

Shashibhushan B. Mahadik

Department of Statistics
Shivaji University
Vidyanagar, Kolhapur
INDIA, 416004

✉ sbm_stats@unishivaji.ac.in

☎ +91 9921516765



Education

Ph. D. (Statistics)	2007, Shivaji University, Kolhapur
M. Phil. (Statistics)	2000, Shivaji University, Kolhapur
SET (Statistics)	1998, University of Pune
M. Sc. (Statistics)	1997, Shivaji University, Kolhapur
B. Sc. (Statistics)	1995, Yashawantrao Chavan College of Science, Karad

Employment Details

Professor	December 2017– till date, Department of Statistics, Shivaji University, Kolhapur
Associate Professor	December 2014 – December 2017, Department of Statistics, Shivaji University, Kolhapur
Assistant Professor	August 2014 – December 2014, Department of Statistics, Shivaji University, Kolhapur August 2012 – August 2014, Department of Statistics, Solapur University, Solapur
Lecturer/Assistant Professor	December 2001– August 2012, D R K College of Commerce, Kolhapur
Lecturer	September 1998 – April 1999, August 1999 – April 2000, June 2000 – April 2001, and August 2001 – December 2001, Department of Statistics, Shivaji University, Kolhapur

Research Interests

Statistical Process Control: *Adaptive control charts, Control charts based on sequential sampling*

Distance Sampling: *Accuracy and robustness of distance sampling methods*

Research Impact

Citation Index (2019)

Google Scholar: 177  <https://scholar.google.co.in/citations?user=GKjfqL8AAAAJ&hl=en>

SCOPUS: 113  <https://www.scopus.com/authid/detail.uri?authorId=18037480400>

h-Index (2019)

Google Scholar: 8

SCOPUS: 6

Projects

2019-2021 The Development of Two-Sided SPRT Control Charts *Sponsored by Shivaji University, Kolhapur*

2009-2011 The Development of Simple Adaptive Control Charts *Sponsored by UGC, New Delhi*

Courses Taught

Linear Algebra	Sampling Theory
Distribution Theory	Stochastic Processes
Estimation Theory	Statistical Quality Control
Theory of Testing of Hypotheses	Regression Analysis
Linear Models and Design of Experiments	Business Statistics
Planning and Analysis of Industrial Experiments	

Publications

- 1 Godase, D. G. & Mahadik, S. B. (2019). The SPRT control chart for process dispersion. *Quality and Reliability Engineering International*, doi.org/10.1002/qre.2481.
- 2 Mahadik, S. B. (2017). A unified approach to adaptive Shewhart control charts. *Communications in Statistics-Theory and Methods*, 46(20), 10272-10293.
- 3 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.
- 4 Mahadik, S. B. (2014a). Hotelling's T^2 charts with variable sample size, sampling interval, and warning limits. *International Journal of Science, Engineering and Technology Research*, 3(1), 41-54.
- 5 Mahadik, S. B. (2014b). \bar{X} charts with variable sampling interval, control limits, and warning limits. *International Journal of Engineering Research & Technology*, 3, 615-620.
- 6 Mahadik, S. B. (2013a). Variable sample size and sampling interval Hotelling's T^2 charts with runs rules for switching between sample sizes and sampling interval lengths. *International Journal of Reliability, Quality and Safety Engineering*, 20(04), 1350015.
- 7 Mahadik, S. B. (2013b). Hotelling's T^2 charts with variable sampling interval and warning limit. *International Journal of Quality Engineering and Technology*, 3(4), 289-302.

- 8 Mahadik, S. B. (2013c). Variable sample size and sampling interval \bar{X} charts with runs rules for switching between sample sizes and sampling interval lengths. *Quality and Reliability Engineering International*, 29(1), 63–76.
- 9 Mahadik, S. B. (2013d). \bar{X} charts with variable control and warning limits. *Economic Quality Control*, 28(2), 117–124.
- 10 Mahadik, S. B. (2013e). \bar{X} charts with variable sample size, sampling interval, and warning limits. *Quality and Reliability Engineering International*, 29(4), 535–544.
- 11 Mahadik, S. B. (2013f). \bar{X} charts with variable sampling interval and warning limits. *Journal of Academia and Industrial Research*, 2(2), 103–110.
- 12 Mahadik, S. B. (2012a). 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.
- 13 Mahadik, S. B. (2012b). Hotelling's T^2 charts with variable control and warning limits. *International Journal of Quality Engineering and Technology*, 3(2), 158–167.
- 14 Mahadik, S. B. (2012c). 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.
- 15 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(1-4), 379–384.
- 16 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.
- 17 Mahadik, S. B. & Shirke, D. T. (2007a). Economic design of a modified variable sample size and sampling interval \bar{X} chart. *Economic Quality Control*, 22(2), 273–293.
- 18 Mahadik, S. B. & Shirke, D. T. (2007b). On the superiority of a variable sampling interval control chart. *Journal of Applied Statistics*, 34(4), 443–458.

Students Advising

Ph.D.: 03 ongoing

M. Phil.: 02 ongoing

Co-Curricular Activities

Member of the Authorities

Faculty of Science and Technology, Shivaji University, Kolhapur

Board of Studies in Business Economics, Shivaji University, Kolhapur

Board of Studies in Statistics, Yashwantrao Chavan Institute of Science, Satara

Board of Studies in Statistics, Sadguru Gadage Maharaj College, Karad

Editorial Board Member

International Journal of Quality Engineering and Technology

Reviewer

Quality and Reliability Engineering International

Communications in Statistics – Theory and Methods

Communications in Statistics – Simulation and Computation
International Journal of Advanced Manufacturing technology
Quality Technology & Quantitative Management

Academic Events Organized

Organizing Committee Member: *National Seminar on Statistical Modeling and Applications*, Shivaji University, Kolhapur, 23-24 March, 2018.

Convener: *National Conference on Applied Statistics and Informatics (NCASI)*, Shivaji University, Kolhapur, 10-11 March, 2017.

Organizing Committee Member: *National Conference on Applied Statistics (NCAS)*, Shivaji University, Kolhapur, 11-12 March, 2016.

Avishkar Coordinator, Solapur University, Solapur, 2013-14.

Organizing Secretary: *National Conference on New Horizons of Statistics (NCNHS)*, Solapur University, Solapur, 19-21 Oct, 2013.

Organizing Secretary: *National Workshop on Statistical Computing (NWSC)*, Solapur University, Solapur, 21-23 Sept, 2013.

Professional Memberships

Indian Society for Probability and Statistics (ISPS)

International Indian Statistical Association (IISA)

Shivaji University statistics Teachers' Association (SUSTA)
