

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

1. G. Celano and S. Fichera, 1999, "Multiobjective economic design of a  $\bar{x}$  control chart", Computers & Industrial Engineering, Vol. 37, Nos 1-2 pp. 129-132, Elsevier, ISSN: 0360-8352.
2. G. Celano, S. Fichera, V. Grasso , U. La Commare and G. Perrone, 1999, "An evolutionary approach to multi-objective scheduling of mixed model assembly lines", Computers & Industrial Engineering, Vol. 37, Nos 1-2, pp. 69-74, Elsevier, ISSN: 0360-8352.
3. G. Celano, S. Fichera, L. Fratini, and F. Micari, 2001, "Application of AI techniques for the optimal design of multi-pass cold drawing processes", Journal of Material Processing Technology, 113(1-3), pp.680-685, Elsevier, ISSN: 0924-0136.
4. G. Celano, A. Costa, S. Fichera, 2002, "An object oriented model for scheduling in agile manufacturing", Journal of Advanced Manufacturing Systems, 1(2), pp.173-188, WorldSciNet, ISSN: 0219-6867.
5. G. Celano, A. Costa, S. Fichera, 2003, "An evolutionary algorithm for pure fuzzy flowshop scheduling problems", International Journal of Uncertainty, Fuzziness and Knowledge-based Systems, 11(6), pp. 655-669, WorldSciNet, ISSN: 0218-4885.
6. G. Celano, A. Costa, S. Fichera and G. Perrone, 2004, "Human factor policy testing in the sequencing of manual mixed model assembly lines", Computers & Operations Research, 31(1), pp.39-59, Elsevier, ISSN: 0305-0548.
7. G. Celano, A. Costa, S. Fichera, 2004, "A comparative analysis of sequencing heuristics for solving the Toyota Goal Chasing problem", Robotics and Computer-Integrated Manufacturing, 20(6), pp. 573-581, Elsevier, ISSN: 0736-5845.
8. G. Celano, A. Costa, S. Fichera, 2006, "Statistical design of variable sample size and sampling interval  $\bar{X}$  control charts with run rules", International Journal of Advanced Manufacturing Technology, 28, pp.966-977, Springer, ISSN: 0268-3768.
9. P. Castagliola, G. Celano, S. Fichera, 2006, "Evaluation of the statistical performance of a Variable Sampling Interval R EWMA control chart", Quality Technology and Quantitative Management, 3(3), pp.307-323, ISSN: 1684-3703.
10. P. Castagliola, G. Celano, S. Fichera, F. Giuffrida, 2007, "A Variable Sampling Interval S<sup>2</sup>-EWMA control chart for monitoring the process variance", International Journal of Technology Management, 37(1-2), pp. 125-246, Inderscience Publishers, ISSN: 0267-5730.
11. G. Celano, P. Castagliola, S. Fichera, 2007, "Economic-statistical design of a S EWMA control chart for monitoring process variability", Journal of Quality in Maintenance Engineering, 13(3) pp. 304-320, Emerald, ISSN: 1355-2511.
12. G. Celano, A. Costa, S. Fichera, 2008, "Scheduling of unrelated parallel manufacturing cells with limited human resources", International Journal of Production Research, 46(2), pp. 405-427, Taylor and Francis, ISSN: 0020-7543.

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

13. G. Celano, P. Castagliola, S. Fichera, V. Nunnari, 2008, "A variable sample size S2 EWMA control chart for monitoring the process variance", International Journal of Reliability, Quality and Safety Engineering, 15(3), pp. 181-201, WorldSciNet, ISSN: 0218-5393.
14. G. Celano, A. Costa, S. Fichera, E. Trovato, 2008, "One-sided bayesian S2 control charts for the control of process dispersion in finite production runs", International Journal of Reliability, Quality and Safety Engineering, 15(4), pp. 305-327, WorldSciNet, ISSN: 0218-5393.
15. G. Celano, 2009, "Robust design of adaptive control charts for manual manufacturing / inspection workstations", Journal of Applied Statistics, 36(2), pp. 181-203, Taylor and Francis, ISSN: 0266-4763.
16. P. Castagliola, G. Celano, G. Chen, 2009, "The exact run length distribution and design of the S2 chart when the in-control variance is estimated", International Journal of Reliability, Quality and Safety Engineering, 16(1), pp. 23-38, WorldSciNet, ISSN: 0218-5393.
17. G. Guglielmino, G. Celano, A. Costa, S. Fichera, 2009, "Modelling a radiology department service using a VDL integrated approach", Journal of Health Organization and Management, Emerald, 23(4), pp. 376-395, ISSN: 1477-7266.
18. G. Celano, A. Costa, S. Fichera, E. Trovato, 2009, "An efficient genetic-dynamic programming procedure to design Bayesian control charts", International Journal of Quality & Reliability Management, 26(8), pp. 831-848, Emerald, ISSN: 0265-671X.
19. G. Celano, P. Castagliola, S. Fichera, 2009, "A new CUSUM-S2 control chart for monitoring the process variance", Journal of Quality in Maintenance Engineering, Emerald, 15(4), pp. 344-357, ISSN: 1355-2511.
20. G. Celano, 2010, "On the constrained economic-statistical design of control charts by the inspection workstation configuration", International Journal of Quality Engineering and Technology, 1(3), pp. 231-252, Inderscience, ISSN : 1757-2177
21. P. Castagliola, G. Celano, S. Fichera, 2010, "A Johnson's type transformation EWMA S2 control chart", International Journal of Quality Engineering and Technology, 1(3), 253-275, Inderscience, ISSN : 1757-2177
22. G. Celano, A. Costa, S. Fichera, 2010, "Constrained scheduling of the inspection activities on semiconductor wafers grouped in families with sequence-dependent set-up times", International Journal of Advanced Manufacturing Technology, 46(5-8), pp. 695-705, Springer, DOI: 10.1007/s00170-009-2112-x, ISSN: 0268-3768.
23. E. Trovato, P. Castagliola, G. Celano., S. Fichera, 2010, "Economic design of inspection strategies to monitor dispersion in short production runs", Computers and Industrial Engineering, 59(4), pp. 887-897, Elsevier, ISSN: 0360-8352.
24. G. Celano, A. Costa, S. Fichera, E. Trovato, 2010, "A new efficient encoding / decoding procedure for the design of a supply chain network with genetic

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

- algorithms”, Computers and Industrial Engineering, 59(4), pp. 986-999, Elsevier, ISSN: 0360-8352.
25. G. Celano, A. Costa, S. Fichera, 2011 “Optimization of multi-pass turning economies through a hybrid particle swarm optimization technique”, International Journal of Advanced Manufacturing Technology, 53(5-8), pp. 421-433, Springer, ISSN: 0268-3768.
26. P. Castagliola, G. Celano., A. Costa, S. Fichera, 2011, “Constrained economic design of one-sided logarithmic transformed S control charts for random process shifts”, International Journal of Quality and Reliability Management, 28(3), pp. 298-316, Emerald, ISSN: 0265-671X
27. P. Castagliola, G. Celano, S. Fichera, E. Trovato, 2011, “Shewhart and EWMA  $t$  control charts for short production runs”, Quality and Reliability Engineering International, 27(3), pp. 313-326, DOI: 10.1002/qre.1121, Wiley, ISSN: 0748-8017.
28. G. Celano, 2011, “On the constrained economic design of control charts: a literature review”, Produção, invited paper, 21(2), pp. 223-234, Brazilian Association of Production Engineering (ABEPRO), ISSN: 0103-6513
29. G. Celano, A.F.B. Costa, M.S. De Magalhaes, S. Fichera, 2011, “A stochastic shift model for economically designed charts constrained by the process stage configuration”, International Journal of Production Economics, 132(2), pp. 315-325, Elsevier, ISSN: 0925-5273.
30. P. Castagliola, G. Celano, S. Psarakis, 2011, “Monitoring the coefficient of variation using EWMA charts”, Journal of Quality Technology, 43(3), pp. 249-265, American Society for Quality, ISSN: 0022-4065
31. P. Castagliola, G. Celano., A. Costa, S. Fichera, 2011, “On the design of Shewhart control charts monitoring dispersion in processes with random shifts”, Journal of Operations and Logistics, 4(3), pp. 39-55, ISSN: 2031-9746
32. G. Celano, P. Castagliola, S. Fichera, E. Trovato, 2012, “The economic performance of the Shewhart  $t$  chart”, Quality and Reliability Engineering International, 28(2), pp. 159-180, Wiley, ISSN: 0748-8017.
33. G. Celano, A. Costa, S. Fichera, G. Tringali, 2012, “Linking Six Sigma to simulation: a new roadmap to improve the quality of patient care”, International Journal of Health Care Quality Assurance, 25(4), pp. 254-273, Emerald, ISSN: 0952-6862
34. G. Celano, P. Castagliola, E. Trovato, 2012, “The economic performance of a CUSUM  $t$  chart for monitoring short production runs”, Quality Technology and Quantitative Management, 9(4), pp. 329-354, ISSN: 1684-3703.
35. P. Castagliola, G. Celano, S. Fichera, 2013, “Comparison of the  $\bar{X}$  chart and the  $t$  chart when the parameters are estimated”, 10(1), pp. 1-16, Quality Technology and Quantitative Management, ISSN: 1684-3703.

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

36. P. Castagliola, A. Achouri, H. Taleb, G. Celano, S. Psarakis 2013, "Monitoring the coefficient of variation using control charts with run rules", 10(1), pp. 75-94, Quality Technology and Quantitative Management, ISSN: 1684-3703.
37. G. Celano, P. Castagliola, S. Fichera, G. Nenes, 2013, "Performance of  $t$  control charts in short runs with unknown shift sizes", Computers and Industrial Engineering, Elsevier, 64(1), 56-68, ISSN: 0360-8352.
38. P. Castagliola, G. Celano, S. Fichera, G. Nenes, 2013, "The variable sample size  $t$  control chart for monitoring short production runs", International Journal of Advanced Manufacturing Technology, Springer, 66(9-12), pp. 1353-1366, ISSN: 0268-3768.
39. P. Castagliola, A. Achouri, H. Taleb, G. Celano, S. Psarakis 2013, "Monitoring the coefficient of variation using a variable sampling interval control chart", Quality and Reliability Engineering International, 29, pp. 1135-1149, DOI: 10.1002/qre.1465, Wiley, ISSN: 0748-8017.
40. G. Nenes, P. Castagliola, G. Celano, S. Panagiotidou, 2014, "The Variable Sampling Interval control chart for short production runs", IIE Transactions, 46(10), pp. 1050-1065, Taylor and Francis, ISSN: 0740-817X
41. B.C. Franco, G. Celano, P. Castagliola, A.F.B. Costa, 2014, "Economic Design of Shewhart control charts for monitoring autocorrelated data with skip sampling strategies", International Journal of Production Economics, 151, pp. 121-130, Elsevier, ISSN: 0925-5273.
42. B.C. Franco, G. Celano, P. Castagliola, A.F.B. Costa, 2014, "A new sampling strategy to reduce the effect of autocorrelation on a control chart", Journal of Applied Statistics, 41(7), pp. 1408-1421, Taylor and Francis, ISSN: 0266-4763
43. A. Faraz, G. Celano, E. Saniga, C. Heuchenne, S. Fichera, 2014, "The variable parameters  $T^2$  control chart with run rules", Statistical Papers, 55(4), pp. 933-950, Springer-Verlag, ISSN: 0932-5026.
44. G. Celano, P. Castagliola, A. Faraz, S. Fichera, 2014, "Statistical performance of a control chart for individual observations monitoring the ratio of two normal variables", Quality and Reliability Engineering International, 30(8), pp. 1361-1377, Wiley, ISSN: 0748-8017.
45. G. Celano, A. Faraz, E. Saniga, 2014, "Control Charts monitoring product's loss to society", Quality and Reliability Engineering International, pp. 1393-1407, Wiley, ISSN: 0748-8017.
46. G. Nenes, K. Tasias, G. Celano, 2015, "A general model for the economic-statistical design of adaptive control charts for processes subject to multiple assignable causes", International Journal of Production Research, 53(7), pp. 2146-2164, DOI 10.1080/00207543.2014.974850, Taylor and Francis, ISSN: 0020-7543.
47. B.C. Franco, G. Celano, P. Castagliola, A.F.B. Costa, M. Machado, 2014, "A new sampling strategy for the Shewhart control chart monitoring a process with wandering

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

- mean”, International Journal of Production Research, 53(14), pp. 4231-4238, Taylor and Francis, ISSN: 0020-7543.
48. A. Amdouni, P. Castagliola, H. Taleb, G. Celano, 2015, “One-sided shewhart-type charts for monitoring the coefficient of variation in short production runs”, Quality Technology and Quantitative Management, 12(1), pp. 53-67, ISSN: 1684-3703.
  49. P. Castagliola, A. Achouri, H. Taleb, G. Celano, S. Psarakis, 2015, “Monitoring the coefficient of variation using a variable sample size control chart”, International Journal of Advanced Manufacturing Technology, 80(9-12), pp.1561-1576, Springer, ISSN: 0268-3768.
  50. P. Castagliola, A. Achouri, H. Taleb, G. Celano, 2015, “Monitoring the coefficient of variation using a variable sample size control chart in short production runs”, in press, International Journal of Advanced Manufacturing Technology, 81(1-4), pp. 1-14, Springer, ISSN: 0268-3768.
  51. G. Celano, P. Castagliola, 2016, “Design of a *Phase II* control chart for monitoring the ratio of two normal variables”, Quality and Reliability Engineering International, 32, pp. 291-308, Wiley, ISSN: 0748-8017.
  52. G. Celano, P. Castagliola, 2016, “A synthetic control chart for monitoring the ratio of two normal variables”, Quality and Reliability Engineering International, 32, pp. 681-696, Wiley, ISSN: 0748-8017.
  53. K.P. Tran, P. Castagliola, G. Celano, 2016, “Monitoring the Ratio of two Normal Variables using EWMA Type Control Charts”, Quality and Reliability Engineering International, 32, pp. 1853-1869, Wiley, ISSN: 0748-8017, DOI: 10.1002/qre.1918.
  54. K.P. Tran, P. Castagliola, G. Celano, 2016, “Monitoring the Ratio of two Normal Variables using Run Rules Type Control Charts”, International Journal of Production Research, International Journal of Production Research, 54(6), pp. 1670-1688, Taylor and Francis, ISSN: 0020-7543.
  55. G. Celano, P. Castagliola, S. Chakraborti, G. Nenes, 2016, “The performance of the Shewhart sign control chart for finite horizon processes”, 84(5), pp. 1497-1512, International Journal of Advanced Manufacturing Technology, Springer, ISSN: 0268-3768, DOI: 10.1007/s00170-015-7745-3.
  56. G. Celano, P. Castagliola, S. Chakraborti, G. Nenes, 2016, “On the Implementation of the Shewhart Sign Control Chart for Low-volume Production, International Journal of Production Research, 54(19), pp.5886-5900, Taylor and Francis, ISSN: 0020-7543
  57. A. Amdouni, P. Castagliola, H. Taleb, G. Celano, 2016, “One-Sided Run Rules Control Charts for Monitoring the Coefficient of Variation in Short Production Runs”, European Journal of Industrial Engineering, Inderscience Publishers, 10(5), pp.639-663, ISSN: 1751-5254.
  58. G. Celano, P. Castagliola, S. Chakraborti, 2016, “Joint Shewhart control charts for location and scale monitoring in finite horizon processes”, Computers and Industrial Engineering, 101, pp.427-439, Elsevier, ISSN: 0360-8352.

**Scientific publications of Prof. Giovanni Celano, PhD. – International Journals**  
Updated to June 2018

59. K.P. Tran, P. Castagliola, G. Celano, 2016, “The Performance of the Shewhart-RZ Control Chart in the Presence of Measurement Error”, International Journal of Production Research, 54(24), pp. 7504-7522, Taylor and Francis, ISSN: 0020-7543.
60. K.P. Tran, P. Castagliola, G. Celano, 2016, “Monitoring the ratio of population means of a bivariate normal distribution using CUSUM type control charts”, Statistical Papers, in press, Springer, ISSN: 0932-5026.
61. G. Nenes, P. Castagliola, G. Celano, 2017, “Economic and Statistical Design of Vp Control Charts for Finite-Horizon Processes”, IIE Transactions, 49(1), pp. 110-125, Taylor and Francis, ISSN: 0740-817X.
62. A. Amdouni, P. Castagliola, P., H. Taleb, G. Celano, 2017, “A Variable Sampling Interval Shewhart Control Chart for Monitoring the Coefficient of Variation in Short Production Runs”, in press, International Journal of Production Research, 55(19), pp. 5521-5536, Taylor and Francis Ltd, Abingdon OX14 4RN, Oxon, England, ISSN: 0020-7543.
63. K.P. Tran, P. Castagliola, G. Celano, M.B.C. Khoo, 2018, “Monitoring compositional data using a multivariate exponentially weighted moving average scheme”, 34(3), pp. 391-402, Quality and Reliability Engineering International, Wiley, ISSN: 0748-8017, DOI: 10.1002/qre.2260.
64. P. Castagliola, K.P. Tran, G. Celano, A. Rakitzis, P. Maravelakis, 2018, “An EWMA-type sign chart with exact run length properties”, Journal of Quality Technology, in press, American Society for Quality Control, Milwaukee, WI, USA, ISSN: 0022-4065.
65. J.A. Garza-Venegas, V.G. Tercero, L.L. Ho, P. Castagliola, and G. Celano, 2018, Effect of autocorrelation estimators on the performance of the Xbar control chart, in press, Journal of Statistical Computation and Simulation, Taylor and Francis, Oxon, United Kingdom, ISSN: 0094-9655, DOI: 10.1080/00949655.2018.1479752.
66. G. Celano and P. Castagliola, 2018, “The Shewhart F control chart for monitoring processes with finite number of inspections”, in press, Quality and Reliability Engineering International, Wiley, ISSN: 0748-8017, DOI: 10.1002/qre.2355.
67. G. Celano and P. Castagliola, 2018, “An EWMA sign control chart with varying control limits for finite horizon processes”, in press, Quality and Reliability Engineering International, Wiley, ISSN: 0748-8017,