinkage estimation of the scale parameter	Journal of Indian Statistical Association	42(1)	No				0
17	Kumbhar R. R., Shirke D. T., Kundu, D.	2005	Tolerance intervals for exponentiated scale family of distributions	Journal of Applied Statistics	32(10)	Yes				18

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
18	Shirke D.T., Kakade C.S.	2006	On exponentiated lognormal distribution	International Journal of Agricultural and Statistical Sciences	2(2)	No				41
19	Kulkarni H.V.	2006	Characterizations and modelling of multivariate lack of memory property	Metrika	64 (2), 167-180	YES	YES	YES		12
20	Pandit P. V., Shirke D. T.	2006	A note on repeated significance test procedure for testing exponentiality against IFRA alternatives	Statistical Methods	8(2)	No				0
21	Patil M. K., Shirke D. T.	2007	Testing parameter of the power series distribution of a zero inflated power series model	Statistical Methodology	4(4)	Yes				21
22	Mahadik S. B., D. T. Shirke	2007	On the superiority of a variable sampling interval control chart	Journal of Applied Statistics	34 (4), 443-458	YES	YES	YES	0.767	17
23	Mahadik S. B., D. T. Shirke	2007	Economic design of a modified variable sample size and sampling interval chart	Economic Quality Control	22 (2), 273-293	YES	YES	YES		13
24	Ghute V. B., Shirke D. T.	2007	Joint Monitoring of Multivariate Process Using Synthetic Control Charts	International Journal of Statistics and Management Systems	1(2)	No				4
25	Shirke D.T. , Kakade C.S.	2007	Tolerance interval for Exponentiated Exponential distribution Based on Grouped Data	International Journal of Agricultural and Statistical Sciences	3(2)	No				2
26	Kulkarni H.V., Patkure B.B.	2007	A new variant of the bivariate setting the clock back to zero property	Communications in Statistics—Theory and Methods	36 (13), 2339-2349	YES	YES	YES		2

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
27	Shirke, D.T. and Kakade, C.S	2007	Some inferences on exponentiated Gumbel distribution	International Journal of Agricultural and Statistical Sciences	3(1)	No				1
28	Shirke, D.T., Kakade, C.S.	2007	Inference of P(Y<X) for Exponentiated Scale Family of Distributions	Journal of Indian Statistical Association	45(1)	No				1
29	Ghute V. B. and Shirke D. T.	2007	Robustness of Multivariate Synthetic Control Chart to Non-normality	TRAJECTORY	15(1)	No				0
30	Shirke D.T., Kakade C.S.	2007	Exponentiated Gumbel distribution	TRAJECTORY	15(1)	No				0
31	Ghute V. B., Shirke D. T.	2008	A Multivariate Synthetic Control Chart for Process Dispersion	Quality Technology and Quantitative Management	5(3)	Yes				43
32	Ghute V. B., Shirke D. T.	2008	A Multivariate Synthetic Control Chart for Monitoring Process Mean Vector	Communications in Statistics-Theory and Methods	37(13)	Yes				32
33	Shirke D.T., Kakade C.S., Kundu D.	2008	Inference for P(Y<X) in Exponentiated Gumbel Distribution	Journal of Statistics and Applications	3(1-2)	No				31
34	Mahadik S. B., Shirke, D. T.	2009	A special variable sample size and sampling interval $\bar{X}$ chart	Communications in Statistics – Theory and Methods	38(8),1284-1299	YES	YES	YES	0.424	43
35	Shirke D. T., Gulati S., Kumbhar R. R.	2009	Upper Tolerance Intervals for Exponential Distribution based on grouped data	International Journal of Intelligent technologies	2(2)	No				2

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
36	Kulkarni H. V.,Patkure B. B.	2009	Characterizations of the Setting the Clock Back to Zero Property	Journal of Statistical Theory and Applications	8(1), 75-89	YES	YES	YES		0
37	Dorugade A. V., Kashid D. N.	2010	Alternative Method for Choosing Ridge Parameter for Regression	Applied Mathematical Sciences	4(9)447-456	NO	YES	YES		43
38	Khilare, S. K., Shirke D. T.	2010	A Nonparametric Synthetic Control Chart Using Sign Statistic	Communications in Statistics - Theory and Methods	39(18)	yes				39
39	Pawar V. Y., Shirke D. T.	2010	A Nonparametric Synthetic Control Chart	Communications in Statistics - Simulation and Computation	39(8)	Yes				30
40	Kulkarni H. V., Powar S. K.	2010	A New Method for Interval estimation of the Mean of Gamma Distribution	Lifetime Data Analysis	16(3), 431-448	YES	YES	YES		13
41	Dorugade A. V., Kashid D. N.	2010	Variable Selection Method Based on Ridge Estimator	Journal of Statistical Computation and Simulation	80(11),1211-1224	YES	YES	YES	0.767	5
42	Kulkarni H. V., Patil V. V.	2010	A Comparative Study of Analysis of 2^n Factorial Experiments with Poisson Distributed Response Variable	Communications in Statistics: Simulation and Computation	39(8),1530-1547	YES	YES	YES		1
43	KashidS D. N., Kulkarni S. R.	2010	Variable Selection in Regression Using Artificial Neural Network	IJMSEA	4(2),355-370	NO	NO	NO		0
44	Dorugade A. V., Kashid D. N.	2010	Subset Selection in linear regression Based on Generalized Ridge Estimator	Journal of Statistical Theory and Practice	4(2),375,389	NO	YES	YES		0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
45	Patil A. B., Kashid D. N.	2010	Robust Subset Selection Method in Regression	International Journal of Agri. and Statistical Sciences	5(2),509-521	NO	YES	YES		0
46	Kulkarni H. V., Patil V.V.	2010	Power Comparison of Tests for Poisson mean	International Journal of Commerce and Business Management		NO	NO	NO		0
47	Kakade S. V., Kadam R. N., Shirke D. T., Durgawale P. M., Kakade R. V., Kadam Y. R., Sansuddi A.S.	2010	A study of some clinical variables in predicting outcome after acute Myocardial infraction	Journal of the Indian Medical Association	108(5)	Yes				0
48	Mahadik S. B., Shirke, D. T.	2011	A special variable sample size and sampling interval Hotelling's T^2 chart	The International Journal of Advanced Manufacturing Technology	53(4),379-384	YES	YES	YES	2.496	28
49	Jadhav N. H., Kashid D. N.	2011	Jacknified Rige M-estimator for Regression Model with Multicollinearity and Outlier	Journal of Statistical Theory and Practice	5(4),207,219	NO	YES	YES		12
50	Patil M. K., Shirke D. T.	2011	Tests for equality of inflation parameters of two Zero Inflated Power Series Distributions	Communications in Statistics - Theory and Methods	40(14)	Yes				11
51	Sakate, D. M., Kashid, D. N., Shirke, D. T.	2011	Subset selection in poisson regression.	Journal of Statistical Theory and Practice	5(2), 207-219	No	Yes	Yes		4
52	Dorugade A. V., Kashid D. N.	2011	Parameter Estimation in Ridge Regression	Interstat		NO	NO	YES		4

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
53	Kulkarni H. V., Patil S. C.	2011	Analysis of 2^n factorial experiments with exponentially distributed response variable	Applied Mathematical Sciences	5(10),459-476	NO	YES	YES		4
54	Kulkarni H. V., Powar S. K.	2011	A Simple Normal Approximation for Weibull Distribution with Application to Estimation of Upper Prediction Limit	Journal of Probability and Statistics	863274, 10	NO	YES	YES		3
55	Patil M. K., Shirke D. T.	2011	Bivariate Zero-inflated Power Series Distribution	Applied Mathematics	2	No	No	Yes		2
56	Kulkarni H.V., Powar S.K.	2011	Comparison of some one sample confidence intervals for estimating the mean of the weibull distribution	International Research Journal of Agricultural Economics and Statistics	3 (1), 29-34	NO	NO	YES		0
57	Kulkarni H. V., Patil S. C.	2011	Analysis of 2^n factorial experiments with exponentially distributed response variable: A comparative study	International Journal of Commerce and Business Management	4,119-124	NO	NO	YES		0
58	Ghute V. B., Shirke D. T.	2011	A Bivariate Nonparametric Synthetic Control Chart for Monitoring Process Location	Proceedings of International Congress on Productivity, Quality, Reliability and Modeling	1	No				0
59	Kulkarni, H. V.	2012	Comparison of Confidence Intervals for Poisson mean: Some new aspects	REVSTAT –Statistical Journal	10(2),211-227	YES	YES	YES		37
60	Khilare S. K., Shirke D. T.	2012	Nonparametric Synthetic Control Charts for Process Variation	Quality and Reliability Engineering International	28(2)	Yes				23

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
61	Mahadik S. B.	2012	Xbar charts with variable sample size, sampling interval, and warning limits	Quality and Reliability Engineering International	29(4),535-544	YES	YES	YES	1.409	18
62	Mahadik S. B.	2012	Variable sampling interval Hotelling's T^2 charts with runs rules for switching between sampling interval lengths	Quality and Reliability Engineering International	28(2),131-140	YES	YES	YES	1.409	16
63	Mahadik S. B.	2012	Exact results for variable sampling interval Shewhart control charts with runs rules for switching between sampling interval lengths	Communications in statistics – Theory and Methods	41(24),4453-4469	YES	YES	YES	0.424	12
64	Ghute V. B, Shirke D. T.	2012	A Nonparametric Signed-Rank Control Chart for Bivariate Process Location	Quality Technology and Quantitative Management	9(4)	Yes				12
65	Potdar K. G., Shirke D. T.	2012	Inference for the distribution of a k-unit parallel system with Exponential distribution as the component Life Distribution based on Type-II Progressively censored sample	International Journal of Agricultural and Statistics Sciences	8(2)	No				1
66	Mahadik S. B.	2012	Hotelling's T^2charts with variable control and warning limits'	International Journal of Quality Engineering and Technology	3(2),158-167	NO	YES	YES		1
67	Ghute V. B, Shirke D. T.	2012	Bivariate Nonparametric Synthetic Control Chart Based on Sign Statistic	Journal of Industrial and Systems Engineering	6(2)	No				1

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
68	Patil M. K., Shirke D. T.	2012	Process Capability Index for Zero-inflated Poisson Process	International Journal of Mathematical Sciences and Engineering Applications	6(5)	No				0
69	Khilare S. K., Shirke D. T.	2012	A Nonparametric Side-Sensitive Synthetic Control Chart Using Sign Statistic	International Journal of Global Research in Science and Technology	1(1)	No	No	No		0
70	Mahadik S. B.	2013	Variable sample size and sampling interval Xbar charts with runs rules for switching between sample sizes and sampling interval lengths	Quality and Reliability Engineering International	29(1),63-76	YES	YES	YES	1.409	18
71	Potdar K. G., Shirke D. T.	2013	Inference for the Parameters of Generalized Inverted Family of Distributions	ProbStat Forum	6	No				14
72	Mahadik S. B.	2013	Xbar charts with variable sampling interval and warning limits	Journal of Academia and Industrial Research	2(2),103-110	NO	NO	YES		8
73	Mahadik S. B.	2013	Variable sample size and sampling interval Hotelling's T^2charts with runs rules for switching between sample sizes and sampling interval lengths	International Journal of Reliability, Quality and Safety Engineering	20(4),	No	YES	YES		3
74	Mahadik S. B.	2013	Hotelling's T^2charts with variable sampling interval and warning limits	International Journal of Quality Engineering and Technology	3(4),289-302	NO	YES	YES		3

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
75	Ghute V. B., Shirke D. T.	2013	Distribution-free Control Chart for Bivariate Process	Journal of Academic and Industrial Research	1(11)	No				3
76	Mahadik S. B.	2013	Xbar charts with variable control and warning limits	Economic Quality Control	28(2),117-124	YES	YES	YES		2
77	Potdar K. G., Shirke D. T.	2013	Reliability Estimation for the Distribution of a k-unit Parallel System with Rayleigh Distribution as the Component Life Distribution	International Journal of Engineering Research and Technology	2(8)	No				2
78	Kulkarni, H. V.Ashis SenGupta, U.D. Hubale	2013	Prediction intervals for environmental events based on Weibull distribution	Environmental and Ecological Statistics	22(1),87-104	YES	YES	NO		2
79	Ghute V. B., Shirke D. T.	2013	A Multivariate Moving Average Control Chart for Mean Vector	Journal of Academic and Industrial Research	1(12)	No				2
80	Sakate D. M., Kashid D. N.	2013	Model Selection in GLM Based on the Distribution Function Criterion	Model Assisted Statistics and Applications	8(4), 321-332.	NO	YES	YES		1
81	Nirmale S.S., Shaikh A.C., Kulkarni H.V., Mudholkar R.R.	2013	MATLAB based TF Estimation and Verification of Moisture-Free PVC Temperature	IJCA Proceedings on International Conference on Recent Trends in Information Technology and Computer Science 2012	2012, 12-16	NO	NO	YES		1
82	Kumbhar R. R., Shirke D. T.	2013	A note on b-content g-level tolerance interval for IFR class of distributions	International Journal of Engineering Research & Technology	2(9)	No	No	Yes		0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
83	Jadhav N. H., Kashid D. N., Kulkarni S. R.	2014	Subset selection in multiple linear regression in the presence of outlier and multicollinearity	Statistical Methodology	19,44-59	NO	YES	YES		19
84	Potdar K. G., Shirke D. T.	2014	Inference for the scale parameter of lifetime distribution of k-unit parallel system based on progressively censored data	Journal of Statistical Computation and Simulation	84(1)	Yes	Yes	Yes		11
85	Sakate, D. M., Kashid, D. N	2014	A deviance-based criterion for model selection in GLM	Statistics	48(1), 34-48.	Yes	Yes	Yes		7
86	Sakate, D. M., Kashid, D. N	2014	Variable selection via penalized minimum φ-divergence estimation in logistic regression.	Journal of Applied Statistics	41(6), 1233-1246.	yes	Yes	Yes		6
87	Khilare S. K., Shirke D. T.	2014	The Steady-State Performance of Cumulative Count of a Conforming Control Chart Based On Runs Rules	Communications in Statistics - Theory and Methods	43(15)	Yes	Yes	Yes		5
88	Pawar V. Y., Shirke D. T.	2014	Nonparametric Moving Average Control Chart for Process Variability	International Journal of Engineering Research & Technology	3(6)	No	Yes			5
89	Dhumal B. R., Shirke D. T.	2014	A modified test for testing exponentiality using transformed data	Journal of Statistical Computation and Simulation	84(2)	Yes	Yes	Yes		4
90	Jadhav N. H., Kashid D. N.	2014	Subset Selection in Multiple Linear Regression for Non-Normal Symmetric Error Terms	Journal of Applied Statistical Science	20(4),365-381	NO	YES	YES		3

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
91	Supanekar S. R., Shirke D. T.	2014	A new bivariate generalized power series distribution	INTERNATIONAL JOURNAL OF AGRICULTURAL AND STATISTICAL SCIENCES	10(2)	No	Yes			3
92	Jadhav N. H., Kashid D. N.	2014	Robust Winsorized Shrinkage Estimators for Linear Regression Model,A Simulation Study	Journal of Modern Applied Statistical Methods	13(2),131-150	NO	YES	YES		2
93	Mahadik S. B.	2014	Hotelling's T^2charts with variable sample size, sampling interval, and warning limits	International Journal of Science, Engineering and Technology Research	3(1),41-54	NO	NO			2
94	Powar S. K., Kulkarni H. V.	2014	Estimation of confidence interval for hydrological design value for some continuous distributions under complete and censored samples	Stochastic Environmental Research and Risk Assessment	29(6),1691-1708	YES	YES	YES		2
95	Kulkarni, H. V.Patil S. C.	2014	Some New Methods of Interval Estimation for Expected Response in 2^n Factorial Experiments for exponentially Distributed Response Variables	Statistical Science and Interdisciplinary Research	14,71-84	NO	NO	NO		0
96	Potdar K. G., Shirke D. T.	2014	Reliability estimation of k-unit series system based on progressively censored data	Electronic Journal of Applied Statistical Analysis	7(2)	No	Yes	Yes		0
97	Sakate, D. M., Kashid, D. N.	2014	Comparison of Estimators in GLM with Binary Data	Journal of Modern Applied Statistical Methods	13(2), 10	No	Yes	Yes		0

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98	Mahadik S. B.	2014	charts with variable sampling interval, control limits, and warning limits	International Journal of Engineering Research & Technology	3,615-630	NO	NO	YES		0
99	Patil S. H., Shirke D. T.	2015	Economic design of moving average control chart for non-normal data using variable sampling intervals	Journal of Industrial and Production Engineering	32(2)	No	Yes	Yes		6
100	Khilare S. K., Shirke D. T.	2015	Steady-state behavior of nonparametric control charts using sign statistic	Production	25(4)	No	Yes	Yes		4
101	Khilare S. K., Shirke D. T.	2015	Fraction nonconforming control charts with m-of-m runs rules	International Journal of Advanced Manufacturing Technology	78(5)	Yes	Yes			4
102	SenGupta A., Kulkarni H.V., Hubale U.D.	2015	Prediction intervals for environmental events based on Weibull distribution	Environmental and Ecological Statistics	22 (1), 87-104	YES	YES	YES		3
103	Desai S. S., Kashid D. N.	2015	Estimation of regression parameters using SVM with new methods for meta parameters	International Journal of Data Mining, Modeling and Management	7(3),239-256	NO	YES	YES		2
104	Powar S. K., Kulkarni H. V.	2015	Estimation of confidence interval for hydrological design value for some continuous distributions under complete and censored samples	Stochastic Environmental Research and Risk Assessment	29 (6), 1691-1708	YES	YES	YES		2
105	Chougale P. and Pawar S. D.	2015	Understanding organizational culture through OCTAPACE profile: an empirical study of the university.	International Journal of Research in Commerce, IT and Management	5(7), 13-17.	No	No	No		0

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106	Kulkarni H.V., Patil S.C.	2015	On Confidence Intervals for Expected Response in 2^n Factorial Experiments with Exponentially Distributed Response Variables	Statistical Paradigms: Recent Advances and Reconcillations	14, 71-84	NO	NO	YES		0
107	Mahadik S. B.	2015	A Simultaneous Evaluation of Adaptive Design Parameters Policies for Hotelling's T^2 Charts.	International Journal of Science, Engineering and Technology Research	4,3936-3944	NO	NO			0
108	Dhumal B. R., Shirke D. T.	2015	A modified one-sample test for Goodness-of Fit	Journal of Statistical Computation and Simulation	85(2)	Yes	Yes	Yes		0
109	Barale M. S., Shirke D. T.	2016	Cascaded Modeling for PIMA Indian Diabetes Data	International Journal of Computer Applications	139 (11)	No	No	Yes		4
110	Jadhav N. H., Kashid D. N.	2016	Robust Linearized Ridge M-estimator for Linear Regression Model	Communications in Statistics - Simulation and Computation	45(3), 1001-1024	YES	YES	YES	0.49	2
111	Shirke D. T., Khorate S. D.	2016	Power comparison of data depth-based nonparametric tests for testing equality of locations	Journal of Statistical Computation and Simulation	87(8)	Yes	Yes	Yes		2
112	Chavan A.R., Shirke D. T.	2016	Nonparametric tests for testing equality of location parameters of two multivariate distributions	Electronic Journal of Applied Statistical Analysis	9(2)	No	Yes	Yes		2
113	Kamble T. S., Kashid D. N.	2016	A Simulation Study on Variable Selection in Regression using Multilayer Feed-forward Network	Journal of Modern Applied Statistical Methods	15(1), 670-689	NO	YES	YES		0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
114	Mathur, S., Sakate, D. M., Datta, S.	2016	A New Scale-Invariant Nonparametric Test for Two-Sample Bivariate Location Problem with Application.In The Proceedings of the International Conference on Robust Rank-based and Nonparametric Methods	Robust Rank-Based and Nonparametric Methods(Book)	175-187	No	Yes	Yes		0
115	Sakate D. M., Kashid D. N.	2016	A new robust model selection method in GLM with application to ecological data.	Environmental Systems Research,	5(1), p.1.	No	No	YES		0
116	Godase S.S., Shirke D.T., Kashid D.N.	2017	Interval estimation for lifetime distribution of k-unit parallel system	ProbStat Forum	10,34-50	No	No	No		13
117	Patil S. H., Shirke D. T.	2017	Economic design of non parametric sign control chart	Communications in Statistics-Theory and Methods	46 (18)	Yes	Yes	Yes		4
118	Patil S. H., Shirke D. T.	2017	Economic design of variable sampling interval sign control chart	Journal of Industrial and Production Engineering	34 (4)	No	Yes	Yes		2
119	Patil S. H., Shirke D. T.	2017	Economic design of moving average control chart for non-normally distributed data: a comparative study	International Journal of Operational Research	28(1)	Yes	Yes	Yes		2
120	Kamble T.S., Kashid D.N.	2017	Variable selection in linear regression in the presence of outliers	International Journal of Data Analysis Techniques and Strategies	9(2),167-188	No	Yes	YES		1

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121	Patil K. P., Kulkarni H. V.	2017	On the Interval Estimation of Stress-Strength Reliability for Exponentiated Scale Family of Distributions	Quality and Reliability Engineering International	33 (7), 1447-1453	YES	YES	YES		1
122	Pawar S. D., Shirke D. T.	2017	Nonparametric tests for multivariate locations based on data depth	Communications in Statistics: Simulation and Computation		Yes	Yes	YES		1
123	Mahadik S. B.	2017	A unified approach to adaptive Shewhart control charts	Communications in Statistics - Theory and Methods		YES	YES	YES	0.424	1
124	Mathur, S. K., Sakate, D. M.	2017	A new test for two-sample location problem based on empirical distribution function.	Communications in Statistics-Theory and Methods	46(24), 12345-12355	Yes	Yes	Yes		1
125	Godase S.S., Shirke D.T., Kashid D.N.	2017	Tolerance intervals and confidence intervals for the scale parameter of Pareto-Rayleigh distribution	Electronic Journal of Applied Statistical Analysis	10(1) 29-49	No	Yes	YES		0
126	Godase S.S., Shirke D.T., Kashid D.N.	2017	Prediction and tolerance intervals for the lifetime distribution of K-unit parallel system based on generalized variable approach	International Journal of Agri. and Statistical Sciences	13(2),663-772	No	Yes	YES		0
127	Shirke D. T., Supanekar S. R., Bhati D.	2017	On k-distorted generalized discrete family of distributions	Communications in Statistics-Theory and Methods	46 (23)	Yes	Yes	Yes		0
128	Bilawar P.B., Pujar S.M., Pawar S.D.	2017	E-information literacy index of university teachers of Maharashtra, India: A case study	DESIDOC Journal of Library and Information Technology		Yes	Yes	YES		0

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129	Potdar K. G., Shirke D. T.	2017	Confidence Intervals for the Scaled Half-Logistic Distribution under Progressive Type-II Censoring	Journal of Modern Applied Statistical Methods	16(1)	No	Yes	Yes		0
130	Shirke D. T., Khorate S. D.	2018	Two-Sample Nonparametric Test for Testing Equality of Locations Based on Data Depth	Journal of the Indian Society for Probability and Statistics	19 (1)	No	No	Yes		1
131	Kulkarni H.V., Patil K.P.	2018	Two sample comparisons including zero-inflated continuous data: A parametric approach with applications to microarray experiment	Mathematical Biosciences	289, 19-28	YES	YES	YES		1
132	Pawar V. Y., Shirke D. T., Khilare S. K.	2018	Steady-State Behavior of Nonparametric Synthetic Control Chart Using Signed-Rank Statistic	Pakistan Journal of Statistics and Operation Research	14 (1)	No	No	Yes		1
133	Shirke D. T., Barale M. S.	2018	A nonparametric CUSUM chart for process dispersion	Quality and Reliability Engineering International	34 (5)	Yes	Yes	Yes		1
134	SenGupta A., Kulkarni H.V.	2018	Universal And Efficient Tests for Homogeneity of Mean Directions of Circular Populations	Statistica Sinica	SS-2017-0501	YES	NO	YES		0
135	Desai S.S., Sakate D.M.	2018	Subset selection in nonlinear regression using Support Vector Machine	International Journal of Agri. and Statistical Sciences	14(1), 13-22	No	Yes	YES		0
136	Desai, S. S., Kashid, D. N., Sakate, D. M.	2018	Subset selection in nonlinear poisson regression using support vector regression: a simulation study.	International journal of agricultural and statistical sciences	14(1), 13-22	No	Yes	Yes		0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
137	Jadhav N. H., Kashid D. N.	2018	Ridge Least Squares Ratio Estimator for Linear Regression Model	International Journal of Agri. and Statistical Sciences	14(2), 449-447	No	NO	YES		0
138	Pawar V. Y., Shirke D. T., Khilare S. K.	2018	Nonparametric Moving Average Control Charts Using Sign and Signed-Rank Statistics	Int. J. Sci. Res. in Mathematical and Statistical Sciences	5 (4)	No	No	Yes		0
139	Kulkarni H.V., Patil K.P.	2018	Improved inference for the shape-scale family of distributions under type-II censoring	Journal of Statistical Computation and Simulation	88 (12), 2259-2272	YES	YES	YES		0
140	Khilare S. K., Shirke D. T.	2018	Control Charts for Monitoring Parameters of the Generalized Exponential Distribution	International Journal of Statistics and Reliability Engineering	4 (2)	Yes				0
141	Kamble T.S., Kashid D.N., Sakate D.M.	2018	Consistent and robust variable selection in regression based on Wald test	Communications in Statistics - Theory and Methods	48(8), 1981-2000	Yes	Yes	YES	0.424	0
142	Salamwade, R. L., Sakate, D. M., Mathur, S. K.	2019	ϕ-Divergence Loss-Based Artificial Neural Network	Journal of Modern Applied Statistical Methods	17(2), 7	No	Yes	Yes		0
143	Godase D. G. Mahadik S. B.	2019	The SPRT Control Chart for Process Dispersion	Quality and Reliability Engineering International		YES	YES	YES	1.409	0
144	Desai S.S., Kashid D. N.	2019	Support Vector Machine based Modified Sp Statistic for Subset Selection with Non-Normal Error Terms,	Journal of Modern Applied Statistical Methods	In Press	No	Yes	YES		0

Sr. No.	Author(s)	Year	Title of Publication	Name of Journal	Volume No.	SCI	SCOPUS	Google Scholar	Impact Factor	Citations
145	Chavan A. R , Shirke D. T.	2019	Simultaneously Testing for Location and Scale Parameters of Two Multivariate Distributions	Revista Colombiana de Estadística	42 (2)	No	Yes	Yes		0
146	Pawar S. D., Shirke D. T.	2019	Nonparametric tests for multivariate multi-sample locationsbased on data depth.	Journal of Statistical Computation and Simulation	89(09), 1574-1591	Yes	Yes	YES	0.767	0
147	Barale M. S., Shirke D. T.	2019	Nonparametric Control Charts Based on Data Depth for Location Parameter	Journal of Statistical Theory and Practice	13 (3)	No	Yes	Yes		0
148	Shende K. S. , Kashid D. N.	2019	Least absolute deviation estimator based consistent model selection in regression	Communications for Statistical Applications and Methods	26(3), 273–293	No	Yes	YES		0
149	Koli, R. R., Phadatare, M. R., Sinha, B. B., Sakate, D. M., Ghule, A. V., Ghodake, G. S., ... & Fulari, V. J.	2019	Gram bean extract-mediated synthesis of Fe3O4 nanoparticles for tuning the magneto-structural properties that influence the hyperthermia performance.	Journal of the Taiwan Institute of Chemical Engineers,	95, 357-368.	Yes	Yes	Yes		0
150	Shirke D. T., Barale M. S.	2019	A variable sampling interval sign chart for variability based on deciles	Communications in Statistics-Simulation and Computation	-	Yes	Yes	Yes		0
151	Sun J., Sakate D. M., Mathur S.	2019	A nonparametric procedure for changepoint detection in linear regression.	Communications in Statistics-Theory and Methods	--	Yes	Yes	Yes	0.424	0