

CRISTIANO BOCCI - CURRICULUM VITAE

Contact Information

Cristiano Bocci
Department of Information Engineering and Mathematics
University of Siena
Via Roma, 56
53100, Siena, Italy

Phone: +39-0577235899

Fax: +39-00577233609

E-mail: cristiano.bocci@unisi.it

<https://docenti.unisi.it/it/bocci>

Born: Casteldelpiano (Grosseto), Italy, February 18, 1975.

Professional Experiences:

Full professor	DIISM, University of Siena, 1/02/2024–present
Associate professor	DIISM, University of Siena, 1/11/2019–31/01/2024
Assistant professor	DIISM, University of Siena, 31/12/2008 – 30/10/2019
Instructorship	I.T.I.S, 2007 – 2008
Post-doctoral	University of Milano, 2003 – 2007

Institutional activities

2021–present	President of the Committee of the Bachelor in Mathematics
2021–present	President of the Committee Quality Assurance Bachelor in Mathematics
2015–2021	Didactic Committee of the Bachelor in Mathematics
2015–2021	DIISM Orientation Commission

Education:

Doctor of Philosophy	University of Torino, 2004 Thesis Advisors: Profs. Alberto Collino and Rick Miranda Thesis title: <i>Special linear systems and special effect varieties.</i>
Laurea cum laude	University of Siena, 1999 Thesis Advisor: Prof. Luca Chiantini Thesis title: <i>Geometry of obstructions for families of curves in the projective space</i> (Equivalent to a BA degree in the US)
Fellowship	Project Erasmus, Université Libre de Bruxelles, Spring 1997

Teaching:**Courses for undergraduate students**

- 2020–present Multilinear Geometry
Master in Applied Mathematics
Department of Information Engineering and Mathematics,
University of Siena
- 2009–present Analytic Geometry
Bachelor in Mathematics
Department of Information Engineering and Mathematics,
University of Siena
- 2011–2012 Complementi di Geometria
Master in Mathematics
Department of Information Engineering and Mathematics,
University of Siena
- Spring 2002 Grading Assistant for the class M369, Linear Algebra, at Col-
orado State University
- Fall 2001 Teaching Assistant for the class of Geometry I at the Faculty
of Engineering of the Politecnico of Torino

Courses for Ph.D. students

- 2020-2021 Combinatorial structures for applied sciences
Department of Information Engineering and Mathematics,
University of Siena
- 2016-2017 Geometric Combinatorics
Department of Information Engineering and Mathematics,
University of Siena
- 2014-2015 Tensor calculus for applied sciences
Department of Information Engineering and Mathematics,
University of Siena
- July 2014 Teacher at the “Summer school on tensors”, Trento Univer-
sity, Italy
- February 2014 Teacher at the “Winter school on tensors”, Konkuk Univer-
sity, Seoul, Korea
- 2011–2013 Questions of computational Biology
(Department of Information Engineering and Mathematics,
University of Siena)

- Spring 2006 Tropical Geometry
Department of Mathematics, University of Milano
- September 2003 Exercise Assistant at the School/Workshop (for Ph.D. students) on “Polynomial Interpolation and Projective Embeddings” Main speakers: Luca Chiantini, Rick Miranda

A047-Math qualification (to teach in the italian High Schools) since October 2000

Organizations of Seminars and Conferences:

- 2014-2020 Monthly seminars in Algebraic Geometry among universities of Bologna, Ferrara, Firenze, Milano, Torino and Siena
Co-Organizers: Elena Angelini, Alberto Calabri, Luca Chiantini, Massimiliano Mella, Giorgio Ottaviani
- July 31 - August 4, 2017 Mini-Symposium “Applications of Algebra to Signal Processing and Digital Imaging”, SIAM Conference on Applied Algebraic Geometry, Atlanta (USA)
Co-Organizers: Cameron L. Farnsworth, Luke Oeding
- September, 7-12 2015 XX Congresso UMI, Siena (Italy)
Co-Organizers: Luca Chiantini, Alessandro Agnetis, Mariella Loffredo, Duccio Papini, Francesca Ricci, Lucia Sampoli, Andrea Sorbi
- February, 15-21, 2015 Mini Workshop “Ideals of Linear Subspaces, Their Symbolic Powers and Waring Problems”, Mathematischen Forschungsinstitut Oberwolfach, February 15-21, 2015,
Co-Organizers: Enrico Carlini, Elena Guardo, Brian Harbourne
- June, 8-12, 2004 Projective Varieties with Unexpected Properties: A Conference in honour of the 150th anniversary of the birth of G.Veronese, Siena (Italy)
Co-Organizers: Luca Chiantini, Anthony V. Geramita
- 2000-2001, 2002-2003 TO.P.M.A.G (joint biweekly seminars for Ph.D. students at the Universities of Torino, Pavia and Milano)
Co-organizers: Enrico Carlini, Stefano Vigni.

In Program:

- September, 2024 Mini Workshop “Hadamard products of projective varieties”, Mathematischen Forschungsinstitut Oberwolfach, Germany,
Co-Organizers: Enrico Carlini, Elena Guardo, Adam Van Tuyl

Professional Trips:

- 2021
March 8 - June 11 IPAM long program
Tensor Methods and Emerging Applications to the Physical and Data Sciences
Online
- 2017
August Auburn University, Alabama, USA
Host: Prof. Luke Oeding
Purpose: studies about identifiability of tensors
- 2014
March Monash University, Melbourne, Australia
Host: Prof. Enrico Carlini
Purpose: studies about Hadamard product of varieties
- 2014
February KIAS, Seoul, Korea
Host: Prof. Kangjin Han
Purpose: studies about tensors
- 2013
March Uniwersytet Pedagogiczny, Krakow, Poland
Host: Prof. Tomasz Szemberg
Purpose: studies in Geometry about symbolic powers
- 2012
July Katholieke Universiteit Leuven, Belgium
Host: Dott. Filip Cools
Purpose: studies in Geometry about realization of matrices by graphs of genus 1
- 2011
April University of Nebraska, Lincoln, NE
Host: Prof. Brian Harbourne
Purpose: studies in Algebraic Geometry about comparison of symbolic and ordinary powers of ideals.
- 2009
June Katholieke Universiteit Leuven, Belgium
Host: Dott. Filip Cools
Purpose: studies in Tropical Geometry about spaces of parameters for m -dissimilarities map in Biology
- 2007
May-June Colorado State University
Host: Profs. Rick Miranda and Chris Peterson
Purpose: studies in Algebraic Geometry about degenerations and special linear systems. Studies and applications of Tropical Geometry to previous topics
- 2007
April University of Nebraska, Lincoln, NE
Host: Prof. Brian Harbourne
Purpose: studies in Algebraic Geometry about comparison of symbolic and ordinary powers of ideals.

2007 January–March	Institute of Mathematics and Applications University of Minnesota General member at IMA during the thematic year on “Applications of Algebraic Geometry”.
2006 October–December	Colorado State University Host: Profs. Rick Miranda and Chris Peterson Purpose: studies in Algebraic Geometry about degenerations and special linear systems. Studies and applications of Tropical Geometry to previous topics.
2005 October	Universitet I Oslo Host: Professor Kristian Ranestad Purpose: studies in Algebraic Statistics
2005 March	Colorado State University Host: Profs. Rick Miranda Purpose: studies in Algebraic Geometry about fat points
2005 February	University of Nebraska, Lincoln, NE Host: Prof. Brian Harbourne Purpose: studies in Algebraic Geometry about NEF divisors
2002 January–November	Colorado State University, Fort Collins, CO Host: Prof. Rick Miranda Purpose: studies in Algebraic Geometry, related to PhD thesis

Invited Talks:

As speaker in international or national conferences

- Hadamard product of varieties
 - XXI Congresso dell’Unione Matematica Italiana, Pavia (Italy), September 2–7, 2019
- Complex identifiability and real identifiability
 - Myni-symposium “Decomposition and Identifiability of Real and Complex Tensors”, SIAM Conference on Applied Algebraic Geometry, Atlanta (USA), July 31-August 4, 2017
- Complex identifiability and real identifiability
 - Workshop “Algebraic and Combinatorial Phylogenetics”, Barcelona, June 26-30, 2017
- Recent results for the containment problem and Waldschmidt constants
 - INdAM Italian-Korean Meeting on Algebraic Geometry 2015, Palazzone di Cortona, Cortona (Italy), June 29-July 3, 2015
- A first approach to Hadamard product of varieties

- Colloquium GRIFGA 2015, Palazzo Feltrinelli - Gargnano del Garda (Brescia), April 15-18, 2015
- Advances in model identifiability: Bernoulli, tensors, and beyond
 - Algebraic Geometry in Applications and Algorithms First Joint International Meeting RSME-SCM-SEMA-SIMAI-UMI, Bilbao, Spain, June 30 - July 4, 2014
- m -dissimilarity tensors and graphs of genus 1
 - Mini-workshop on Algebraic Geometry and its Applications, KIAS, Seoul, Korea, February 21, 2014
- Advances in model identifiability: Bernoulli, tensors, and beyond
 - Siam Conference in Applied Algebraic Geometry, Fort Collins (CO), USA, August 1-4, 2013
- Advances in model identifiability: Bernoulli, tensors, and beyond
 - Workshop on Algebraic Statistics, IST-Austria, September 28-30, 2012
- Containment results for ideals of various configurations of points in \mathbb{P}^N
 - “Linear Series on Algebraic Surfaces”, University of Mainz, July 8-14, 2012
- Containment results for ideals of various configurations of points in \mathbb{P}^N
 - G.T.M. Seminar: Genova Torino Milano: some topics in Commutative Algebra and Algebraic Geometry, Università di Torino, June 28-29, 2012
- Applications of geometric theories to Biology,
 - SIMAI -Young Researcher Workshop on Theoretical Approaches and Related Mathematical Methods in Biology and Medicine L’Aquila, December 1-2, 2011
- New objects to characterize Dynamic Markov Systems
 - Conference on Tropical Geometry and Computational Biology, Saarbrücken, September 26-30, 2011
- New objects to characterize Dynamic Markov Systems
 - School/Workshop on Tropical Geometry and Toric Variety, Trento, September 12-19, 2011
- The effect of points fattening on postulation
 - Mini-Workshop on Linear Series on Algebraic Varieties, Mathematisches Forschungsinstitut Oberwolfach, October 3-9, 2010.
- A computer-geometric model for a theory of evolution
 - “Biophys 2010: Byology and Beyond”, September 9-11, 2010
- Comparing powers and symbolic powers of ideals
 - Workshop on Seshadri Constants, UB-UPC, November 27-29, 2008
- Comparing powers and symbolic powers of ideals
 - AMS Joint Mathematics Meetings, San Diego, January 6-9, 2008
- A tropical interpretation of m -dissimilarity maps
 - School/Workshop on Geometry of Special Varieties, Trento, September 10-15, 2007
- Geometric and algebraic tools in Phylogenetics
 - Conference “Biophys 06: Back to the Nature”, Arcidosso (Italy), September 6-8, 2006
- Special linear systems and special effect varieties

- 7th Edition of “Giornate di Geometria Algebrica ed Argomenti Correlati”, Rimini, May 18-22, 2004
- Multiple Points in \mathbb{P}^2
 - School/Workshop “Polynomial Interpolation and Projective Embeddings”, Politecnico of Torino, September 15 - 20, 2003
- A first approach to Special Effect Varieties
 - Workshop “Zero-Dimensional Schemes and Related Topics”, Politecnico of Torino, February 13 - 14, 2003
- Families of Gorenstein Ideals
 - School/Workshop on “Liaison Theory and Related Topics”, Politecnico of Torino, October 3, 2001

By invitation in Departments and Institutes

- Graph realization of matrices and tensors
 - Department of Mathematics, University of Ferrara, March 14, 2019
- Hadamard products of varieties
 - Department of Mathematics, University of Bologna, March 3, 2017
- From fat points to chromatic numbers
 - Department of Mathematics, Politecnico di Torino, April 28, 2016
- A first approach to Hadamard product of varieties
 - Department of Mathematics, University of Milano, April 20, 2015
- Identifiability of Segre products
 - Monash University, Melbourne, Australia, March 20, 2014
 - Uniwersytet Pedagogiczny, Krakow, Poland, March 19, 2013
- Special effect varieties and the SHGH-conjecture
 - Jagiellonian University, Krakow, Poland, March 19, 2013
- Containment results for ideals of various configurations of points in \mathbb{P}^N
 - Dept. Of Mathematics, University of Trento, December 20, 2012
- Weakly-defective varieties and identifiable models
 - Dept. Of Mathematics, University of Nebraska, April 5 and 12, 2011
- Identifiability of Segre models
 - Dept. Of Mathematics, Colorado State University, March 22, 2011
- The effect of points fattening on postulation
 - Dept. Of Mathematics, Politecnico of Torino, March 10 2010
 - Dept. Of Mathematics, University of Roma 1, October 13 2009
- Comparing powers and symbolic powers of ideals
 - Dept. of Mathematics, KU-Leuven, June 4, 2009
 - Dept. Of Mathematics, University of Ferrara, May 10 2008
 - Dept. of Mathematics, University of Milano, October 11, 2007
 - Dept. of Mathematics, University of Trento, July 6, 2007
- New trends in Defectivity
 - Dept. of Mathematics, San Francisco State University, May 11, 2007
- Geometric and algebraic tools in Phylogenetics
 - Dept. of Mathematics, Univ. of Nebraska-Lincoln, April 18 - 25, 2007
- An introduction to Algebraic Statistics
 - Dept. of Mathematics, Colorado State University, April 5, 2007
- Secant varieties in Phylogenetics
 - Dept. of Mathematics, University of Firenze, May 28, 2009

- Dept. of Mathematics, University of Genova, May 25, 2009
- Dept. of Mathematics, Colorado State University, April 12, 2007
- Dept. of Mathematics, Politecnico di Torino, September 21, 2006
- Dept. of Mathematics, University of Milano, July 12, 2006
- Dept. of Mathematics, University of L'Aquila, May 17, 2006
- Dept. of Mathematics, University of Bologna, May 15, 2006
- Dept. of Mathematics, University of Firenze, May 5, 2006
- Triple points imposing triple divisors and defective hierarchy
 - Dept. of Mathematics, University of Oslo, October 17, 2005
 - Dept. of Mathematics, University of Bologna, May 16, 2005
- Tropical Geometry
 - Dept. of Mathematics, Colorado State University, March 10, 2005
- Tropical Mathematics with a view toward biology
 - Dept. of Mathematics, Politecnico di Torino, September 20, 2006
 - Dept. of Mathematics, Colorado State University, March 3, 2005
- Special linear systems and special effect varieties
 - Dept. of Mathematics, University of Trento, April 29, 2003
 - Dept. of Mathematics, Colorado State University, November 14, 2002
- A Construction for Gorenstein Ideals of any Codimension
 - Dept. of Mathematics, Univ. of Nebraska-Lincoln, February 2-3, 2005
 - Dept. of Mathematics, Colorado State University, November 7, 2002
- Families of Gorenstein Ideals
 - Dept. of Mathematics, Colorado State University, January 31, 2002
- Gorenstein schemes of codimension 3 (T.O.P.M.A.G.)
 - Dept. of Mathematics, University of Torino, April 27, 2001
- Applications of Algebraic Geometry to Cryptographic Construction
 - Dept. of Mathematics, University of Siena, January 8, 2001
- Gorenstein Points in \mathbb{P}^3
 - Dept. of Mathematics, University of Catania, June 22, 2000

Conferences attended:

- Dagstuhl Seminar 21171 “Temporal Graphs: Structure, Algorithms, Applications”, online, April 25-30, 2021.
- Mini-workshop “Asymptotic invariants of homogeneous ideals” Mathematisches Forschungsinstitut Oberwolfach, September 30 - October 10, 2018
- Workshop “Ordinary and symbolic powers of ideals”, CMO, Oaxaca (Mexico), May 14-19, 2017
- Mini Workshop “Ideals of Linear Subspaces, Their Symbolic Powers and Waring Problems”, Mathematisches Forschungsinstitut Oberwolfach, February 15-21, 2015
- Mini-workshop on linear systems and Okounkov bodies, Department of Mathematics, University of Padova, February 9-13, 2015
- Mini-workshop on Algebraic Geometry and its Applications, KIAS, Seoul, Korea, February 21, 2014
- Siam Conference in Applied Algebraic Geometry, Fort Collins (CO), USA, August 1-4, 2013

- Workshop on Algebraic Statistics, IST-Austria, September 28-30, 2012
- "Linear Series on Algebraic Surfaces", Mainz University, July 8-14, 2012
- G.T.M. Seminar: Genova Torino Milano: some topics in Commutative Algebra and Algebraic Geometry, University of Torino, June 28-29, 2012
- SIMAI -Young Researcher Workshop on Theoretical Approaches and Related Mathematical Methods in Biology and Medicine LAquila, December 1-2, 2011
- Conference on Tropical Geometry and Computational Biology, Saarbrcken, September 26-30, 2011
- School/Woprkshop on Tropical Geometry and Toric Variety, Trento, September 12-19, 2011
- KUMUNU 2011, University of Nebraska-Lincoln, April 2-3, 2011
- Mini-Workshop on Linear Series on Algebraic Varieties, Mathematischen Forschungsinstitut Oberwolfach, October 3-9, 2010.
- "Biophys 2010: Byology and Beyond", Arcidosso (Italy), September 9-11, 2010.
- Workshop on Seshadri Constants, UB-UPC, Barcelona, November 27-29, 2008.
- Multivariate Interpolation, its Relation To Algebraic Statistics, Classical Algebraic Geometry And Computational Complexity Theory - ESF Exploratory Workshop (PESC), Sestri Levante, Italy, October 16-19, 2007
- School/Workshop on "Geometry of Special Varieties", Trento, September 10-15, 2007
- Biophys 07: Biology and beyond, Arcidosso (Italy), September 3-5, 2007
- Algebraic Biology 2007, RISC, Castle of Hagenberg, Austria, July 2 - 4, 2007
- Algebraic Geometry: Applications in Biology, Dynamics, and Statistics - IMA, University of Minneapolis, March 5-9, 2007
- Algebraic Geometry, Optimization and Control - IMA, University of Minneapolis, January 16-20, 2007
- Biophys 06: Back to the Nature, Arcidosso (Italy), September 6-8, 2006
- Algebraic Statistics, Tropical Geometry and Computational Biology - Summer School in Nordfjordeid (Norway), June 17-21, 2006
- School/Workshop on Cremona Transformations - Politecnico of Torino, September 19-24, 2005
- School/Workshop on Computational Algebra for Algebraic Geometry and Statistics - Politecnico of Torino, September 6-11, 2004
- International School on Projective Algebraic Geometry - Anacapri, June 1-5, 2004
- School/Workshop on Polynomial Interpolation and Projective Embeddings - Politecnico of Torino, September 15-20, 2003
- Algebraic Surfaces - University of Trento, June 9-13, 2003
- School on Geometry of Space Curves - Politecnico of Torino, September 23-27, 2002
- School on Liaison Theory and Related Topics - Politecnico of Torino, October 1-5, 2001 International School of P.R.A.G.M.A.T.I.C.: Special Varieties and Related Topics - University of Catania, June 11-29, 2001

- Computational Algebraic Geometry - University of Roma 3, May 28 - June 1, 2001
- Topology of Varieties and Algebraic Applications - University of Trento, January 15-19, 2001
- Elliptic Curves, Finite Fields, Cryptography - Summer School in Nordfjordeid (Norway), August 7-11, 2000
- International School of P.R.A.G.M.A.T.I.C.: Rings in Commutative Algebra - University of Catania, June 7-23, 2000
- Galois Geometry and Generalized Polygons - University of Ghent, April 14 - 25, 1998

Reviewer Activities:

Reviewer for Zentralblatt MATH since 2007. Referee for many journals as Journal of Pure and Applied Algebra, Advances in Geometry, Rocky Mountains Journal of Mathematics, Canadian Journal of Mathematics.

Languages:

Italian	Native fluency
French	Good spoken and written competency
English	Good spoken and written competency

2004: Certificate in Advanced English (CAE), University of Cambridge (ESOL Examinations), level C1 for Council of Europe Common European Framework and level 2 for UK National Qualifications Frameworks

List of Publications

Refereed Full Papers

- 1 C. Bocci, G. Dalzotto, *Gorenstein Points in \mathbb{P}^3* , Rend. Sem. Mat. Univ. Pol. Torino, **59**(2) (2001), 155–164.
- 2 E. Ballico, C. Bocci, C. Fontanari, *Zero-dimensional schemes of ruled varieties*, *Central European Journal of Mathematics*, **2**(4) (2004), 538–560. doi: 10.2478/BF02475962
- 3 C. Bocci, R. Miranda, *Topics on interpolation problems in Algebraic Geometry*, Rend. Sem. Mat. Univ. Pol. Torino, **62**(4) (2004), 279–334.
- 4 E. Ballico, C. Bocci, E. Carlini, C. Fontanari, *Osculating spaces to secant varieties*, *Rendiconti del Circolo Matematico di Palermo*, **53**(2) (2004), 429–436. doi: 10.1007/BF02875735
- 5 C. Bocci, *Special effect varieties in higher dimension*, *Collectanea Mathematica*, **56**(3) (2005), 299–326.
- 6 C. Bocci, G. Dalzotto, R. Notari, M.L. Spreafico, *An iterative construction of Gorenstein ideals*, *Trans. Amer. Math. Soc.* **357** (2005), 1417–1444. doi: 10.1090/S0002-9947-04-03521-4
- 7 C. Bocci, P. Freguglia, *The geometric side for an axiomatic theory of Evolution*, *Rivista di Biologia/Biology Forum*, **99**(2) (2006), 307–326.
- 8 C. Bocci, *Algebraic and Geometric tools in Phylogenetics*, *Rivista di Biologia/Biology Forum*, **99**(3) (2006), 445–466.
- 9 C. Bocci, *Topics on Phylogenetic Algebraic Geometry*, *Expositiones Mathematicae*, **25**(3) (2007), 235–259. doi: 10.1016/j.exmath.2007.02.001
- 10 P. Freguglia, C. Bocci, *From Grassmannian legacy to the homography theory in the school of Peano*, *Mat. Soc. Cult. Riv. Unione Mat. Ital.* **1**(1) (2008), 131–164.
- 11 C. Bocci, L. Chiantini, *The cohomology of rank 2 bundles in \mathbb{P}^2* , *Rend. Sem. Mat. Univ. Pol. Torino*, **67**(1) (2009), 15–31.
- 12 C. Bocci, F. Cools, *A tropical interpretation of m -dissimilarity maps*, *Appl. Math. Comput.*, **212**(2) (2009), 349–356. doi: 10.1016/j.amc.2009.02.031
- 13 C. Bocci, B. Harbourne, *The resurgence of ideals of points and the containment problem*, *Proc. Amer. Math. Soc.* **138**(4) (2010), 1175–1190. doi: 10.1090/S0002-9939-09-10108-9
- 14 C. Bocci, *Special effect varieties and (-1) -curves*, *Rocky Mountains Journal of Mathematics*, **40** (2010), 397–419. doi: 10.1216/RMJ-2010-40-2-397
- 15 C. Bocci, B. Harbourne, *Comparing powers and symbolic powers of ideals*, *Journal of Algebraic Geometry* **19** (2010), 399–417. doi: <https://doi.org/10.1090/S1056-3911-09-00530-X>
- 16 C. Bocci, P. Freguglia, E. Rogora, *A Computer Model for a Theory of Evolution*, *Rivista di Biologia/Biology Forum*, **103**(2-3) (2010), 191–208.
- 17 C. Bocci, L. Chiantini, *The effect of points fattening on postulation*, *Journal of Pure and Applied Algebra*, **215**(1) (2011), 89–98. doi: 10.1016/j.jpaa.2010.04.010
- 18 C. Bocci, E. Carlini, F. Rapallo, *Perturbation of matrices and nonnegative rank with a view toward statistical models*, *SIAM, Journal of Matrix analysis and applications*, **32** (2011), 1500–1512. doi: 10.1137/110825455

- 19 A. Bazzani, C. Bocci, P. Freguglia, E. Rogora, *Il contributo di Giovanni Virgilio Schiaparelli allo studio matematico della Teoria dell'Evoluzione*, *La matematica nella società e nella cultura*, **1** (2011), 131–164.
- 20 C. Bocci, A. Korchmaros, *Tropical properties of alignment matrices*, *Advances and Applications in Discrete Mathematics*, **11**(1) (2013), 23–46.
- 21 C. Bocci, L. Chiantini *On the identifiability of Binary Segre Products*, *Journal of Algebraic Geometry*, **22** (2013), 1–11. doi: 10.1090/S1056-3911-2011-00592-4
- 22 C. Bocci, L. Chiantini, G. Ottaviani, *Refined methods for the identifiability of tensors*, *Ann. Mat. Pura Appl.* **193**(6) (2014), 1691–1702. doi: 10.1007/s10231-013-0352-8
- 23 C. Bocci, L. Chiantini, F. Rapallo, *Max-plus objects to study the complexity of graphs*, *Method. Comput. Appl. Prob.*, **16** (2014) 507–525. doi: 10.1007/s11009-012-9311-x
- 24 C. Bocci, S. Cooper, B. Harbourne, *Containment results for ideals of various configurations of points in \mathbb{P}^n* , *J. Pure Appl. Algebra*, **218**(1) (2014), 65–75. doi: 10.1016/j.jpaa.2013.04.012
- 25 C. Bocci, B. Franci, *Waldschmidt constants for Stanley-Reisner ideals of a class of polytopes*, *Journal of Algebra and its applications*, **15**(7) (2016), 1–13. doi: 10.1142/S0219498816501371
- 26 C. Bocci, S. Cooper, E. Guardo, B. Harbourne, M. Janssen, U. Nagel, A. Seceleanu, A. Van Tuyl, T. Vu, *The Waldschmidt constant for squarefree monomial ideals*, *Journal of Algebraic Combinatorics*, **44** (2016), 875–904. doi: 10.1007/s10801-016-0693-7
- 27 C. Bocci, E. Carlini, J. Kileel, *Hadamard Products of Linear Spaces*, *J. of Algebra* **448** (2016), 595–617. doi: 10.1016/j.jalgebra.2015.10.008
- 28 C. Bocci, G. Calussi, G. Fatabbi, A. Lorenzini, *On Hadamard product of linear varieties*, *Journal of Algebra and its applications*, **16**(8) (2017), 155–175. doi: 10.1142/S0219498817501559
- 29 C. Bocci, G. Calussi, G. Fatabbi, A. Lorenzini, *The Hilbert function of some Hadamard products*, *Coll. Mathematica*, **69**(2) (2018), 205–220. doi: 10.1007/s13348-017-0200-z
- 30 E. Angelini, C. Bocci, L. Chiantini, *Real identifiability vs complex identifiability*, *Linear and Multilinear Algebra*, **66**(6) (2018), 1257–1267. doi: 10.1080/03081087.2017.1347137
- 31 C. Bocci, F. Rapallo, *Exact tests to compare contingency tables under quasi independence and quasi symmetry*, *Journal of Algebraic Statistics*, **10**(1) (2019), 12–29. doi: 10.18409/jas.v10i1.65
- 32 C. Bocci, A. Fort, A. Pozzebon, D. Bertoni, *A geometrical approach for the measurement of the volume of masses of granular material through grid-layout sensor networks*, *Measurement*, **151** (2020). doi: 10.1016/j.measurement.2019.107102.
- 33 C. Bocci, C. Capresi, *Realization of distance matrices by unicyclic graphs*, *Rend. Semin. Mat. Univ. Politec. Torino* **79**(2) (2021), 55–76.
- 34 C. Bocci, E. Carlini, *Hadamard products of hypersurfaces*, *Journal of Pure and Applied Algebra*, **226**(11) (2022). doi: 10.1016/j.jpaa.2022.107078.

- 35 C. Bocci, C. Capresi, D. Carrucoli, *Gorenstein points in \mathbb{P}^3 via Hadamard products of projective varieties*, Coll. Mathematica (2022).
doi: 10.1007/s13348-022-00362-9
- 36 E. Angelini, C. Bocci, L. Chiantini, *Catalecticant intersections and confinement of decompositions of forms*, Journal of Symbolic Computation, 109 (2022) 220–237, doi: 10.1016/j.jsc.2020.07.0.
- 37 I.B. Jafarloo, C. Bocci, E. Guardo, G. Malara, *Hadamard Products of Sym-bolic Powers and Hadamard Fat Grids*. Mediterranean Journal of Mathematics, **20**(162) (2023). doi: 10.1007/s00009-023-02375-5

Contributions in Volumes

- 38 C. Bocci, E. Carlini, F. Rapallo, *Geometry of diagonal-effect models for contingency tables*, In: Marlos A. G. Viana; Henry P. Wynn. Algebraic Methods in Statistics and Probability II. Vol. 516, AMS-CONM series - Urbana Volume, AMS (2010), 61–74.

Contributions in Proceedings

- 39 C. Bocci, L. Chiantini, *Triple points imposing triple divisors and detective hierarchy*, in C. Ciliberto, A. V. Geramita, B. Harbourne, R. M. Miro-Roig, and K. Ranestad (Ed.), Projective Varieties with Unexpected Properties: a volume in Memory of Giuseppe Veronese; proceedings of the international conference 'Varieties with Unexpected Properties', Siena, Italy, June 8-13, 2004, Walter de Gruyter, 2005, 177–197. ISBN: 9783110181609.
- 40 T. Bauer, C. Bocci, S. Cooper, S. Di Rocco, M. Dumnicki, B. Harbourne, K. Jabbusch, A. L. Knutsen, A. Kuronya, R. Miranda, J. Roe, H. Schenck, T. Szemberg, Z. Teitler, *Recent developments and open problems in linear series*, In: P. Pragacz, Contributions to Algebraic Geometry. Banach Center, Bedlewo, vol. 6, (2012), p. 91–140, Beltz Bad Langensalza. ISBN: 9783037191149.
- 41 Bocci, C., Capresi, C., Meeks, K., Sylvester, J., *A New Temporal Interpretation of Cluster Editing*, 33rd International Workshop on Combinatorial Algorithms, IWOCA 2022, Lecture Notes in Computer Science, Vol. 13270 (2022), 214–227.
ISBN: 978-3-031-06677-1 doi: 10.1007/978-3-031-06678-8_16

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