

Dr. Osama Hasan Arif

June 2019

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Education

Degree	Field of Study	Institution	Year
Ph.D.	Statistics Process Control	Sheffield Hallam University, UK	1996-2000
M.Sc.	Statistics	Sheffield University, UK	1994-1996
B.Sc.	Statistics	King Abdul Aziz University, SA	1987-1992

Academic Experience

From	To	Institution	Rank
2017	Date	King Abdulaziz University, KAU	Associate Professor
2002	2017	King Abdulaziz University, KAU	Assistant Professor

Institutional and Professional Services

• Administration Experience

1. Vice President for Development and Quality, Jouf University, 2018-Date.
2. Dean of Quality and Academic Accreditation, Jouf University, 2017- Date.
3. President's Consultant for Strategic Plan, Jouf University, 2017- Date.
4. Lead all teams work to satisfy NCAAA requirement for Institution Academic Accreditation, until Jouf University got Institution Academic Accreditation
5. Assigned to work from KAU to Jouf University, 2017 – Date.
6. Director General of TQM Program, KAU, 2005-2009.
7. Head of all ISO 9001 committees, 2005-2009 at King Abdul Aziz University.
8. Head of Measurement and Evaluation Unit at CLTD, KAU, 2003-2005.

• Consultation

1. Executive Manager for Quality & Excellence Consultant, Think Tank at KAU, 2007- Date.
2. Quality Consultant, TQM Program, KAU, 2001-2005.
3. Quality consultant at six universities during 2007-2017, which are:
 - a. King Saud University, KSU

- b. Taiba University, TU
- c. Prince Noura University, PNU
- d. Islamic University, IU
- e. North Border University, NBU

- **Committees**

1. Member, Top Standing Committee for Strategic Plan, Jouf University, 2017- Date.
2. Member, Top Standing Committee for Quality and Academic Accreditation, Jouf University, 2017- Date.
3. Member, Top Standing Committee for Excellence Awards, Jouf University, 2019 - Date.
4. Member, Top Standing Committee for Endowments, Investment and Independent Accounts., Jouf University, 2017- Date.
5. Treasury, Committee of Excellence Awards for Excellence Performance, Jouf University, 2019 - Date.
6. Chairman, Committee of Evaluate Candidate's Files for Excellence Award, Jouf University, 2019 – Date.
7. Chairman, Committee of International Academic Classifications, Jouf University, 2019 – Date.
8. Chairman, Executive Standing Committee for Strategic Plan, Jouf University, 2017 – Date.
9. Chairman, Standing Committee for Program Academic Accreditation, Jouf University, 2019 – Date.
10. Chairman, Executive Standing Committee for Quality and Academic Accreditation, Jouf University, 2018 – Date.
11. Chairman, Standing Committee for Governance, Jouf University, 2018 – Date.
12. Chairman, Standing Committee for follow up Strategic Plan of colleges and Deanships, Jouf University, 2018 – Date.
13. Chairman, Standing Committee for Measurement and Evaluation, Jouf University, 2018 – Date.

14. Chairman, Standing Committee for QS, Jouf University, 2019 – Date.
15. Chairman, Standing Committee for Webometrics, Jouf University, 2019 – Date.
16. Chairman, Standing Committee for SAQF, Jouf University, 2018 – Date.
17. Member, Engineering Faculty Council, Jouf University, 2017-2018.
18. Member, Education Faculty Council, Jouf University, 2017-2018.
19. Member, Standing Committee for Scientific Chairs, Jouf University, 2019 – Date.
20. Member, Standing Committee for Faculty Members Affairs, Jouf University, 2019 – Date.
21. Member, Committee of Supervision on JU's Websites, Jouf University, 2018 – Date.
22. Member, King Abdul Aziz Quality Prize, SASO Saudi Arabia, 2009-2012.
23. Chairman of all Committees for ISO 9001:2008, TQM program, King Abdulaziz University, 2012005-2009.

Membership in Professional Societies and Organizations

Senior Member at American Society for Quality (ASQ)

International Society of Six Sigma Professionals (ISSSP)

Principal Publications

2019

1. Shawky, A., Al-Shomrani, Ali and **Arif, Osama H.** (2019). Application of Lomax Model using MCMC Technique in Analyzing Software Reliability Data. The Journal of Scientific and Engineering Research 6(1):112-124.

2018

1. **Arif, Osama H.** and Aslam, Muhammad (2018). A New Generalized Range Control Chart for the Weibull Distribution. Complexity, Volume 2018, Article ID 9453589, **ISI**.
2. Aslam, Muhammad and **Arif, Osama H.** (2018) Testing of Grouped Product for the Weibull Distribution Using Neutrosophic Statistics. Symmetry, Vol.10, 403; doi:10.3390/sym10090403. **ISI**

2017

1. Aslam, Muhammad, **Arif, Osama H.** and Jun, Chi-Hyuck (2017). An attribute control chart for a Weibull distribution under accelerated hybrid censoring. PLOS ONE. 12 (3): e0173406. doi:10.1371/journal.pone.0173406. **ISI**
2. **Arif, Osama H.**, Aslam, Muhammad, and Jun, Chi-Hyuck (2017). Hybrid Exponentially Weighted Moving Average Chart using Exponential Distribution. Journal of Computational and Theoretical Nanoscience Vol. 14, 5309-5314. **ISI**
3. **Arif, Osama H.**, Aslam, Muhammad, and Jun, Chi-Hyuck (2017). Acceptance sampling plan for multiple manufacturing lines using EWMA process capability index. Journal of Advanced Mechanical Design, Systems, and Manufacturing. Vol.11, No. 1. **ISI**
4. Aslam, Muhammad, Khan, Nasrullah and **Arif, Osama H.** (2017). THE EWMA MOVING AVERAGE CONTROL CHART FOR EXPONENTIAL DISTRIBUTION USING MULTIPLE DEPENDENT STATE SAMPLING. Advances and Applications in Statistics. Vol. 50, No. 1, Pages 51-71. **ISI**
5. Aslam, Muhammad, **Arif, Osama H.** and Jun, Chi-Hyuck (2017). A Control Chart for Gamma Distribution using Multiple Dependent State Sampling. Industrial Engineering and Management Systems. Vol. 16, No. 1, 109-117. **ISI**
6. Rao, G.S., Aslam, Muhammad and **Arif, Osama H.** (2017). Estimation of Reliability in Multicomponent Stress-Strength Based on two Parameter Exponentiated Weibull Distribution. Communications in Statistics: Theory and Methods. Vol.46, No.15, 7495-7502. **ISI**
7. **Arif, Osama H.**, Aslam, Muhammad, and Jun, Chi-Hyuck (2017). A EWMA np Control Chart for the Weibull Distribution. Journal of Testing and Evaluation, Vol.45, No. 3, 1022-1028. **ISI**

2016

1. Aslam, Muhammad, **Arif, Osama H.** and Jun, Chi-Hyuck (2016). An Attribute Control Chart Based on the Birnbaum-Saunders Distribution Using Repetitive Sampling. IEEE Access. December, Vol. 4, 9350-9360. **ISI**

2. **Arif, O.H.**, Aslam, Muhammad and Malik, Zanaib (2016). New Sampling Plan for Testing of Multiple Lots. *Journal of Computational and Theoretical Nanoscience* Vol. 13, 8254-8260. **ISI**
3. Al-Shomrani, Ali., **Arif, Osama H.**, Shawky, A., Hanif, Saman. And Shahbaz, Muhammad Qaiser (2016). Topp–Leone Family of Distributions: Some Properties and Application. *Pak.j.stat.oper.res.* Vol. 12, No.3, pp 443-451. **ISI**
4. Al-Shomrani, Ali., Shawky, A. I., **Arif, Osama H.** and Aslam, Muhammad. (2016). Log-logistic distribution for survival data analysis using MCMC. *Springer Plus.* Oct 12; 5-1774. **ISI**
5. Ahmed. Liaquat, Aslam, Muhammad, **Arif, Osama H.** and Jun, Chi-Hyuck (2016). Dispersion chart for some popular distributions under repetitive sampling. *Journal of Advanced Mechanical Design, Systems, and Manufacturing.* Vol.10, No. 4. **ISI**
6. Aslam, Muhammad, **Arif, Osama H.** and Jun, Chi-Hyuck (2016). A New Variable Sample Size Control Chart using MDS Sampling. *Journal of Statistical Commutation and Simulation.* Vol. 86, No. 18, 3620-3628. **ISI**
7. Aslam, Muhammad, Ahmad, Liaquat, and Jun, Chi-Hyuck **Arif, Osama H.** (2016). A Control Chart for COM-Poisson Distribution using Multiple Dependent State Sampling. *Quality and Reliability Engineering International.* Vol.32, No.8, 2803-2812. **ISI**
8. **Arif, Osama H.** and Eidous, Omar (2016). Fourth-Order Kernal Method for Simple Linear Degradation Model. *Communications in Statistics: Simulation and Computation.* **ISI.** DOI: 10.1080/03610918.2016.1186183
9. Al-Shomrani, Ali A., Shawky, A.I. and **Arif, Osama H.** (2016). Birnbaum-Saunders Distribution for Software Reliability Data Analysis Using Markov Chain Monte Carlo Method. *Journal of Computational and Theoretical Nanoscience* Vol. 13, 1042-1050. **ISI**
10. **Arif, Osama H.**, Aslam, Muhammad, and Sajjad, Sadia (2016). Developing Sampling Plan using Hybrid Exponentially Weighted Moving Average

(HEWMA) Statistics. Journal of Computational and Theoretical Nanoscience (CTN), Vol.13, 1656-1661. **ISI**

2015

1. **Arif, Osama H.**, Shawky, A.I. and Al-Shomrani, Ali A. (2015). Analysis of Dagum Model for Software Reliability using Markov Chain Monte Carlo method. Journal of Computational and Theoretical Nanoscience Vol 12,5153-5163. **ISI**
2. **Arif, Osama H.** and Aslam, Muhammad (2015). Control Chart for Exponentiated Weibull Distribution under Truncated Life Tests, MITTEILUNGEN KLOSTERNEUBURG, Vol.65, No.5 Pp: 199-214.
3. Aslam, Muhammad, Ahmad, Mashhood and **Arif, Osama H.** (2015). Improve Attribute Control Chart for Monitoring Non-Conforming Proportion in High Quality Process. MITTEILUNGEN KLOSTERNEUBURG, Vol.65, No.4 Pp: 300-309.

2014

1. **Arif, Osama H.** Al-Shomrani, Ali A. and Shawky, A.I. (2014). Inverse Weibull Model for Software Reliability Data Analysis using MCMC method for Non-Informative Set of Priors, Life Science Journal. 11 (12): 995-1003.

2013 and befor

1. Abdelfattah, Ezz H. and **Arif, Osama H.** (2013). On Generating the Control Limits of Multivariate Control Chart, with application. Canadian Journal on Computing in Mathematics, Natural Sciences, Engineering and Medicine Vol.4, No. 4, August.
٢. أسامة حسن عارف وعز عبدالفتاح حسن. التحليل الإحصائي باستخدام برنامج SPSS 14، ٢٠٠٧. دار حافظ للنشر - جدة، المملكة العربية السعودية. رقم الإيداع ٤ - ٥٢ - ٦٥٤ - ٩٩٦٠
3. Kanji, G.K. and **Arif, Osama H.** Statistical Process Control. Wisdom House Publications Ltd. Leeds, UK 2003. ISBN: 1-84290-053-6.
4. **Arif, Osama H.** Quantile Approach for Six Sigma. 8th World Congress for Total Quality Management, Dubai 2003.
5. Kanji, G.K. and **Arif, Osama H.** Median Rankit Control Chart for Weibull Distribution. Journal of Applied Statistics. Total Quality Management, 2001. **ISI**

6. Kanji, G.K. and **Arif, Osama H.** Median Rankit Control Chart by Quantile Approach. Journal of Applied Statistics, 27, No. 6, pp: 757-770. 2000. **ISI**
7. **Arif, Osama H.** Quality Improvement by Quantile Approach. 52nd International Statistical Institute (ISI), Helsinki, Finland 1999.

Research Interests

- Statistical Quality Control Techniques
- Statistical Process Control (SPC)
- Total Quality Management (TQM)
- Quality Improvement (Q.I.)
- Quality Measurement
- Continuous Improvement
- Quality in Higher Education (Q.H.E.)
- Six Sigma
- Regression analysis and empirical model building
- Simulation
- Strategic Plan

M.Sc. Thesis Supervised

1. The Possibility of Implementation of Six Sigma to Assess and Develop the Quality of Education in AL-Hasa Governorate (Male), (2001). Dep. Of Statistics, Faculty of Science, King Abdul Aziz University.
2. Possibility of Implementing Six Sigma Criterion in Jeddah Technology College, (2013). Dep. Of Statistics, Faculty of Science, King Abdul Aziz University.

Teaching

- Stat 111: Principle of Statistics
- Stat 115, 130: Statistics for Economics

- Stat 271: Business Statistics
- Stat 333: Statistical Process Control
- Stat 241, 441: Statistics Using Minitab
- Stat 626: Statistical Process Control for Postgraduate Students
- Stat 691: Special Topics for Postgraduate Students
- Stat 699: MSc Project for Postgraduate Students