

Scientific publications of Dr. Giovanni Celano, PhD. – International Conferences
Updated to April 2016

- [1] G. Celano and S. Fichera, 1999, "Statistical economic design of a x control chart", 5th Intern. Conf. on Advanced Manufacturing Systems and Technology (AMST00), pp. 875-882, Udine (Italy), June 3-4, pubblicato su *Advanced Manufacturing Systems and Technology*, CISM Courses and Lectures No 406, Springer Verlag, New York, ISBN: 3-211-83148-7.
- [2] G. Celano and S. Fichera, 1999, "Control chart design with GA based on Pareto non dominated solutions", Proceedings of the 2nd World Manufacturing Congress, Durham (United Kingdom), September 27-30, pp.771-776, ISCS Academic Press, Canada.
- [3] G. Celano and S. Fichera, 2000, "A multiobjective algorithm for flexible mixed model assembly lines", Proceedings of the International CIRP Seminar on Design with Manufacturing: Intelligent Design Concepts Methods and Algorithms, Haifa (Israel), May 16-18, pp. 265 – 270, ISBN: 0.
- [4] G. Celano, S. Fichera, L. Fratini, E. Lo Valvo and F. Micari, 2000, "Application of artificial intelligent tools to the design of an industrial roll forming process", Proceedings of the 2nd CIRP International Seminar on Intelligence Computation in Manufacturing Engineering, Capri (Italy), June 21-23, pp. 309 – 314, ISBN: 88-87030-21-9.
- [5] G. Celano, S. Fichera and E. Lo Valvo, 2000, "Optimization of cutting parameters in multi pass turning operations for continuous forms", Proceedings of the 2nd CIRP International Seminar on Intelligence Computation in Manufacturing Engineering, Capri (Italy) June 21-23, pp. 417 – 422, ISBN: 88-87030-21-9.
- [6] G. Capobianco, G. Celano and S. Fichera, 2000, "Economic design of control charts with Markov chains in a piston manufacturing line", Proceedings of the 2nd CIRP International Seminar on Intelligence Computation in Manufacturing Engineering, Capri (Italy), June 21-23, pp. 517 – 522, ISBN: 88-87030-21-9.
- [7] G. Celano and S. Fichera, 2000, "Group scheduling in a flexible manufacturing system using an evolutionary algorithm", Proceedings of the CIRP 3rd World Congress on Intelligent Manufacturing Processes & Systems, Cambridge (USA), June 27-30, pp. 309 – 315, ISBN: 0.
- [8] G. Celano, A. Costa, S. Fichera and G. Perrone, 2000, "Fuzzy scheduling of a flexible assembly line through an evolutionary algorithm", IEEE International Conference on Systems, Man, and Cybernetics, Nashville (U.S.A.), October 8-11, Vol. 1 pp.328-333, DOI: 10.1109/ICSMC.2000.885012.
- [9] G. Celano, A. Costa, S. Fichera, L. Fratini, and F. Micari, 2001, "On the optimisation of multi-pass cold drawing processes", Proceedings of the International CIRP Design Seminar, Stockholm (Sweden), June 6-8, pp.271-276, ISBN: 0.
- [10] G. Celano, S. Fichera, L. Fratini, and F. Micari, 2001, "Design optimisation of an industrial roll forming process through an heuristic algorithm", Proceedings of the 7th International Conference on Numerical Methods in Industrial Forming Processes, Toyohashi (Japan), June 18-20, pp.589-594, ISBN: 90 2651 822 6.

Scientific publications of Dr. Giovanni Celano, PhD. – International Conferences
Updated to April 2016

- [11] G. Celano, A. Costa, and S. Fichera, 2001, "A modified simulated annealing algorithm for statistical process control", Proceedings of the Progress in Innovative Manufacturing Engineering (PRIME) International Conference, Sestri Levante (GE), (Italy), June 20-22, pp. 317-322, ISBN: 88-900559-0-1.
- [12] G. Celano, R. Di Lorenzo, S. Fichera and L. Filice, 2001, "Development of a design procedure for cold extrusion", Proceedings of the CIRP 2nd International Conference and Exhibition on Design and Production of Dies and Molds, Kusadasi (Turkey), June 21-23, CD-ROM, ISBN: 975-429-167-5.
- [13] G. Celano, A. Fichera, S. Fichera, and A. Pagano, 2001, "Statistical Process Control for a cogeneration power plant", Proceedings of the VI International Conference on Technologies and Combustion for a Clean Environment, Oporto (Portugal), July 9-12, pp.1203-1207, ISBN: 0.
- [14] G. Celano, A. Costa, A. Fichera, S. Fichera, and A. Pagano, 2001, "Application of Statistical Process Control to energy plants", Proceedings of the 16th International Conference on Production Research, Praga (Czech Republic), July 29 – August 3, CD-ROM, paper C3.2, ISBN: 80-0201438-3.
- [15] S. Campisi, G. Celano, A. Costa, and S. Fichera, 2001, "Economic design of a X adaptive control chart with run rules", 1 Proceedings of the 16th International Conference on Production Research, Praga (Czech Republic), July 29 – August 3, CD-ROM, paper C3.4, ISBN: 80-0201438-3.
- [16] G. Celano, A. Costa, and S. Fichera, 2001, "Heuristic algorithms for the optimisation of mixed model assembly lines", Proceedings of the 16th International Conference on Production Research, Praga (Czech Republic), July 29 – August 3, CD-ROM, paper I6.3, ISBN: 80-0201438-3.
- [17] G. Celano, A. Costa, S. Fichera, 2001, "Fuzzy scheduling of an flexible assembly line through evolutionary algorithms", Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics, Tucson (U.S.A.), October 7-10, Vol. 4, pp.2251-2256, DOI: 10.1109/ICSMC.2001.972891.
- [18] G. Celano, A. Costa, S. Fichera and L. Fratini, 2002, "Design of the tube roll forming process through an heuristic algorithm", 6th Intern. Conf. on Advanced Manufacturing Systems and Technology (AMST02), June 20-21, pubblicato su *Advanced Manufacturing Systems and Technology*, CISM Courses and Lectures No 437, pp. 409-416, Springer Verlag, New York, ISBN: 3-211-83689-6.
- [19] G. Celano, A. Costa, S. Fichera, 2002, "Application of statistical process control to continuous processes", 6th Intern. Conf. on Advanced Manufacturing Systems and Technology (AMST02), June 20-21, pubblicato su *Advanced Manufacturing Systems and Technology*, CISM Courses and Lectures No 437, pp. 531-538, Springer Verlag, New York, ISBN: 3-211-83689-6.
- [20] G. Celano, A. Costa, S. Fichera, 2002, "An integrated tool for balancing and sequencing of assembly lines", Proceedings of the 3rd CIRP International Seminar on

Scientific publications of Dr. Giovanni Celano, PhD. – International Conferences
Updated to April 2016

Intelligence Computation in Manufacturing Engineering, Ischia (Italy), July 3-5, pp. 627 – 632, ISBN: 88-87030-44-8.

- [21] G. Celano, A. Costa, S. Fichera, 2002, “An integrated optimization tool for flow shop scheduling”, Proceedings of the 12th International Conference on Flexible Automation & Intelligent Manufacturing (FAIM 2002) Dresda (Germany), July 15-17, pp. 836-845, Oldenbourg Industrieverlag (Munich), ISBN 3-486-27036-2.
- [22] G. Celano, A. Costa, S. Fichera, 2002, “Constrained scheduling of jobs with different due dates in a flowshop”, Proceedings of the IEEE International Conference on Systems, Man, and Cybernetics, Hammamet (Tunisia), October 6-9, Vol. 7 CD-ROM, ISBN: 0-7803-7437-1.
- [23] G. Celano, A. Costa, G. Di Salvo, S. Fichera, 2003, “An intelligent tool for the selection of parameters in multi pass drilling operations”, Proceedings of the 6th ESAFORM Conference on Material Forming, Salerno, (Italy), April 28-30, pp. 591-594, ISBN 88-7676-211-6.
- [24] G. Celano, A. Costa, S. Fichera, 2003, “A comparative analysis of sequencing heuristics for solving the Toyota Goal Chasing problem”, Proceedings of the 13th International Conference on Flexible Automation & Intelligent Manufacturing (FAIM 2003), Tampa, (U.S.A.), June 9-11, pp. 307-317, Kinco's Inc. Editore.
- [25] G. Celano, A. Costa, S. Fichera, 2003, “Scheduling of unrelated parallel manufacturing cells with human resources”, Proceedings of the 2nd Group Technology/Cellular Manufacturing World Symposium, Columbus (U.S.A.), July 28-30, pp. 177-182, ISBN: 0.
- [26] G. Celano, A. Costa, S. Fichera, G. Guglielmino, 2004, “Information based manufacturing: an innovative tool for technical information sharing”, Proceedings of the 13th IPSERA Conference, Catania (Italy), April 4-7, pp. p47-p54, ISBN: 0.
- [27] G. Celano, A. Costa, S. Fichera, 2004, “Optimization procedures for the economic design of one sided X Bayesian control charts, Proceedings of the 5th International Conference on Quality, Reliability and Maintainance (QRM), Oxford (United Kingdom), April 1-2, Professional Engineering Publishing Limited, London (United Kingdom), pp. 205-208, ISBN: 1-86058-440-3.
- [28] G. Celano, A. Costa, S. Fichera, G. Guglielmino, 2004, “Workload balancing of a manual assembly line: a case study”, Proceedings of the 4th CIRP International Seminar on Intelligence Computation in Manufacturing Engineering, Sorrento (Italy), June 30– July 2, pp. 325-330, ISBN: 88-87030-79-0.
- [29] P. Castagliola, G. Celano, S. Fichera, D. Pulvirenti, 2005, “A Variable Sampling Interval EWMA Control Chart for Monitoring the Process Range”, Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2005, Marrakech (Morocco), May 16-19, CD-ROM, ISBN: 2-9600532-0-6.
- [30] G. Celano, A. Costa, S. Fichera, M.G. Guglielmino, 2005, “On the simulation of workforce activities in a manufacturing process: an object-oriented approach”, Proceedings of the 15th International Conference on Flexible Automation and

Scientific publications of Dr. Giovanni Celano, PhD. – International Conferences
Updated to April 2016

Intelligent Manufacturing (FAIM 2005), Bilbao (Spain), July 18-20, pp.254-261, ISBN: 84-7485-990-5.

- [31] G. Celano, S. Fichera, M.G. Guglielmino, M.C. Trefiletti, 2006, "Activity simulation within a radiology department with limited nurse resources", 12th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2006), St Etienne, (France), May 17-19, pubblicato in *Information Control Problems In Manufacturing 2006*, Vol.3 pp. 669-674, Elsevier, ISBN: 978-0-08-044654-7.
- [32] Celano, G., Fichera, S., Trovato, E., 2006, "Economic design of two sided Xbar control charts for finite production runs: guidelines for the selection of adaptive policies", Proceedings of the 16th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2006), Limerick, (Ireland), June 26-28, Vol. 1 pp. 277-284, ISBN 1874653933.
- [33] Castagliola, P., Celano, G., Fichera, S., 2006, "Economic statistical design of a logarithmic transformed S^2 EWMA chart", Proceedings of the 12th ISSAT International Conference on Reliability and Quality in Design, Chicago, Illinois (USA), August 3-5, pp. 205-209, ISBN: 0-9763486-1-6.
- [34] Castagliola, P., Celano, G., Fichera, S., 2007, "A new CUSUM S^2 control chart for monitoring the process variance", Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2007, Pechino (China), May 30-June 2, CD-ROM, ISBN: 978-7-89486-439-0, Tsinghua University Press, Pechino (China)
- [35] Celano, G., Fichera, S., Trovato, E., 2007, "Economic design of one sided Xbar control charts for finite production runs: guidelines for the selection of adaptive policies", Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2007, Pechino (China), May 30-June 2, CD-ROM, ISBN: 978-7-89486-439-0, Tsinghua University Press, Pechino (China)
- [36] G. Celano, I. Messineo, S. Fichera, 2008, "Using simulation to test the staffing reconfiguration in a speech therapy ambulatory care", In: Operations Research for Health Care Delivery Engineering. Proc. of the 33rd Intern. Conference on Operational Research Applied to Health Services. International Conference on Operational Research Applied to Health Services ORAHS 2007. St Etienne (France), July 15-20, 2007, pp. 251-263, ISBN/ISSN: 978-2-86272-507-9, Publications de L'Université de St. Etienne (FRANCE).
- [37] G. Celano, A. Costa, S. Fichera, 2008, "Robust economic design of a Variable Sampling Interval Shewhart control chart constrained by the labour resources", to appear in the Proceedings of the 18th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2008), Skovde, (Sweden), June 30 – July 2, Vol. 1, pp. 276-283, ISBN: 978-91-633-2757-5.
- [38] G. Celano, A. Costa, S. Fichera, E. Trovato, 2008, "A new encoding for solving the multi-stage supply chain network problem through genetic algorithms", to appear in the Proceedings of the 18th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2008), Skovde, (Sweden), June 30 – July 2, Vol. 1, pp. 566-573, ISBN: 978-91-633-2757-5.

- [39] G. Celano, A. Costa, S. Fichera, B. Santangelo, 2008, "Pallet configuration for approaching mapping requirements on devices", CD-ROM of the Proceedings of the 6th CIRP International Conference on Intelligent Computation in Manufacturing Engineering, Napoli (Italy), July 23-25.
- [40] P. Castagliola, G. Celano, G. Chen, 2008, "Some results concerning the S2 chart when the in-control variance is estimated", 14th ISSAT International Conference on Reliability and Quality in Design, pages 105-108, ISBN:978-0-9763486-4-1, Orlando, Florida, USA, August 7-9.
- [41] [P. Castagliola, G. Celano, S. Fichera, L. Pavone, 2009, "A S2 EWMA control chart based on a Johnson's type transformation", Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2009, Montreal (Canada), May 12-15, CD-ROM, ISBN: 978-2-9600532-2-7.
- [42] [P. Castagliola, G. Celano, A. Costa, S. Fichera, 2009, "On the design of Shewhart control charts monitoring dispersion in processes with random shifts", Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2009, Montreal (Canada), May 12-15, CD-ROM, ISBN: 978-2-9600532-2-7.
- [43] G. Celano, A.F.B. Costa, M.S. De Magalhaes, S. Fichera, 2009, "Constrained economic design of a SPC procedure in a manual multi-task workstation", Proceedings of the International Conference on Industrial Engineering and Systems Management IESM 2009, Montreal (Canada), May 12-15, CD-ROM, ISBN: 978-2-9600532-2-7.
- [44] P. Castagliola, G. Celano, S. Psarakis, 2011, "Preliminary results concerning EWMA charts for monitoring the coefficient of variation", CD ROM of the Proceedings of the Congrès International Pluridisciplinaire en Qualité et Sureté de Fonctionnement, Qualita 2011, Angers (France), March, 22-25.
- [45] G. Celano, A. Costa, S. Fichera, 2011, "Flow shop group scheduling with limited buffer capacity and different workforce", Proceedings of the 8th International Conference on Informatics in Control, Automation and Robotics, Noordwijkerhout, (The Netherlands), July, 29-31, pp. 486-491, DOI: 10.5220/0003648704860491.
- [46] G. Celano, A. Costa, S. Fichera, 2011, "Makespan minimization in a flowshop sequence dependent group scheduling and worker assignment problem", Proceedings of the 41st International Conference on Computers and Industrial Engineering, Los Angeles, (USA), October, 23-25, pp. 254-259.
- [47] F. Cappadonna, G. Celano, A. Costa, S. Fichera, 2011, "A new approach for solving hybrid flowshop scheduling problems through evolutionary algorithms", Proceedings of the 41st International Conference on Computers and Industrial Engineering, Los Angeles, (USA), October, 23-25, pp. 169-174.
- [48] F. Cappadonna, G. Celano, A. Costa, S. Fichera, 2012, "Minimizing the Total Weighted Completion Time on a Single Machine with Release Dates and Workforce having different skill levels, Proceedings of the 22nd International Conference on

Scientific publications of Dr. Giovanni Celano, PhD. – International Conferences
Updated to April 2016

Flexible Automation and Intelligent Manufacturing. Helsinki, (Finland), CD-ROM,
ISBN: 978-952-15-2784-5

- [49] A. Amdouni, P. Castagliola, H. Taleb, G. Celano, 2014, "Monitoring the coefficient of variation with run rules in short production runs", Proceedings of the 3rd Stochastic Modeling Techniques and Data Analysis International Conference, Lisbon, (Portugal), June, 11-14.
- [50] K.P. Tran, P. Castagliola, G. Celano, 2016, The efficiency of the 4-out-of-5 runs Rules Scheme for monitoring the ratio of population means of a bivariate normal distribution, Proceedings of 22th ISSAT International Conference On Reliability And Quality In Design, Los Angeles (USA), August, 4-6.