E.V. Gijo

Qualification

- PhD. (Statistics)
- M. Tech (Quality, Reliability and Operations Research)
- M. Sc (Statistics)
- Qualified Assessor for ISO 9001 and ISO 14001
- Certified Master Black Belt in Six Sigma

Areas of Interest / Expertise

Reliability, Lean Six Sigma, Quality Management, Statistical Process Control, Design of Experiments, Taguchi Methods, Business Forecasting, Statistical Modelling

Publications

Book

1. Antony, J. Vinodh, S. And Gijo, E.V. (2016). Lean Six Sigma for Small and Medium Sized Enterprises: A Practical Guide, CRC Press, NY.

Articles in International Refereed Journals

1. Roy, S., Gijo, E.V. and Pradhan, B. (2016). Inference based on progressive Type-I interval censored data from log-normal distribution, Communications in Statistics - Simulation and Computation, DOI: 10.1080/03610918.2016.1206930.
2. Antony, J., Rodgers, B. and Gijo, E.V. (2016). Can Lean Six Sigma make UK public sector organisations more efficient and effective?, International Journal of Productivity and Performance Management, 65(7): 995-1002.

3. Antony, J., Gijo, E.V., Kumar, V. and Ghadge, A. (2016). A multiple case study analysis of Six Sigma practices in Indian manufacturing companies, International Journal of Quality & Reliability Management, 33(8): 1138-1149.
4. Gijo, E.V. and Balakrishna, N. (2016). SARIMA models for forecasting call volume in emergency services, International Journal of Business Excellence, 10(4): 545–561.
5. Bhat, S., Gijo, E.V. and Jnanesh, N.A. (2016). Productivity and Performance Improvement in Medical Records Department of a Hospital: An Application of Lean Six Sigma, International Journal of Productivity and Performance Management, 65(1): 98-125.
6. Guru Prasad, A., Saravanan, S., Gijo, E.V., Murty, D.S., Tatachar, R. and Suratkar, P. (2016). Six Sigma based approach to optimise the diffusion process of crystalline silicon solar cell manufacturing, International Journal of Sustainable Energy, 35(2): 190-204.
7. Gijo, E.V. and Scaria, J. (2014). Process improvement through Six Sigma with Beta correction: a case study of manufacturing company, The International Journal of Advanced Manufacturing Technology, 71(1-4): 717-730.
8. Gijo, E.V. and Antony, J. (2014). Reducing Patient Waiting Time in Outpatient Department Using Lean Six Sigma Methodology, Quality and Reliability Engineering International, 30(8):1481-1491.
9. Gijo, E.V., Bhat, S. and Jnanesh, N.A. (2014). Application of Six Sigma methodology in a small scale foundry industry, International Journal of Lean Six Sigma, 5 (2): 193-211.
10. Bhat, S., Gijo, E.V. and Jnanesh, N.A. (2014). Application of Lean Six Sigma methodology in the registration process of a hospital, International Journal of Productivity and Performance Management, 63(5): 613-643.
11. Antony, J., Sivanathan, L. and Gijo, E.V. (2014). Design of Experiments in a higher education setting, International Journal of Productivity and Performance Management, 63 (4): 513-521.
12. Gijo, E.V., Antony, J., Kumar, M., McAdam, R. and Hernandez, J. (2014). An application of Six Sigma methodology for improving the first pass yield of a grinding process, Journal of Manufacturing Technology Management, 25(1): 125-135.
13. Gijo, E.V., Antony, J., Hernandez, J. and Scaria, J. (2013). Reducing patient waiting time in a pathology department using the Six Sigma methodology, Leadership in Health Services, 26(4): 253-267.
14. Gijo, E.V. and Scaria, J. (2013). Application of statistical techniques for improving yield of a manufacturing process, International Journal of Business Excellence, 6(3): 361–375.

15. Gijo, E.V. and Sarkar, A. (2013). Application of Six Sigma to improve the quality of the road for wind turbine installation, The TQM Journal, 25(3): 244-258.
16. Gijo, E.V. and Scaria, J. (2012). Product design by application of Taguchi's robust engineering using computer simulation, International Journal of Computer Integrated Manufacturing, 25(9): 761-773.
17. Antony, J., Gijo, E.V. and Childe, S.J. (2012). Case study in Six Sigma methodology: manufacturing quality improvement and guidance for managers, Production Planning and Control: The Management of Operations, 23(8): 624-640.
18. Saravanan, S., Mahadevan, M., Suratkar, P. and Gijo, E.V. (2012). Efficiency improvement on the multicrystalline silicon wafer through six sigma methodology, International Journal of Sustainable Energy, 31(3): 143-153.
19. Gijo, E.V. (2011). 11 ways to sink your Six Sigma project, Six Sigma Forum Magazine, 11(1):27-29.
20. Gijo, E.V., Scaria. J. and Antony, J. (2011). Application of Six Sigma methodology to reduce defects of a grinding process, Quality and Reliability Engineering International, 27(8):1221-1234.
21. Gijo, E.V. and Scaria, J. (2011). Application of Taguchi method to optimise the characteristics of green sand in a foundry, International Journal of Business Excellence, 4(2):191–201.
22. Gijo, E.V. (2011). Demand forecasting of tea by seasonal ARIMA model, International Journal of Business Excellence, 4(1): 111–124.
23. Gijo, E.V. and Scaria, J. (2010) Reducing rejection and rework by application of Six Sigma methodology in manufacturing process, International Journal of Six Sigma and Competitive Advantage, 6(1/2):77-90.
24. Acharya, U.H., Gijo, E.V. and Antony, J. (2010). Quality engineering of a traction alternator by robust design, Journal of Engineering Manufacture, 224(2): 297-304.
25. Gijo, E.V. and Ravindran, G. (2008) ‘Quality in the construction industry: An application of DOE with goal programming’, Total Quality Management & Business Excellence, 19(11-12): 1249-1255.
26. Gijo, E.V. (2005) ‘Improving process capability of manufacturing process by application of statistical techniques’, Quality Engineering, 17(2): 309-315.
27. Gijo, E.V. and Rao, T.S. (2005) ‘Six Sigma Implementation – Hurdles and More Hurdles’, Total Quality Management & Business Excellence, 16(6): 721-725.

28. Gijo, E.V. and Perumallu, P.K. (2003) ‘Quality improvement by reducing variation: a case study’, Total Quality Management & Business Excellence, 14(9): 1023-1031.
29. Chowdhury, K.K., Gijo, E.V. and Raghavan, R. (2000) ‘Quality Improvement Through Design of Experiments: A Case Study’, Quality Engineering, 12(3): 407-416.
30. Chowdhury, K.K., Gijo, E.V. and Hegde, S. (2000) ‘Role of organized sector in developing small-scale industries as vendors: a case study of experimental approach’, Total Quality Management, 11(2): 171-178, 2000.

Editorial Work

- Editorial Advisory Board member for International Journal of Lean Six Sigma
- Regular reviewer for articles for more than 10 International Journals

List of Industries Served (as a Consultant/Trainer)

- Biocon Ltd, Bangalore
- Crossdomain Solutions Pvt. Ltd., Banaglore
- HAL, Bangalore
- Bosch Ltd.- Bangalore & Nasik
- Mother Dairy Fruiuts and Vegitables, Delhi
- TESCO – Bangalore
- LM Wind Power - Bangalore
- HDFC Standard Life Insurance – Delhi
- Hewlett-Packard E-global – Bangalore
- Vodafone India Services - Ahmadabad
- BHEL - Bhopal
- BEML - Mysore
- Iran Khodro Company - Tehran, Iran
- SAPCO - Tehran, Iran
- SEPR Refractories (Saint Gobain) – Palakkad
- Yell Adworks – Bangalore
- ITC: PSPD – Coimbatore
- National Academy of Defence Production – Nagpur
- TVS Motors Ltd – Hosur

- Enercon India Ltd – Daman
- ELGI Equipments Ltd. - Coimbatore
- Ashok Leyland – Chennai
- Sanmar Engineering Company – Chennai
- Macmillan Ltd – Bangalore
- RR Donnelly – Trivandrum
- Tata BP Solar – Bangalore
- Sasken Technologies – Bangalore
- Alamy Images India Pvt. Ltd. - Trivandrum
- Kirloskar Electric Company – Bangalore & Hubli
- Allianz Cornhill Information Services – Trivandrum
- RMESI – Trivandrum
- Larsen & Toubro Limited - Bangalore
- Larsen & Toubro Limited - Mysore
- GRASIM Industries – Harihar
- Mormugao Port Trust – Goa
- Otto Bilz India Private Limited – Bangalore
- Tata Tea Limited – Bangalore
- Sundaram Fasteners Ltd. - Hosur
- Stump, Scheule & Somappa Ltd. – Bangalore
- Bharat Builders – Bangalore
- KAP India – Bangalore
- SYSTAT Software – Bangalore

Personal Details

Address: SQC & OR Unit,
Indian Statistical Institute,
8Th Mile, Mysore Road, Bangalore – 560059.
Ph: +91 9448324220, +91 80 26985423
Email- gijoev@gmail.com, gijo@isibang.ac.in
https://scholar.google.co.in/citations?user=pLdbTOEAAAAJ&hl=en&oi=ao