

Personal data:

Name: Bianca Maria COLOSIMO
Date of Birth: 04/10/1971
Gender: female
Residence: Milano (Italy)
Nationality: Italian

General information

Bianca Maria Colosimo is Full Professor in the Department of Mechanical Engineering of Politecnico di Milano (Italy), where she received her M.S. degree (cum Laude) in 1996 and her PhD degree in 2000, both in Industrial Engineering. She became part of the Faculty of Politecnico di Milano as Assistant Professor (1999-2003), Associate Professor (2003- 2014) and then as Full Professor (since november 2014) in Manufacturing and Production Systems (Scientific disciplinary sector: 09/B1 - ING-IND/16).

Politecnico di Milano is the first engineering school in Italy, 9th in Europe and ranked 28th worldwide (QS World University Ranking 2013 – Engineering and Technology).

Her research interest is mainly in the area of **Quality Engineering** (i.e. statistical process monitoring, control and optimization), with special attention to discrete part **manufacturing**. Minor research activities concern machining, metrology and inspection and manufacturing systems configuration.

On these topics, she is author of about 100 contributions, half of which have been published in peer-reviewed international journals and books. She is editor of two peer-reviewed books with international authors and publishers.

In 2001, she spent a post-PhD visiting period at the Engineering Statistics Laboratory of the Industrial and Manufacturing Engineering Department, Pennsylvania State University (PSU), ranked 6th in Industrial/Manufacturing according to US News¹.

Since 2001, she is spending several research periods at PSU. She is also conducting research projects in cooperation with other colleagues in Italy and abroad, prof. Pacella (Università del Salento), prof. Senin (Università degli Studi di Perugia), proff. Franceschini and Galetto (Politecnico di Torino), prof. Ester Gutierrez Moya (University of Seville), among the others.

She has been leading and contributing to different national and international research projects, mainly in the area of profile/surface data modeling and monitoring and signal data fusion for in-line monitoring of manufacturing processes.

She is member of the Editorial Board of *Journal of Quality Technology* (since 2006) and she is serving as referee for several other scientific international journals (*Technometrics*, *International Journal of Production Research*, *Journal of Applied Statistics*, *Quality & Reliability International*, *Computers & Industrial Engineering*, *Measurement Science and Technology*, *Computational Statistics* among the others).

¹ <http://colleges.usnews.rankingsandreviews.com/best-colleges/rankings/engineering-doctorate-industrial-manufacturing>

Current research and future plans²:

Starting from the PhD thesis, her research activities has been mainly focusing on **quality engineering problems**, with the aim of bridging the gap between research questions arising in manufacturing and possible solutions offered by methods and tools developed in industrial statistics.

A first stream of research has been devoted to apply Bayesian statistics to quality problems (quality monitoring and process adjustment) [2], [8]-[10], [22], [35], [36], [38], [40]-[42]. As a matter of fact, the Bayesian framework provides a way to include *a priori* information (which is very common in manufacturing engineering) to enhance solutions to quality engineering problems.

In the last years, her research activity has been mainly focusing on overcoming traditional six-sigma tools in dealing with **profile and surface monitoring** and **multisensor signal data** from highly sensorized machining processes.

As a matter of fact, two main paradigm shifts are currently characterizing the manufacturing scenarios. The first concerns *quality of products*, where simple tolerances on dimensions are more and more often substituted or coupled with **geometric tolerances on regular profiles and surfaces and free-form shapes**. This ingoing trend is also favored by the current shift in dimensional metrology, where noncontact systems are replacing traditional contact systems [1].

In this scenario, new tools for quality monitoring and optimization have been proposed [3]-[7], [11], [11], [18], [20], [23]-[27], [30], [33]. Future research activities will concern quality monitoring of engineered surfaces (where the surface texture is designed in order to enhance the functional properties), Computer Tomography (CT) product data, multisensor data fusion, quality monitoring of 3D printed surfaces.

A second important paradigm shift characterizing current manufacturing scenarios is the trend to move from *product to process data* for in-line quality monitoring, control and optimization. Due to the advent of a new generation of reliable, accurate and miniaturized sensors and the availability of high computational power at low costs, **highly sensorized machining processes** are becoming more and more common in discrete part manufacturing. It has to be outlined that even though the use of in-line sensors is quite common in chemical industrial processes, the advent of sensors in discrete part manufacturing poses a set of completely new challenges. In fact, since transfer functions of manufacturing processes are very complex and highly non-linear, traditional approaches for chemical processes provide unsatisfactory results. Despite of these difficulties, opportunities are almost as interesting as the challenges to be faced. As a matter of fact, moving from product to process monitoring via sensorized machines, allows one to adopt quality monitoring even when small lots or one-of-a-kind products are produced. This scenario is particularly interesting for all high-value-added product, which are customized and expensive. As a second stream of research, she is currently focusing on proposing new approaches for quality monitoring of multisensorized machining processes [16][17], [19], [53], [21], [28]. Different activities are foreseen in this research direction: self-starting approaches – which do not require a long transient before applying

² Only a set of significant publications are mentioned.

control charting; nonparametric multivariate methods – which do not require any specific assumptions on the target distribution; multisensor data fusion, identification of the statistical relationship between product surface data and process signals.

As a summary, her current and future research is aimed at contributing to the development of a new “six-sigma” toolkit to face current and future challenges of zero-defect manufacturing.

Education

- January 2001 - August 2001 – **Visiting Post Ph.D.** at the Engineering Statistics Laboratory of the Department of Industrial and Manufacturing Engineering of the Pennsylvania State University (PSU) – USA.
- January 2001 - **Ph.D. in Manufacturing and Production Systems**
Ph.D. thesis title: “*Bayesian approaches for Statistical Quality Control*”, Politecnico di Milano.
- July 1996 - **M.S. in Management and Industrial Engineering (cum Laude)** - mark: 100/100 e Lode
Thesis title: “*Proposal of an approach for tooling system configuration in Flexible Manufacturing Systems*”, Politecnico di Milano, 1996. – Awarded as the best M.S. thesis in Manufacturing and Production systems by UCIMU (Unione Costruttori Italiani di Macchine Utensili –Italian Association of Manufacturing Systems and Machine tools producers).
- 1989: High School Diploma – Scientific High School (Liceo Scientifico) “L. Siciliani” (Catanzaro, Italy) – mark 60/60.

Academic Position

- Since 2014 **Full Professor** in Manufacturing and Production Systems, Politecnico di Milano.
- Since 2003, **Associate Professor** in Manufacturing and Production Systems, Politecnico di Milano (with tenure since 2006).
- 1999-2003, **Assistant Professor** in Manufacturing and Production Systems, Politecnico di Milano.

AWARDS for SCIENTIFIC ACTIVITY

- 2008, **Top downloaded paper of the year** - B.M. Colosimo, M. Pacella and Q. Semeraro, 2008, *Statistical Process Control for Geometric Specifications: on the Monitoring of Roundness Profiles*, Journal of Quality Technology, vol. 40, No. 1, January 2008, pp. 1-18.
- 2003, **Best Young Researcher** in Manufacturing and Production Systems, AITeM (Associazione Italiana TECnologie Meccaniche – Italian Association of Manufacturing) for the paper “*Service Quality Control using Bayesian Networks*”.
- 1996, **Best M.S. thesis** in Manufacturing and Production systems, UCIMU (Unione Costruttori Italiani di Macchine Utensili –Italian Association of Manufacturing Systems and Machine Tools producers).

Scientific and editorial assignment

- Since 2012 member of the **Editorial Board** of the **PoliMI SpringerBriefs** (<http://www.springer.com/series/11159>).
- Since 2006, Member of the **Editorial Board** of **Journal of Quality Technology** (<http://asq.org/pub/jqt/>)
- Member of the **Scientific Committee of the XI A.I.Te.M.Conference** – management of the editorial board. 9-11 September 2013 – San Benedetto del Tronto (Italy) – she has been managing the double-blinded reviewing processes of about 60 papers.
- Since 2004, acting as **referee** of different international journals: *Journal of Quality Technology*, *Technometrics*, *International Journal of Production Research*, *Journal of Applied Statistics*, *Quality & Reliability International*, *Computers & Industrial Engineering*, *Measurement Science and Technology*, *Computational Statistics* among the others.

Service to the University:

- Since 2013, **Member of the Board** of the **Department of Mechanical Engineering** of Politecnico di Milano (<http://www.mecc.polimi.it/en/about-us/struttura-istituzionale/giunta/>). The Board is a team of 8 Faculty members and two administrative people in charge of managing the Department.
- Since 2012, **Head of the Ph.D. Programme in Mechanical Engineering** of Politecnico di Milano (<http://www.mecc.polimi.it/en/phd/>). The main role is coordinating the PhD Faculty and managing the research activities of about 90 PhD candidates who attending the PhD in Mechanical Engineering.
- 2004-2011, **Head of the Ph.D. Programme in Manufacturing and Production Systems**, Politecnico di Milano (about 15 students overall).

PhD theses supervision:

- Marco Grasso – expected 2015 – “*Statistical quality monitoring via multisensor data analysis*”
- Luca Pagani - expected 2015 - “*Surrogate Modeling for process and product reconstruction*”
- Paolo Cicorella – 2014 – “*Surface Reconstruction and Monitoring via Gaussian processes*” - *Opponent: prof. Albert Weckenmann* (Friedrich-Alexander-Universität Erlangen-Nürnberg) – *final mark: Very good*
- Marcela Meneses – 2012 “*Statistical monitoring of vertical density profiles*”.
- Laura Catellani – 2006 “*Quality in university didactics: identification and diagnosis examination through student rating analysis*”.

Master theses Supervision:

She has been supervising more than 50 master theses in Industrial and Mechanical engineering.

She is currently supervising 6 master theses in quality monitoring of highly-sensorized machining processes, monitoring of bio-inspired textured surfaces, quality monitoring in health-care systems (in cooperation with Hospital San Raffaele – Milano Italy)

Invited lectures and presentations (international audience)

- 2013 Invited presentation to the session entitled: “*A Decade of Profile Monitoring: What’s Next?*” of the **Joint Statistical Meeting 2013**, Montreal (Canada) August 3-8 2013.
- 2013 Invited discussant at the **First Stu Hunter Conference** 12-15 March 2013 - NH Marquette Netherlands (discussant of the paper *Latent structures based-multivariate Statistical process control: A paradigm shift* presented by A. Ferrer).
- 2011, 2012, 2013 Invited presentations at **INFORMS** Annual meetings.
- 2008: **invited research seminar - Universidad Carlos III** (Madrid) to PhD students in Statistics – Title: *Statistical Monitoring of Manufactured Profiles and Surfaces*.
- Invited 2007 - **IXth International Workshop on Intelligent Statistical Quality Control** – three-year meeting of invited attendants. Beijing, September 12-14, 2007

Memberships in scientific organizations

She is senior member of the American Society for Quality (ASQ: www.asq.org), member of the European Network for Business and Industrial Statistics (ENBIS: www.enbis.org), of the Italian Association of Manufacturing (AITEM, www.aitem.org).

RESEARCH PROJECTS:

International projects (funded as a result of competitive evaluation):

- 2012-2015: Task leader in the European project ***MuProD - Innovative proactive Quality Control system for in-process multi-stage defect reduction*** (2012-2015) supported by the European Union's Seventh Framework Programme (FP7/2007-2013) under grant agreement number 285075 – Number of partners: 13 partners – Funding to PoliMI 633,7 KEuro, Funding budget managed by B.M. Colosimo: 189 KEuro – Role: Task leader of Task 3.2 Data knowledge extraction and in-process monitoring; important contribution to Task 3.1 Multisensor multiresolution data fusion modeling. <http://www.muprod.eu>

She contributed to the research activities of two projects funded by the National Science Foundation (NSF), namely:

- ***On-line Profile-to-Profile Process Adjustment for Robust Parameter Design Scenarios***. (\$230,000, 8/15/2008 to 7/31/2011) - Engineering Statistics laboratory - PSU.
- ***Statistical Adjustment for Short Run Manufacturing: Parametric Optimization, Robustness Analysis, and Ensemble Control using Gibbs Sampling***, (\$193,000, June 2002-May 2005) - Engineering Statistics laboratory - PSU
- 1997-2000: Task leader in the European Project ***MOD FLEX PROD: A New Modular System Architecture for Increasing Productivity and Flexibility*** (1997, CT970440), an EU funded research project under the 4th Framework.. Number of partners: 7. Funding for the Department of Mechanical Engineer: 116 KEuro. Role: Task leader.

National research projects (funded as a result of competitive evaluation):

- 2014-2017 Cluster Tecnologici Nazionali - Fabbrica Intelligente - Progetto **High Performance Machining**. Leader of WP3: Data fusion for Flexible manufacturing systems supervision. Funded budget managed by B.M. Colosimo 300 KEuro (approximately)
- 2014-2017 Cluster Tecnologici Nazionali - Fabbrica Intelligente - Progetto **Sustainable Manufacturing** Leader of the Activity 2.2.17 and 2.2.18 : Development and Application of new six-sigma tools for zero-defect manufacturing using contactless measuring systems. Funded budget managed by B.M. Colosimo: 81,9 KEuro
- 2010-2012 **Stima: ST.I.M.A. - Strutture Ibride per la Meccanica e l'Aerospazio** – (funded by Regione Lombardia - “Fondo per la promozione di Accordi Istituzionali”) - Funding budget managed by the research group in Manufacturing (Polimi): 246 KE; budget managed by B.M. Colosimo: 95 KE
- 2011-2013 **Rems: Rete Lombarda di Eccellenza per la Meccanica Strumentale e Laboratorio Esteso** - (funded by Regione Lombardia - “Fondo per la promozione di Accordi Istituzionali”) – contribution to the task on multiresolution metrology data fusion.
- 2010-2012 PRIN 2008: **Large-scale coordinate metrology: study and realization of an innovative system based on a network of distributed and cooperative wireless sensors** - funded by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca). Role: research contribution to the task of multisensor data fusion via Gaussian processes (GPs).
- 2007- 2010 PNR-FIRB 2006 **Technologies for high value-added processes and products** - funded by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca) - Funded budget managed by B.M. Colosimo: 149 KEuro. Role: project leader.
- 2006-2008 PRIN 2005: **Characterization of the multiscale geometry of manufactured surfaces for process control and tolerance analysis** - funded by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca). Funded budget: 131 KEuro. Role: research contribution to develop new approach for quality monitoring of profiles and surfaces.
- COFIN 2001: **Distributed planning of process and products in manufacturing** - funded by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca);
- 2000-2002: COFIN 2000: **Models for production planning in innovative production system** - funded by MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca);
- CNR 1997: **Models and methods for mathematics and Engineer: approximate methods for performance evaluation of manufacturing systems** - funded by CNR (Centro Nazionale Ricerca).

Research projects funded by industrial companies:

- Project leader: **Chatter control on Pomini-Tenova machines for cylindrical grinding of cylinders for hot rolling** funded by POMINI-Tenova (21 months – 91.96 KE – starting December 2011) –

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- Project leader: ***Tapping process Monitoring*** funded by Marposs Artis (36 months – 43.88 KE – starting November 2011) –
- Project leader: ***SPC Security Printing*** (*Parvis systems and services srl*) (three months – 8 KEuros)

Consulting experience:

- 2014: ***Study of the procedure to compute the resolution of linear measurement systems*** (Marposs S.p.A-). Role: project leader.
- 2014: ***Design and quality control of a new venipuncture product*** (Artsana)- Role: contribution to the evaluation of the existing procedures for quality monitoring and control.
- 2005 ***Statistical Process Control – consulting*** to the Production Managers of all the European plants of Stanley Europe. Role: project leader.

TEACHING experience

Teaching activities have been mainly focusing on typical topics of the Scientific disciplinary sector ING-IND16 /Manufacturing technology and Systems (Tecnologie e Sistemi di Lavorazione).

As main teacher, she has been developing and teaching the following courses:

- **Manufacturing and Quality** (10 credits)³ (“Fondamenti di Tecnologia Meccanica e Gestione Industriale della Qualità”) for students in Industrial Engineering and Mathematical Engineering at the bachelor level in academic years: 2004-05, 2005-06, 2006-2007, 2007-2008, 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013.
The course describes fundamental elements of casting, forming, and machining processes (Turning, milling, and hole making). It also provides basic knowledge of quality inspection and statistical process control.
This course is particularly intensive because the number of students in the class is about 200, each year
Despite of the large number of students, students’ evaluation of this course teaching has been ranging from *good to excellent* over the last four years.
- **Industrial Quality Management** (10 credits) (“Gestione Industriale della Qualità”) for students in Management and Industrial Engineering at the master level in the academic years: 2003-2004, 2004-05, 2005-06, 2006-2007, 2007-2008⁴, 2009-2010, 2010-2011, 2011-2012, 2012-2013.
This course presents advanced methods for quality monitoring and control. Traditional six-sigma tools are revised to deal with autocorrelated and multivariate data. A project lab allows students to apply the methods to real industrial data (e.g., surface monitoring and multiple signal data monitoring in the last two years).
The number of students attending this class has been continuously increasing over the last few years (from 23 students in 2011-12 to 49 students in 2012-13 to 79 students in 2013-14). Students’ evaluation of this course teaching has been always *excellent* over the last years.
- **Industrial Quality Management** – *undergraduate level* (5 credits) for students in Logistic and Production Engineering (in a.a. 2000-2001) and students in Management and Industrial Engineering (in a.a. 2001-2002, 2002-2003, 2003-2004) at the bachelor level.
This course focuses on statistical process control, capability analysis and quality acceptance
This course was particularly intensive because the number of students in the class was about 200.

³ 10 credits = 100 hours of lectures, practice and laboratory

⁴ the course was not taught in 2008-2009 because of maternity leave

- **Manufacturing – EN.I.** (“Tecnologia Meccanica - EN.I”) to students of the master level in Chemical Engineering and Mechanical Engineering (stream Energetico-Idrocarburi) - 96 hours. Academic year 1999-2000. Course taught in English.

As assistant teacher (from 1996 to 2003), she has been supporting the design of the class material and teaching the following courses:

- **Manufacturing** (“Tecnologia Meccanica” - vecchio ordinamento) for Industrial Engineering students at the master level: 40 hours of teaching numerical applications of machining theory, casting and forming in academic years 1996-97, 1997-1998, 1998-1999, 2000-2001, 2001-2002, 2002-2003. *This course was particularly intensive because the number of students in the class was about 200.*
- **Industrial Quality Management** (“Gestione Industriale della Qualità” - vecchio ordinamento) for Industrial and Mechanical engineering students at the master level: 40 hours of teaching of statistical process control, Design Of Experiments, Quality Acceptance in academic years 1996-97, 1997-1998, 1998-1999, 1999-2000, 2000-2001, 2001-2002.
- **Continuous improvement of manufacturing technology** (“Miglioramento continuo delle Tecnologie”) for students in Industrial Engineering at the master level (15 hours). 2003-2004.
- **Rapid industrialization** (“Industrializzazione Rapida”) for students in Industrial Engineering at the master level (20 hours). 2003-2004.

Other Teaching Activities

- 2009, 2010, 2011, 2012 and 2013: invited contribution **Markov Chain Monte Carlo in quality control** - PhD course *Monte Carlo simulation methods for the quantitative analysis of stochastic and uncertain systems* – Politecnico di Milano.
- 2007 and 2008 Quality monitoring (in english) in the course **Quality Management** of the International Master of Industrial Management (IMIM) - Politecnico di Milano –Como campus
- 2004 **Quality monitoring** - Master in Product Lifecycle Management – MIP Politecnico di Milano
- 1999 **Quality monitoring and control** – Master of the national research project SPI6

PUBLICATIONS:

International books:

1. B.M. Colosimo and N. Senin (Eds.), 2010, ***GEOMETRIC TOLERANCES: IMPACT ON DESIGN, INSPECTION AND PROCESS MONITORING***, Springer.
2. B.M. Colosimo and E. del Castillo (Eds.), 2006, ***BAYESIAN PROCESS MONITORING, CONTROL AND OPTIMIZATION***, Chapman and Hall/CRC, 2006.

Chapters in books:

3. B.M. Colosimo, M. Pacella, and Q. Semeraro, 2011, *STATISTICAL PROCESS CONTROL FOR GEOMETRIC SPECIFICATIONS*, in Rassoul R. Noorossana, A. Saghei, and A. Amiri (Eds.), ***STATISTICAL ANALYSIS OF PROFILE MONITORING***, 2011, Wiley.
4. B.M. Colosimo, F. Mammarella and S. Petró, 2010, *QUALITY CONTROL OF MANUFACTURED SURFACES*, in Lenz, Hans-Joachim; Wilrich, Peter-Theodor; Schmid, Wolfgang (Eds.) ***FRONTIERS IN STATISTICAL QUALITY CONTROL 9***, 2010, ISBN: 978-3-7908-2379-0, Springer.
5. B.M. Colosimo, M. Pacella, and Q. Semeraro, 2010, *STATISTICAL QUALITY MONITORING OF GEOMETRIC TOLERANCES: THE INDUSTRIAL PRACTICE* in B.M. Colosimo and N. Senin (Eds.), ***GEOMETRIC TOLERANCES: IMPACT ON DESIGN, INSPECTION AND PROCESS MONITORING***, Springer.
6. B.M. Colosimo and M. Pacella, 2010, *MODEL-BASED APPROACHES FOR QUALITY MONITORING OF GEOMETRIC TOLERANCES* in B.M. Colosimo and N. Senin (Eds.), ***GEOMETRIC TOLERANCES: IMPACT ON DESIGN, INSPECTION AND PROCESS MONITORING***, Springer.
7. B.M. Colosimo and M. Pacella, 2010, *QUALITY MONITORING OF GEOMETRIC TOLERANCES: A COMPARISON STUDY* in B.M. Colosimo and N. Senin (Eds.), ***GEOMETRIC TOLERANCES: IMPACT ON DESIGN, INSPECTION AND PROCESS MONITORING***, Springer.
8. E. del Castillo and B. M. Colosimo, 2006, *AN INTRODUCTION TO BAYESIAN INFERENCE IN PROCESS MONITORING, CONTROL, AND OPTIMISATION* in B.M. Colosimo and E. del Castillo (Eds.) ***BAYESIAN PROCESS MONITORING, CONTROL AND OPTIMIZATION***, Chapter 1, 2006, Chapman and Hall/CRC.
9. B.M. Colosimo, 2007, *BAYESIAN CONTROL CHARTS* in ***ENCYCLOPEDIA OF STATISTICS IN QUALITY AND RELIABILITY***, vol. 1 pp.169-174, ISBN 978-0-470-01861-3, John Wiley & Sons.
10. B.M. Colosimo and E. del Castillo, 2006, *MODERN NUMERICAL METHODS IN BAYESIAN COMPUTATION* in B.M. Colosimo and E. del Castillo (Eds.) ***BAYESIAN PROCESS MONITORING, CONTROL AND OPTIMIZATION***, Chapter 2, 2006, Chapman and Hall/CRC.

Referred journals:

11. M. Grasso, B.M. Colosimo, Q. Semeraro, M. Pacella, expected 2015 (on-line 2014), *A COMPARISON STUDY OF DISTRIBUTION-FREE MULTIVARIATE SPC METHODS FOR MULTIMODE DATA*, **Quality and Reliability Engineering International**
12. B.M. Colosimo, M. Meneses, Q. Semeraro, expected 2015 (on-line 2014), On the *EFFECTIVENESS OF PROFILE MONITORING TO ENHANCE FUNCTIONAL PERFORMANCE OF PARTICLEBOARDS*, **Quality and Reliability Engineering International**
13. B.M. Colosimo, M. Pacella, N. Senin, expected 2015 (on-line 2014), *MULTISENSOR DATA FUSION VIA GAUSSIAN PROCESS MODELS FOR DIMENSIONAL AND GEOMETRIC VERIFICATION*, **Precision Engineering**, available at <http://www.sciencedirect.com/science/article/pii/S0141635914002104>
14. B.M. Colosimo, L. Pagani, M. Strano, expected 2015 (on-line 2014), *REDUCTION OF CALIBRATION EFFORT IN FEM-BASED OPTIMIZATION VIA NUMERICAL AND EXPERIMENTAL DATA FUSION*, **Structural and Multidisciplinary Optimization**. DOI 10.1007/s00158-014-1149-0 available at <http://link.springer.com/article/10.1007/s00158-014-1149-0>
15. E. Del Castillo, B.M. Colosimo, S. Tajbakhsh, expected 2015 (on-line 2014), *GEODESIC GAUSSIAN PROCESSES FOR THE RECONSTRUCTION OF A FREE-FORM SURFACE*, **Technometrics** - Published online: 13 Mar 2014 - DOI:10.1080/00401706.2013.879075, available at: <http://www.tandfonline.com/doi/full/10.1080/00401706.2013.879075#.UztGf9yMdg0>

Paper invited to be presented in the Technometrics session of the next Joint Research Conference June 24-26 2014 (Seattle, USA) - <http://jrc2014.org/program.html>.
16. M. Grasso, B.M. Colosimo, M. Pacella, 2014, *PROFILE MONITORING VIA SENSOR FUSION: THE USE OF PCA METHODS FOR MULTI-CHANNEL DATA*, **International Journal of Production Research**, (2014) 72, pp. 347–364.
17. M. Grasso, P. Pennacchi, B.M. Colosimo, 2014, *EMPIRICAL MODE DECOMPOSITION OF PRESSURE SIGNAL FOR HEALTH CONDITION MONITORING IN WATERJET CUTTING* – to appear in **International Journal of Advanced Manufacturing Technology**, published online: Feb 2014, DOI 10.1007/s00170-014-5671-4 available at: <http://link.springer.com/article/10.1007%2Fs00170-014-5671-4>
18. B.M. Colosimo, P. Cicorella, M. Pacella, M. Blaco, 2014, *FROM PROFILE TO SURFACE MONITORING: SPC FOR CYLINDRICAL SURFACES VIA GAUSSIAN PROCESSES*, **Journal of Quality Technology**, Vol. 46, No. 2, April 2014, pp. 95-113.
19. D. Colombo, B.M. Colosimo, B. Previtali, 2013, *COMPARISON OF METHODS FOR DATA ANALYSIS IN THE REMOTE MONITORING OF REMOTE LASER WELDING*, **Optics and Lasers in Engineering**, Vol. 51 (2013), pp. 34–46.

20. N. Senin, M. Pacella, B.M. Colosimo, 2013, *POINT SET AUGMENTATION THROUGH FITTING FOR ENHANCED ICP REGISTRATION OF POINT CLOUDS IN MULTISENSOR COORDINATE METROLOGY*, **Robotics and Computer-Integrated Manufacturing**, Vol. 29 (2013), pp. 39–52.
21. M. Grasso, M. Goletti, M. Annoni, B. M. Colosimo, 2013, *A NEW APPROACH FOR ONLINE HEALTH ASSESSMENT OF ABRASIVE WATERJET CUTTING SYSTEMS*, **Int. J. Abrasive Technology**, Vol. 6, No. 2, 2013, pp.158–181.
22. B.M. Colosimo, E. del Castillo and H. Alshraideh, 2012, *BAYESIAN MODELING AND ROBUST OPTIMIZATION OF FUNCTIONAL RESPONSES AFFECTED BY NOISE FACTORS*, **Journal of Quality Technology**, Vol. 44, Number 2, April 2012, pp. 117-135.
23. E. del Castillo and B.M. Colosimo, 2011, *STATISTICAL SHAPE ANALYSIS OF EXPERIMENTS FOR MANUFACTURING PROCESSES*, **Technometrics**, Vol. 53, number 1, pp. 1–15, 2011.
24. E. Gutiérrez, B.M. Colosimo, Q. Semeraro, L. Onieva, 2011, *DESIGN OF GENERAL-PURPOSE SAMPLING STRATEGIES FOR GEOMETRIC SHAPE MEASUREMENT*, **International Journal of Process Systems Engineering**, Vol. 1, number 2, pp. 184-196, 2011.
25. B.M. Colosimo and M. Pacella, 2011, *ANALYSING THE EFFECT OF PROCESS' PARAMETERS ON THE SHAPE OF 3D PROFILES*, **Journal of Quality Technology**, Vol. 43, number 3, JULY 2011,
26. B.M. Colosimo and M. Pacella, 2010, *A COMPARISON STUDY OF CONTROL CHARTS FOR STATISTICAL MONITORING OF FUNCTIONAL DATA*, **International Journal of Production Research**, Vol. 48, number 6, pp. 1575–1601.
27. B.M. Colosimo, G. Moroni and S. Petró, 2010, *A TOLERANCE INTERVAL BASED CRITERION FOR OPTIMIZING DISCRETE POINT SAMPLING STRATEGIES*, *Precision Engineering*, Vol. 34 (2010), pp. 745–754.
28. B.M. Colosimo, G. Moroni and M. Grasso, 2010, *REAL-TIME TOOL CONDITION MONITORING IN MILLING BY MEANS OF CONTROL CHARTS FOR AUTO-CORRELATED DATA*, **Journal of Machine Engineering**, Vol. 10, number 2, pp. 5–17, 2010.
29. R. Bini, B.M. Colosimo, A.E. Kutlu and M. Monno, 2008, *EXPERIMENTAL STUDY OF THE FEATURES OF THE KERF GENERATED BY A 200 A HIGH TOLERANCE PLASMA ARC CUTTING SYSTEM*, **Journal of Materials Processing Technology**, vol. 196, pp. 345-355.
30. B.M. Colosimo, M. Pacella and Q. Semeraro, 2008, *STATISTICAL PROCESS CONTROL FOR GEOMETRIC SPECIFICATIONS: ON THE MONITORING OF ROUNDNESS PROFILES*, **Journal of Quality Technology**, vol. 40, number 1, January 2008, pp. 1-18.
31. B.M. Colosimo, E. Gutierrez Moya, G. Moroni and S. Petró, 2008, *STATISTICAL SAMPLING STRATEGY FOR GEOMETRIC TOLERANCE INSPECTION BY CMM*, **Economic Quality Control**, Heldermann Verlag, Vol. 23 (2008).
32. B.M. Colosimo, F. Godio and L. Palmieri, 2007, *COMPARATIVE STUDIES OF CONTROL CHARTS FOR TORQUE DATA IN AUTOMOTIVE COMPONENT ASSEMBLING*, **International Journal of Technology Management**, vol. 37, numbers 1/2, 2007, pp. 72-85.

33. B.M. Colosimo and M. Pacella, 2007, *ON THE USE OF PRINCIPAL COMPONENT ANALYSIS TO IDENTIFY SYSTEMATIC PATTERNS IN GEOMETRIC PROFILES*, **Quality & Reliability Engineering International**, vol. 23, number 6, pp. 707-725.
34. M. Strano and B.M. Colosimo, 2006, *LOGISTIC REGRESSION ANALYSIS FOR EXPERIMENTAL DETERMINATION OF FORMING LIMIT DIAGRAMS*, **International Journal of Machine Tools & Manufacture**, vol. 46, pp. 673-682.
35. Z. Lian, B.M. Colosimo and E. del Castillo, 2006, *SETUP ERROR ADJUSTMENT: SENSITIVITY ANALYSIS AND A NEW MCMC CONTROL RULE*, **Quality & Reliability Engineering International**, vol. 22, pp. 403-418.
36. Z. Lian, B.M. Colosimo and E. del Castillo, 2006, *SETUP ADJUSTMENT OF MULTIPLE LOTS USING A SEQUENTIAL MONTE CARLO METHOD*, **Technometrics**, vol. 48, number 3, pp. 373-385.
37. L. Catellani, B.M. Colosimo and Q. Semeraro, 2006, *CRITICAL ISSUES IN DETECTING OUT-OF-CONTROL SAMPLES IN CUSTOMER SATISFACTION SURVEYS*, **International Journal Total Quality Management & Excellence**, vol. 34, numbers 1 - 2, pp. 15 - 23.
38. B.M. Colosimo, R. Pan and E. del Castillo, 2005, *SETUP ADJUSTMENT FOR DISCRETE-PART MANUFACTURING PROCESSES WITH ASYMMETRIC COST FUNCTIONS*, **International Journal of Production Research**, vol. 43, Number 18, pp. 3837 - 3854.
39. L. Catellani, B.M. Colosimo and Q. Semeraro, 2005, *USING PARTIAL LEAST SQUARES REGRESSION TO ANALYSE QUALITY IN HIGHER EDUCATION* (Keynote paper), **Total Quality Management & Excellence**, vol. 33, number 3, pp. 101 - 107.
40. B.M. Colosimo, R. Pan and E. del Castillo, 2004, *A SEQUENTIAL MARKOV CHAIN MONTE CARLO APPROACH TO SETUP ADJUSTMENT OF A PROCESS OVER A SET OF LOTS*, **Journal of Applied Statistics**, vol. 31, number 5, pp. 499-520.
41. E. del Castillo, R. Pan and B.M. Colosimo, 2003, *AN UNIFYING VIEW OF SOME PROCESS ADJUSTMENT METHODS*, **Journal of Quality Technology**, vol. 35 number 3, pp. 286-293.
42. E. del Castillo, R. Pan and B.M. Colosimo, 2003, *SMALL SAMPLE PERFORMANCE OF SOME STATISTICAL SETUP ADJUSTMENT METHODS*, **Communications in statistics - Simulation and Computation**, vol. 32, number 3, pp. 923 - 941.
43. B.M. Colosimo, Q. Semeraro and T. Tolio, 2002, *DESIGNING \bar{X} CONTROL CHARTS IN A MULTISTAGE SERIAL MANUFACTURING SYSTEM*, **CIRP - Journal of Manufacturing Systems**, vol. 31, number 6, pp. 477-483.
44. B.M. Colosimo, A. Poggi and T. Tolio, 2002, *THE TOOLING SYSTEM CONFIGURATION IN A NEW MANUFACTURING SYSTEM ARCHITECTURE*, **International Journal of Production Research**, vol. 40, number 15, pp. 3779-3790.
45. B.M. Colosimo, M. Monno and Q. Semeraro, 2000, *PROCESS PARAMETERS CONTROL IN WATER JET PEENING*, **Int. Journal of Materials and Product Technology**, vol. 15, numbers 1-2, 2000, pp. 10-19.

46. B.M. Colosimo, Q. Semeraro and T. Tolio, 2000, *RULE BASED SYSTEM FOR NON LINEAR PROCESS PLAN GENERATION*, ***Studies in Informatics and Control***, vol. 9, number 2, June 2000, pp.133-143.
47. T. Tolio, B.M. Colosimo and Q. Semeraro/ F. Jovane, 1997, *A METHOD FOR TOOLING CONFIGURATION IN INTEGRATED MANUFACTURING SYSTEMS*, ***Annals of the CIRP***, Vol.46/1/1997, pp.411-414.

International referred conferences - peer-reviewed (with proceedings):

48. B.M. Colosimo, L. Pagani, M. Strano, 2014, *HIERARCHICAL METAMODELING: CROSS VALIDATION AND PREDICTIVE UNCERTAINTY*, ***Key Engineering Materials***, vol. 611-612 pp. 1519-1527 (Esaform 2014).
49. M. Meneses, B.M. Colosimo, 2014, *DEVELOPMENT AND VALIDATION OF AN INSTRUMENT TO MEASURE PERCEIVED SERVICE QUALITY OF AN ACADEMIC LIBRARY IN COSTA RICA*, 21st *EurOMA Conference, Operations Management in an innovation economy*, 20-25 June 2014, Palermo (Italy)
50. Maggioni M., Marzorati E., Grasso, M., Colosimo B.M., Parenti P., 2014, *IN-PROCESS QUALITY CHARACTERIZATION OF GRINDING PROCESSES: A SENSOR-FUSION BASED APPROACH* – to be presented at *ASME 2014 12th Biennial Conference on Engineering Systems Design and Analysis (ESDA2014)* Copenhagen, Denmark, 25 – 27 June, 2014.
51. Tansky D., Fischer A., Colosimo B.M., Pagani L., Shabat Y.B., 2014, *MULTI-SENSOR MULTI-RESOLUTION DATA FUSION MODELING* 24th *CIRP design conference*, 14-16 April, 2014, Milano, Italy.
52. M. Annoni, B.M. Colosimo, L. Pagani, L. Rebaioli, Q. Semeraro, 2014, *GEOMETRICAL QUALITY IMPROVEMENT OF HIGH ASPECT RATIO MICROMILLED PINS* *Proceedings of NAMRI/SME*, Vol. 42, 2014
53. B.M. Colosimo, L. Pagani, M. Strano, 2013, *METAMODELING BASED ON THE FUSION OF FEM SIMULATIONS RESULTS AND EXPERIMENTAL DATA*, ***Key Engineering Materials***, vol. 554-557 pp. 2487-2498 (Esaform 2013).
54. B.M. Colosimo, 2013, *PROFILE AND SURFACE MONITORING METHODS FOR SHAPES*, invited contributions in the session entitled “A decade of Profile Monitoring: What’s Next?”, Joint Statistical Meeting 2013, Montreal Canada August 3-8 2013 (paper with proceedings).
55. B.M. Colosimo, L. Pagani, Q. Semeraro, E. del Castillo, 2013, *GEODESIC GAUSSIAN PROCESS FOR THE RECONSTRUCTION OF MICRO-PINS SURFACES*, S.Co. 2013, Complex data modelling and Computationally Intensive Statistical Methods for Estimation and Predictions, 9-13 September, Milano
56. P. Cicorella, B.M. Colosimo, M. Pacella, 2013, *STATISTICAL PROCESS MONITORING OF COMPLEX SHAPES VIA GAUSSIAN PROCESS MODELING*, S.Co. 2013, Complex data Modelling and Computationally Intensive Statistical Methods for Estimation and Predictions, 9-13 September, Milano

57. D. Colombo, B. M. Colosimo, B. Previtali, D. Bassan, M. Lai and G. Masotti, 2012, *THROUGH THE OPTICAL COMBINER MONITORING IN REMOTE FIBER LASER WELDING OF ZINC COATED STEELS*, Proceedings of SPIE - The International Society for Optical Engineering 8239, art. no. 82390F (February 9, 2012), DOI:10.1117/12.909903
58. M. Grasso, B.M. Colosimo and G. Moroni, 2012, *THE USE OF ADAPTIVE PCA-BASED CONDITION MONITORING METHODS IN MACHINING PROCESSES*, Proceedings of the ASME 2012 - 11th Biennial Conference on Engineering Systems Design and Analysis, ESDA2012 July 2-4, 2012, Nantes, France
59. M. Grasso, P. Albertelli and B.M. Colosimo, 2012, *AN ADAPTIVE SPC APPROACH FOR MULTI-SENSOR FUSION AND MONITORING OF TIME-VARYING PROCESSES*, 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME '12) 18 - 20 July 2012, Ischia (Naples), Italy
60. M. Goletti, M. Grasso, M. Annoni and B.M. Colosimo, 2012, *CONDITION MONITORING OF AN ULTRA HIGH PRESSURE INTENSIFIER FOR WATERJET CUTTING MACHINES*, 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME '12) 18 - 20 July 2012, Ischia (Naples), Italy
61. B. M. Colosimo, M. Meneses and Q. Semeraro, 2012, *VERTICAL DENSITY PROFILE MONITORING USING MIXED-EFFECTS MODEL*, 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME '12) 18 - 20 July 2012, Ischia (Naples), Italy
62. M. Pacella and B.M. Colosimo, 2012, *DIFFERENT FORMULATIONS OF PRINCIPAL COMPONENT ANALYSIS FOR 3D PROFILES AND SURFACES MODELING*, 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering (CIRP ICME '12) 18 - 20 July 2012, Ischia (Naples), Italy.
63. B.M.Colosimo, S. Doriguzzi, M. Meneses and Q. Semeraro, 2011, *FUNCTIONAL DATA MODELING AND MONITORING APPLIED TO PARTICLEBOARD MANUFACTURING*, 14th Applied Stochastic Models and Data Analysis International Conference, 7-10 June 2011 Rome Italy.
64. M. Strano, B.M. Colosimo and E. Del Castillo, 2011, *IMPROVED DESIGN OF A THREE ROLL TUBE BENDING PROCESS UNDER GEOMETRICAL UNCERTAINTIES*, The 14th International ESAFORM Conference on Material Forming AIP Conf. Proc. 1353, 35-40 (2011); DOI: 10.1063/1.3589488
65. B.M.Colosimo, G.Moroni and M.Grasso, 2010, *ON THE USE OF STATISTICAL PROCESS CONTROL APPROACHES FOR AUTOMATED AND REAL-TIME MONITORING OF MACHINING PROCESSES*, Proceedings of the ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis - ESDA2010 -, July 12-14, 2010, Istanbul, Turkey
66. E. Gutiérrez, B.M. Colosimo, Q. Semeraro and L. Onieva, 2009, *DATA REDUCTION IN QUALITY INSPECTION OF GEOMETRIC SHAPES*, 3rd International Conference on Integrity, Reliability & Failure (IRF'2009), Porto-Portugal, July 20-24, 2009

67. B.M. Colosimo and M. Pacella, 2008, *COMPLEX PCA AS AN EXPLORATORY TOOL FOR 3-DIMENSIONAL PROFILES*, Annual ENBIS (European Network for Business and Industrial Statistics) Conference Athens, 21-25 September, 2008
68. L. Catellani, B.M. Colosimo and Q. Semeraro, 2007, *DETECTING OUTLYING SAMPLES IN CUSTOMERS' SATISFACTION SURVEYS ANALYSIS: THE EFFECT OF SCALING THE ORDINAL DATA*, 4th International Working Conference TQM - Advances and Intelligent Approaches – sponsored by CIRP, Belgrade, Serbia & Montenegro, 27-30 May 2007
69. B.M. Colosimo, *QUALITY CONTROL OF GEOMETRIC FEATURES IN DISCRETE PART MANUFACTURING*, 2007, S.Co. 2007 – Complex Models and Computation Intensive Methods for Estimation and Prediction, Venice, September 6-8, 2007
70. B.M. Colosimo, E. Gutierrez Moya, G. Moroni and S. Petró, 2007, *MEASURING STRATEGY DEFINITION FOR FLATNESS: A CASE STUDY*, 10th CIRP International Seminar on Computer Aided Tolerancing (CAT 2007), Erlangen, Germany, March 21-23 2007.
71. B.M. Colosimo, A.N. Intieri and M. Pacella, 2006, *IDENTIFICATION OF MANUFACTURING PROCESSES SIGNATURE BY A PRINCIPAL COMPONENT BASED APPROACH*. 5th CIRP International Seminar on Intelligent Computation in Manufacturing Engineering, Ischia, July 25-28, Italy.
72. M. Strano and B.M. Colosimo, 2006, *ORDINAL LOGISTIC REGRESSION ANALYSIS FOR STATISTICAL DETERMINATION OF FORMING LIMIT DIAGRAMS* The 9th International Esaform Conference on Material Forming (ESAFORM 2006) Glasgow, United Kingdom, April 26-28 2006.
73. L. Catellani, B.M. Colosimo, M. Grandini and S. Heinemann, 2006, *A STATISTICAL TOOL FOR THE ANALYSIS OF STUDENT SATISFACTION QUESTIONNAIRES*, 9th Toulon Verona Conference "Quality in services", Paisley - Scotland, 7-8 September 2006.
74. B.M. Colosimo and M. Pacella, 2006, *ON THE USE OF PRINCIPAL COMPONENT ANALYSIS FOR IDENTIFYING AND MONITORING GEOMETRIC PROFILES*, Sixth Annual ENBIS (European Network for Business and Industrial Statistics) Conference Wroclaw, 18–20 September, 2006. (selected as paper to be published on *Quality & Reliability Engineering International* after a peer review, which completely changed the paper).
75. L. Catellani, B.M. Colosimo and Q. Semeraro, 2005, *ANALYSIS AND COMPARISON OF UNIVERSITY RANKING MODELS*, 8th Toulon Verona Conference "Quality in services", Palermo, Italy, 8-9 September 2005.
76. B.M. Colosimo and M. Pacella, 2005, *ON THE IDENTIFICATION OF MANUFACTURING PROCESSES' SIGNATURE*, 18th International Conference on Production Research (ICPR), July 31st -August 4th, 2005, Salerno.
77. B.M. Colosimo, G. Moroni, S. Petro' and Q. Semeraro, 2004, *MANUFACTURING SIGNATURE OF TURNED CIRCULAR PROFILES*, IFAC Conference on Manufacturing, Modelling, Management and Control Athens, Greece, 21-22 October 2004.
78. Z. Lian, B.M. Colosimo, and E. del Castillo, 2004, *SETUP ERROR ADJUSTMENT OF MULTIPLE LOTS USING A SEQUENTIAL MONTECARLO METHOD*, INFORMS 2004 in Denver,

October 24-27, 2004. (preliminary work extended and completed in [36] presented by Z. Lian and selected as finalist of the 2004 QSR Best Student Paper Competition http://qsr.section.informs.org/qsr_activities.htm).

79. B.M. Colosimo, 2003, *ON THE DESIGN OF BAYESIAN CONTROL CHART USING MARKOV DECISION PROCESSES*, 2003 Proceedings of the American Statistical Association, Quality & Productivity Research Conference, IBM T. J. Watson Research Ctr., Yorktown Heights, New York, May 21-23, 2003.
80. B.M. Colosimo, W. Polini and Q. Semeraro, 2003, *A BAYESIAN APPROACH TO NON-LINEAR STATISTICAL TOLERANCE ANALYSIS WITH VARIANCE COMPONENT MODELS*, the 8th CIRP International Seminar on Computer Aided Tolerancing 2003, Charlotte, North Carolina, April 2003, pp. 132-141.
81. B.M. Colosimo and Q. Semeraro, 2002, *A BAYESIAN CONTROL CHART FOR SERVICE QUALITY CONTROL*, 2002 Proceedings of the American Statistical Association, Quality & Productivity Research Conference, Tempe, Arizona June 5-7, 2002.
82. B.M. Colosimo and M. Monno, 1999, *SURFACE STRENGTHENING BY WATER JET PEENING*, 5th International Conference on Advanced Manufacturing Systems – AMST '99 Udine, Italy 3-4 June 1999.
83. B.M. Colosimo, M. Pellizzaro, Q. Semeraro and T. Tolio, 1999, *APPGI: A NEW APPROACH FOR ALTERNATIVE PROCESS PLANS GENERATION*, 32nd CIRP International Seminar on Manufacturing Systems, Leuven, Belgium, May 24-26 1999.
84. B.M. Colosimo, D. Conti, A. Grieco and T. Tolio, 1998, *FMS LOADING IN PRESENCE OF TOOL SHARING*, CIRP International Seminar on Intelligent Computation in Manufacturing Engineering – ICME '98, 1-3 July 1998, Capri (Naples), Italy.
85. B.M. Colosimo, A. Grieco, Q. Semeraro and T. Tolio, 1997, *TOOLING CONFIGURATION IN FMSS: AN ANALYTICAL MODEL FOR PERFORMANCE EVALUATION*, IFAC-Workshop on Manufacturing Systems: Modelling, Management and Control MIM '97, Vienna, Austria, February 5-7 1997, pp. 479-484.
86. B.M. Colosimo, A. Grieco, Q. Semeraro and T. Tolio, 1997, *AN ALGORITHM FOR REAL TIME PART DISPATCHING UNDER TOOL CONSTRAINT IN FMSS*, Second International ICSC Symposium on Intelligent Industrial Automation – IIA '97 – Nimes, France, September 17-19 1997, pp.176-181.

Invited contributions to conferences (invited talk without proceedings):

87. B.M. Colosimo, M. Grasso, A. Menafoglio and P. Secchi, 2014, *COMBINING WARPING FUNCTIONS AND FUNCTIONAL PRINCIPAL COMPONENT ANALYSIS TO ENHANCE PROFILE MONITORING OF SIGNAL DATA*, accepted for presentation to the Joint Research Conference 2014, June 24-26, 2014, Seattle (USA)

88. Invited discussant at the First Stu Hunter Conference - 12-15 March 2013 - NH Marquette Netherlands (discussant of the paper Latent structures based-multivariate Statistical process control: A paradigm shift presented by A. Ferrer).
89. M. Grasso and B.M. Colosimo, 2013, *QUALITY MONITORING OF MANUFACTURING PROCESSES BY IN-PROCESS SENSOR SIGNALS*, INFORMS Annual Meeting, 2013, 4-9 October Minneapolis.
90. B.M. Colosimo, E. del Castillo and H. Alshraideh, 2012, *BAYESIAN MODELING AND OPTIMIZATION OF FUNCTIONAL RESPONSES AFFECTED BY NOISE FACTORS*, INFORMS Annual Meeting, 2012 October 14-17, JQT invited session (invited talk for the best paper published on JQT in 2012).
91. P. Cicorella, M. Pacella and B. M. Colosimo, 2011, *AN SPC PROCEDURE BASED ON MULTISENSOR METROLOGY DATA FUSION*, INFORMS Annual Meeting, Charlotte, November 13-16, 2011.
92. B.M. Colosimo, 2007, *ON THE USE OF PROFILE MONITORING FOR QUALITY CONTROL OF GEOMETRICAL PRODUCT SPECIFICATIONS*, INFORMS Annual Meeting, Seattle, November 4-7, 2007.
93. B.M. Colosimo, M. Pacella and Q. Semeraro, 2006, *QUALITY CONTROL OF GEOMETRIC FEATURES: MONITORING ROUNDNESS PROFILES OBTAINED BY TURNING*. 2006 Joint Research Conference on Statistics in Quality, Industry and Technology, Knoxville, TN, June 7-9, 2006.

National referred conferences (peer-reviewed):

94. B.M. Colosimo and M. Pacella, 2011, *ON INTEGRATING MULTISENSOR DATA FOR QUALITY INSPECTION AND MONITORING*, X Convegno A.I.Te.M., 2011, Napoli, 12-14 September 2011.
95. B.M. Colosimo and M. Pacella, 2007, *CONTROL CHARTS FOR FUNCTIONAL DATA: A COMPARISON STUDY*. VIII Convegno A.I.Te.M., 2007, Montecatini Terme, 10-12 September 2007.
96. B.M. Colosimo and M. Pacella, 2005, *A PROFILE-MONITORING METHOD FOR QUALITY CONTROL OF MANUFACTURED ITEMS*. VII Convegno A.I.Te.M., 2005, Lecce, 7-9 September 2005
97. B.M. Colosimo, M. Monno and Q. Semeraro, 1999, *DESCALING BY PURE WATER JET*, IV Convegno A.I.Te.M., Brescia, 13-15 September 1999.
98. G. Celano, B.M. Colosimo and S. Fichera, 2003, *ON SELECTING ADAPTIVE PARAMETERS IN DYNAMIC \bar{X} CONTROL CHARTS FOR FINITE PRODUCTION RUN*, VI Convegno A.I.Te.M., Gaeta, 8-10 September 2003.
99. B.M. Colosimo, L. Imberti and T. Tolio, 2001, *APPG A METHOD TO AUTOMATICALLY TRANSFORM A LINEAR PART PROGRAM IN A NETWORK PART PROGRAM*, V Convegno A.I.Te.M., Bari, 18-20 September 2001.

100. B.M. Colosimo, 2001, *SERVICE QUALITY CONTROL USING BAYESIAN NETWORK*, V Convegno A.I.Te.M., Bari, 18-20 September 2001- Award Young Researcher by the A.I.Te.M association .
101. B.M. Colosimo and Q. Semeraro, 1999, *ECONOMIC DESIGN OF A BAYESIAN ADAPTIVE CONTROL CHART FOR NONCONFORMITIES*, IV Convegno A.I.Te.M., Brescia, 13-15 September 1999.

National journals and books:

102. M. Annoni, R. Bini, B.M. Colosimo, A.E. Kutlu and M. Monno, 2008, *CARATTERIZZAZIONE E OTTIMIZZAZIONE DEL PARAMETRI DI TAGLIO NEL PLASMA AD ALTA DEFINIZIONE*, LAMIERA, pp. 114-121, vol. 10.
103. B.M. Colosimo, 2005, *SISTEMI AUTOMATICI PER IL CONTROLLO QUALITÀ - EFFETTI DELL'INTRODUZIONE DI SISTEMI AUTOMATICI PER IL CONTROLLO QUALITÀ SULLE PRINCIPALI TECNICHE DI STATISTICAL PROCESS CONTROL (SPC)*, Qualità on-line, Anno XXXV - n° 1, Settembre 2005
104. B.M. Colosimo, G. Moroni, Q. Semeraro, T.Tolio, S. Noto La Diega, G. Perrone, A. Zinno, A. Anglani, A. Greco and F. Nucci, 2001, In Modelli per la gestione di sistemi di produzione in condizione di incertezza a cura di A. Villa. *CAPITOLO 5: Strumenti innovativi di simulazione*.
105. B.M. Colosimo, G. Moroni, Q. Semeraro, T.Tolio, A. Anglani, A. Greco and E. Guerriero, 2001, In Modelli per la gestione di sistemi di produzione in condizione di incertezza a cura di A. Villa. *CAPITOLO 3: MODELLI DI ALLOCAZIONE DELLA CAPACITÀ PRODUTTIVA IN SISTEMI A MACCHINE PARALLELE*.
106. B.M. Colosimo and G. Motter, 1999, *PALLINATURA A GETTO D'ACQUA (WATER JET PEENING): UN NUOVO PROCESSO DI TRATTAMENTO DELLE SUPERFICI*, Tecniche nuove – Luglio 1999.