

MARCO BURATTI

Curriculum Vitae

ai fini della pubblicazione

Place: Rome

Date: November 10, 2021

Education

Degree	Date	Institution	Mark
Master degree in Mathematics	July 17, 1985	Istituto Matematico Guido Castelnuovo Università “La Sapienza” di Roma	Summa cum Laude

Appointments

1. Academic appointments

From	To	Institution	Position
Feb 6 2006	Current	Università degli Studi di Perugia	Full Professor of Geometry
Jan 11 1999	Feb 5 2006	Università degli Studi di Perugia	Associate Professor of Geometry
Nov 4 1991	Jan 10 1999	Università degli Studi de L’Aquila	Assistant Professor of Geometry

2. Editorial work

From	To	Journal	Position
June 2021	Current	Ars Mathematica Contemporanea	Member of the Editorial Board
Feb 2021	Current	Journal of Combinatorial Theory Series A	Member of the Editorial Board
Sept 2017	Current	Designs, Codes and Cryptography	Member of the Editorial Board
June 2017	Current	The Art of Discrete and Applied Mathematics	Member of the Editorial Board
Jan 2016	Current	Bulletin of the Institute of Combinatorics and its Applications	Editor in Chief
Mar 2013	Current	Discrete Mathematics	Associate Editor
Dec 1999	Current	Journal of Combinatorial Designs	Member of the Editorial Board

Editor (with Curt Lindner, Francesco Mazzocca and Nicola Melone) of the 28th volume “Recent Results in Designs and Graphs. *A Tribute to Lucia Gionfriddo*” of *Quaderni di Matematica* (published by Aracne Editrice in 2013).

3. Other appointments

From	To	Institution	Position
Sept 18 2005	Current	“Il Sole 24 Ore” (Italy’s leading economic newspaper)	Collaborator
Sept 1 1987	Nov 3 1991	Liceo Scientifico “Ettore Majorana” Guidonia (Roma)	Tenured Math teacher

Speaker at Conferences/Workshops

Summary of contributed talks

Type	Number	Where
Plenary Lectures	30	In 12 different countries
Invited Talks	10	In 7 different countries
Ordinary Talks	38	In 15 different countries
Total	78	In 22 different countries

A selection of Plenary Lectures

Date	Place	Conference	Title
July 12–16 2021	Rijeka Croatia (online)	Combinatorial Designs and Codes satellite conference of 8ECM	Tales from my diary of symmetries
Nov 8–9 2019	Paderborn University Germany	Colloquium on Combinatorics	A feast of combinatorial designs
June 23–29 2019	Bled Slovenia	9th Slovenian International Conference on Graph Theory	Cyclic designs: some selected topics
Oct 15–18 2018	Linz Austria	Pseudo-randomness and Finite Fields	Tiling rings with “precious” differences
July 14–16 2018	Nanyang Technological University Singapore	Conference on Combinatorics and its Applications in celebration of Charlie Colbourn’s 65 th birthday	Digging for “precious” differences
June 13–17 2016	Koç University Istanbul Turkey	3rd Istanbul Design Theory Graph Theory and Combinatorics	Differences may still make the difference
Aug 8–12 2014	Beijing Jiaotong University China	International Conference on Combinatorics and Graphs Combinatorics Satellite conference of ICM2014	On graphs with prescribed chromatic sequence
Nov 29–30 2012	Krakow Poland	The 21th Workshop “3in1” 2012	Hamiltonian cycle systems with a nice automorphism group
Sept 9–15 2012	Perugia Italy	Combinatorics 2012	Concerning the automorphism group of some combinatorial designs
Nov 17–20 2009	Matsumoto Japan	Algebraic Combinatorics and related groups and algebras	Combinatorial designs via factorizations of groups into subsets

I have given many seminars in many universities.

Teaching Experience

1. Degree courses

From	To	Institution	Subject
2021	current	Department of Mathematics Università di Perugia	Combinatorics
2018	current	Department of Mathematics Università di Perugia	Geometria I
1999	current	Faculty of Engineering Università di Perugia	Geometria
2016	2018	Department of Chemistry Università di Perugia	Matematica I
2012	2017	Department of Mathematics Università di Perugia	Algebra I
2011	2015	Faculty of Engineering Università di Perugia	Metodi Matematici dell'Informazione
2010	2011	Faculty of Engineering Università Roma 3	Geometria
2009	2011	Faculty of Engineering Università di Perugia	Metodi Algebrici dell'Informazione
2008	2009	Faculty of Engineering Roma Sapienza	Geometria
2004	2005	Scienze della Formazione Università di Perugia	Matematica
1999	2008	Faculty of Engineering Università di Perugia	Geometria e Algebra
1991	1999	Faculty of Engineering Università de L'Aquila	Geometria e Algebra

2. PhD courses

Year	Institution	Subject
2009	Department Me.Mo.Mat. Università Sapienza di Roma	Disegni Combinatorici
2006	Department of Mathematics Università di Perugia	Teoria dei Disegni e Grafi
2000	Department of Mathematics Università di Firenze	Teoria dei Disegni Combinatorici

3. Summer Schools

Date	Place	Summer School	Lecture/Course
July 26 2017	Rogla Slovenia	7th PhD Summer School in Discrete Mathematics	Help make a difference (lecture)
July 9–16 2000	S. Felice del Benaco (Bs), Italy	Summer School “Giuseppe Tallini”	Difference methods in design theory (course)

PhD Students

Name	Years	PhD Thesis	Current Position
Simone Costa	2013–2016	New combinatorial designs via strong difference families	Assistant Professor of Geometry University of Brescia
Emanuele Brugnoli	2013–2016	Graph decompositions via integer compositions	Senior Data Scientists at Agicom
Tommaso Traetta	2006–2010	Factorizations of the Complete Graph and the Oberwolfach Problem	Assistant Professor of Geometry University of Brescia
Anita Pasotti	2005–2006	Graph decompositions with a sharply vertex transitive automorphism group	Associate Professor of Geometry University of Brescia

Organization

Period	Place	Event	Role
June 20–26 2021	Portoroz Slovenia	8th European Congress of Mathematics Minisymposium MS-16 Combinatorial Designs	Organizer
June 3–9 2018	Arco (Tn) Italy	Combinatorics 2018	Member of the Scientific Committee
Feb 1–2 2018	Roma Italy	Discretaly a workshop in Discrete Math	Main Organizer
May 24 – June 4 2016	Maratea (Pz) Italy	Combinatorics 2016	Member of the Scientific Committee
Sept 7–12 2015	Siena Italy	XX Congresso UMI Sezione S15 Combinatoria	Coordinator

2009 and 2012: Member of the Academic Board of the PhD in “Matematica e Informatica per il trattamento dell’informazione e della conoscenza” at the University of Perugia.

From 2003 to 2008: Member of the Academic Board of the PhD in “Matematica e Informatica per l’elaborazione e la rappresentazione dell’informazione e della conoscenza” at the University of Perugia.

I have been in the selection committee for the hiring of several academic positions: Assistant Professor of type A at the Universities of Roma and Padova; Assistant Professor of type B at the Universities of Brescia and Modena–Reggio Emilia; Associate Professor at the Universities of Brescia, Caserta, L’Aquila, Milano Bicocca, Napoli, Palermo, Pisa, Perugia, Potenza (two times), and Verona; Full Professor at the University of Perugia.

I have participated at various organizational activities for my department as, for instance, the local coordinator for the National Research Exercise (VQR) 2011–2014.

Since June 2016 I am the national coordinator of the Italian research group related to the International biennial conference “Combinatorics”.

Society memberships, Awards and Honors

Year	Title
2020–current	Honorary Member of the <i>Slovenian Discrete and Applied Mathematics Society</i>
2010–current	Council Member of the <i>Institute of Combinatorics and its Applications</i>
1998	Hall Medal of the <i>Institute of Combinatorics and its Applications</i> (For outstanding contributions in Combinatorics and its Applications)
1994–current	Fellow of the <i>Institute of Combinatorics and its Applications</i>
1992–current	Member of G.N.S.A.G.A Gruppo Nazionale per le Strutture Algebriche, Geometriche e Loro Applicazioni

Research Activity

Keywords	Brief description
Combinatorial Designs; Codes; Groups; Finite Fields; Difference Methods	The core of my research is the existence and construction of discrete structures with many symmetries, i.e., with a rich automorphism group. In my research I developed an algebraic method known as the “method of differences” inventing many variants of it as, for instance, <i>difference families relative to a partial spread of a group</i> and the method of <i>partial differences</i> . This is a powerful tool which allowed me to find more elegant (because highly symmetric) solutions of some problems already solved in the past as, for instance, the existence of a $(2n + 1)$ -cycle decomposition of a complete graph for every n . More importantly, in some cases it allowed me to find combinatorial designs whose existence was in doubt as, for instance, a resolvable $2 - (45, 5, 2)$ design. The most remarkable results are about cyclic 2-designs, resolvable 2-designs, and cycle decompositions of the complete graph.

Scientific Visits

Period	University	Invited by
May 2017	Zhejiang University, Hangzhou, China	Prof. Tao Feng
July 2016	Nanjing Normal University, Nanjing, China	Prof. Haitao Cao
July 2016	Jiangnan University, Wuxi, China	Prof. Chengmin Wang
May 2015	Primorska University, Koper, Slovenia	Prof. Klavdija Kutnar
Aug 2014	Guangxi Normal University, Guilin, China	Prof. Dianhua Wu
June 2012	Soochow University, Suzhou, China	Prof. Jianxing Yin
May 2011	Jiao Tong University, Shanghai, China	Prof. Xiaodong Zhang
Nov 2009	Kindai University, Osaka (Japan)	Prof. Nobuo Nakagawa

Reviewer activity

27 Journals (multiple times)	Adv. Math. Commun.; Ars Math. Contemp.; Acta Sci. Math. (Szeged); Appl. Algebra Engrg. Comm. Comput.; Ars Combin.; Australas. J. Combin.; Bull. Inst. Combin. Appl.; Combinatorica; Cryptogr. Commun.; Des. Codes Cryptogr.; Discrete Appl. Math.; Discrete Math.; Discuss. Math. Graph Theory; Electron. J. Combin.; European J. Combin.; Examples and Counterexamples; Finite Fields Appl.; Front. Math. China; Graphs Combin.; IEEE Trans. Inform. Theory; Internat. J. Found. Comput. Sci.; Algebraic combin.; Appl. Math. Comput.; J. Combin. Des.; J. Combin. Theory Ser. A; SIAM J. Discrete Math.; Util. Math.
7 Research Funding Organizations (multiple times)	ARRS The Slovenian Research Agency BIRS The Banff International Research Station (Canada) FWO The Research Foundation Flanders (Belgium) HRZZ The Croatian Science Foundation Koç University (Istanbul) Nanyang Technological University (Singapore) NSERC Natural Sciences and Engineering Research Council of Canada

Research Projects

Years	Title	Role
1997	Strutture geometriche, combinatorica e loro applicazioni (PI Francesco Mazzocca)	Participant
1999, 2001, 2003, 2005, 2012	Strutture geometriche, combinatorica e loro applicazioni (PI Guglielmo Lunardon)	Participant
2008	Disegni Combinatorici, grafi e loro applicazioni (PI Mario Gionfriddo)	Participant
2014	COST action IC1104: Random Network Coding and Designs over GF(q) (PI Marcus Greferath)	Participant

Summary of scientific achievements

Product type	Number	Data base	Start	End
International papers	99	87 on Scopus	1988	2021
Scientific Book Chapters	5	1 on Scopus	2006	2019

Total Impact Factor	39.18
Total Citations	1525
Average Citations per Product*	$\frac{1525}{(87+1)} = 17.3295$
Hirsch (H) index	23
Normalized H index**	$\frac{23}{(2021-1988)} = 0.69697$

* The total number of citations on Scopus divided by the number of products on Scopus.

** The h-index divided by the number of years since my very first publication (1988).

Selected Publications

[S1]	Author	M. Buratti
	Title	On disjoint $(v, k, k - 1)$ difference families
	Reference Data	Designs, Codes and Cryptography 87 (2019), 745–755
	IF	1.524
	Citations	11

[S2]	Author	M. Buratti
	Title	Hadamard partitioned difference families and their descendants
	Reference Data	Cryptography and Communications 11 (2019), 557–562
	IF	1.291
	Citations	8

[S3]	Authors	S. Bonvicini and M. Buratti
	Title	Octahedral, dicyclic and special linear solutions of some Hamilton-Waterloo problems
	Reference Data	Ars Mathematica Contemporanea 14 (2018), 1–14
	IF	0.910
	Citations	8
	Press/media release	For this paper, Simona Bonvicini has been awarded the “Petra Sparl Award 2020”. This prize recognizes the best paper published in the previous five years by a young woman mathematician in one of the two journals “Ars Mathematica Contemporanea” and “The Art of Discrete and Applied Mathematics”.

[S4]	Authors	M. Buratti, H. Cao, D. Dai and T. Traetta
	Title	A complete solution to the existence of (k, λ) -cycle frames of type g^u
	Reference Data	Journal of Combinatorial Designs 25 (2017), 197-230
	IF	0.647
	Citations	12

[S5]	Authors	M. Buratti, Y. Wei, D. Wu, P. Fan and M. Cheng
	Title	Relative difference families with variable block sizes and their related OOCs
	Reference Data	IEEE Transactions on Information Theory 57 (2011), 7489–7497
	IF	3.009
	Citations	34

[S6]	Authors	M. Buratti and A. Pasotti
	Title	Further progress on difference families with block size 4 or 5
	Reference Data	Designs, Codes and Cryptography 56 (2010), 1–20
	IF	0.771
	Citations	42

[S7]	Authors	M. Buratti and A. Pasotti
	Title	Combinatorial designs and the theorem of Weil on multiplicative character sums
	Reference Data	Finite Fields and their Applications 15 (2009), 332–344
	IF	0.779
	Citations	47
[S8]	Authors	M. Buratti and G. Rinaldi
	Title	On sharply vertex transitive 2-factorizations of the complete graph
	Reference Data	Journal of Combinatorial Theory Series A 111 (2005), 245–256
	IF	0.576
	Citations	30
[S9]	Authors	R.J.R. Abel and M. Buratti
	Title	Some progress on $(v, 4, 1)$ difference families and optical orthogonal codes
	Reference Data	Journal of Combinatorial Theory Series A 106 (2004), 59–75
	IF	0.485
	Citations	99
[S10]	Author	M. Buratti
	Title	Rotational k -cycle systems of order $v < 3k$; another proof of the existence of odd cycle systems
	Reference Data	Journal of Combinatorial Designs 11 (2003), 433–441
	IF	0.541
	Citations	33
[S11]	Authors	M. Buratti and A. Del Fra
	Title	Existence of cyclic k -cycle systems of the complete graph;
	Reference Data	Discrete Mathematics 261 (2003), 113–125
	IF	0.303
	Citations	59
[S12]	Author	M. Buratti
	Title	Cyclic designs with block size 4 and related optimal optical orthogonal codes
	Reference Data	Designs, Codes and Cryptography 26 (2002), 111–125
	IF	0.500
	Citations	102
[S13]	Author	M. Buratti
	Title	Abelian 1-factorizations of the complete graph
	Reference Data	European Journal of Combinatorics 22 (2001), 291–295
	IF	0.335
	Citations	24

[S14]	Author	M. Buratti
	Title	Old and new designs via difference multisets and strong difference families
	Reference Data	Journal of Combinatorial Designs 7 (1999), 406–425
	IF	0.600
	Citations	41
[S15]	Author	M. Buratti
	Title	Recursive constructions for difference matrices and relative difference families
	Reference Data	Journal of Combinatorial Designs 6 (1998), 165–182
	IF	0.270
	Citations	85

Complete list of Publications (in reverse chronological order)

- [●] = publications without IF since too recent 7 products
- [●] = publications not indexed by Scopus 15 products
- [●] = publications indexed by Scopus with unavailable IF 22 products
- [●] = publications indexed by Scopus with IF 60 products

The **IFs** are according to JCR and relative to the publication year.

The **citations** are according to Scopus. The **citations** are according to Math Sci Net.

[99] M. Buratti, D. Jungnickel, *Partitioned difference families: The storm has not yet passed*, Adv. Math. Commun. <https://www.aims sciences.org/article/doi/10.3934/amc.2021030>

[98] S. Bonvicini, M. Buratti, M. Garonzi, G. Rinaldi, T. Traetta, *The first families of highly symmetric Kirkman Triple Systems whose orders fill a congruence class*, to appear in Designs, Codes and Cryptography.

[97] F. Salassa, G. Dragotto, T. Traetta, Marco Buratti, F. Della Croce, *Merging Combinatorial Design and Optimization: the Oberwolfach Problem*, Australas. J. Combin. **79** (2021), 141–166.

[Citations 2](#)

[96] M. Buratti, A. Nakic and A. Wassermann, *Graph decompositions over projective geometries*, J. Combin. Des. **29** (2021), 149–174.

[Citations 2](#)

[95] M. Buratti, D.R. Stinson, *On Resolvable Golomb Rulers, Symmetric Configurations and Progressive Dinner Parties*, to appear in Journal of Algebraic Combinatorics.

[94] M. Buratti and D.R. Stinson, *New Results on Modular Golomb Rulers, Optical Orthogonal Codes and Related Structures*, Ars. Math. Contemp. **20** (2021), 1–27.

[Citations 2](#)

[93] M. Buratti, A. Pasotti and T. Traetta, *A reduction of the spectrum problem for odd sun systems and the prime case*, J. Combin. Des. **29** (2021), 5–37.

[Citations 1](#)

- [92] M. Buratti and D. Jungnickel, *Partitioned difference families versus Zero difference balanced functions*, Des. Codes Cryptogr. **87** (2019), 2461–2467.
 IF 1.524; Citations 1
- [91] M. Buratti, *Hadamard partitioned difference families and their descendants*, Cryptography and Communications **11** (2019), 557–562.
 IF 1.291; Citations 8
- [90] M. Buratti and A. Nakic, *Designs over finite fields by difference methods*, Finite Fields Appl. **57** (2019), 128–138.
 IF 1.478; Citations 2
- [89] M. Buratti and F. Merola, *Fano Kaleidoscopes and their generalizations*, Des. Codes Cryptogr. **87** (2019), 769–784.
 IF 1.524; Citations 0
- [88] M. Buratti, *On disjoint $(v, k, k - 1)$ difference families*, Des. Codes Cryptogr. **87** (2019), 745–755.
 IF 1.524; Citations 11
- [87] M. Buratti, *On silver and golden optical orthogonal codes*, Art Discrete Appl. Math. **1** (2018), #P2.02
 Citations 3
- [86] M. Buratti and A. Wassermann, *On decomposability of cyclic triple systems*, Australas. J. Combin. **71** (2018), 184–195.
 Citations 2
- [85] S. Bonvicini and M. Buratti, *Octahedral, dicyclic and special linear solutions of some Hamilton-Waterloo problems*, Ars Math. Contemp. **14** (2018), 1–14.
 IF 0.910; Citations 8
- [84] M. Buratti, H. Cao, D. Dai and T. Traetta, *A complete solution to the existence of (k, λ) -cycle frames of type g^u* , J. Combin. Des. **25** (2017), 197–230.
 IF 0.647; Citations 12
- [83] M. Buratti, G. Rinaldi and T. Traetta, *3-pyramidal Steiner triple systems*, Ars Math. Contemp. **13** (2017), 95–106.
 IF 0.793; Citations 4
- [82] M. Buratti, S. Costa and X. Wang, *New i -perfect cycle decompositions via vertex colorings of graphs*, J. Combin. Des. **24** (2016), 495–513.
 IF 0.701; Citations 3
- [81] M. Buratti and P. Danziger, *A cyclic solution for an infinite class of Hamilton-Waterloo problems*, Graphs Combin. **32** (2016), 521–531.
 IF 0.441; Citations 14
- [80] M. Buratti, G.J. Lovegrove and T. Traetta, *On the full automorphism group of a Hamiltonian cycle system of odd order*, Graphs Combin. **31** (2015), 1855–1865.
 IF 0.480; Citations 1

- [79] M. Buratti and T. Traetta, *The structure of 2-pyramidal 2-factorizations*, Graphs Combin. **31** (2015), 523–535.
IF 0.480; Citations 5
- [78] R.A. Bailey, M. Buratti, G. Rinaldi and T. Traetta, *On 2-pyramidal Hamiltonian cycle systems*, Bull. Belg. Math. Soc. Simon Stevin **21** (2014), 747–758.
IF 0.444; Citations 6
- [77] M. Buratti and F. Merola, *Hamiltonian cycle systems which are both cyclic and symmetric*, J. Combin. Des. **22** (2014), 367–390.
IF 0.657; Citations 12
- [76] M. Buratti, G. Rinaldi and T. Traetta, *Some results on 1-rotational Hamiltonian cycle systems*, J. Combin. Des. **22** (2014), 231–251.
IF 0.657; Citations 17
- [75] M. Buratti, S. Capparelli, F. Merola, G. Rinaldi and T. Traetta, *A collection of results on Hamiltonian cycle systems with a nice automorphism group*, Electronic Notes in Discrete Mathematics **40** (2013) 245–252.
Citations 5
- [74] E. Brugnoli and M. Buratti, *New designs by changing ... the signs*, Electronic Notes in Discrete Mathematics **40** (2013) 49–52.
Citations 3
- [73] M. Buratti, A. Pasotti and D. Wu, *On optimal $(v, 5, 2, 1)$ optical orthogonal codes*, Des. Codes Cryptogr. **68** (2013), 349–371.
IF 0.730; Citations 14
- [72] M. Buratti and F. Merola, *Dihedral Hamiltonian cycle systems of the cocktail party graph*, J. Combin. Des. **21** (2013), 1–23.
IF 0.493; Citations 16
- [71] M. Buratti and T. Traetta, *2-starters, graceful labelings, and a doubling construction for the Oberwolfach Problem*, J. Combin. Des. **20** (2012), 483–503. IF 0.687
IF 0.687; Citations 15
- [70] S. Bonvicini, M. Buratti, G. Rinaldi and T. Traetta, *Some progress on 1-rotational Steiner triple systems*, Des. Codes Cryptogr. **62** (2012), 63–78.
IF 0.779; Citations 13
- [69] M. Buratti, Y. Wei, D. Wu, P. Fan and M. Cheng, *Relative difference families with variable block sizes and their related OOCs*, IEEE Trans. Inform. Theory, **57** (2011), 7489–7497.
IF 3.009; Citations 34
- [68] M. Buratti, K. Momihara and A. Pasotti, *New results on optimal $(v, 4, 2, 1)$ optical orthogonal codes*, Des. Codes Cryptogr. **58** (2011), 89–109.
IF 0.875; Citations 23

- [67] M. Buratti, J. Yan and C. Wang, *From a 1-rotational RBIBD to a partitioned difference family*, Electronic J. Combin. **17** (2010), #R139.
IF 0.626; Citations 15
- [66] M. Buratti and D. Ghinelli, *On disjoint $(3t, 3, 1)$ cyclic difference families*, J. Statist. Plann. Inference **140** (2010), 1918–1922.
IF 0.691; Citations 6
- [65] M. Buratti, S. Capparelli and A. Del Fra, *Cyclic Hamiltonian cycle systems of the λ -fold complete and cocktail party graphs*, European J. Combin. **31** (2010), 1484–1496.
IF 0.716; Citations 8
- [64] M. Buratti and A. Pasotti, *Further progress on difference families with block size 4 or 5*, Des. Codes Cryptogr. **56** (2010), 1–20.
IF 0.771; Citations 42
- [63] M. Buratti and A. Pasotti, *Combinatorial designs and the theorem of Weil on multiplicative character sums*, Finite Fields Appl. **15** (2009), 332–344.
IF 0.779; Citations 47
- [62] M. Buratti and G. Rinaldi, *A non-existence result on cyclic cycle-decompositions of the cocktail party graph*, Discrete Math. **309** (2009), 4722–4726.
IF 0.548; Citations 16
- [61] K. Momihara and M. Buratti, *Bounds and constructions of optimal $(n, 4, 2, 1)$ optical orthogonal codes*, IEEE Trans. Inform. Theory **55** (2009), 514–523.
IF 2.357; Citations 28
- [60] M. Buratti, A. Bonisoli and G. Rinaldi, *Sharply transitive decompositions of complete graphs into generalized Petersen graphs*, Innov. Incidence Geom. **6/7** (2009), 95–109.
Citations 5
- [59] S.L. Wu and M. Buratti, *A complete solution to the existence problem for 1-rotational k -cycle systems of K_v* , J. Combin. Des. **17** (2009), 283–293.
IF 0.709; Citations 11
- [58] M. Buratti and A. Pasotti, *On perfect Γ -decompositions of the complete graph*, J. Combin. Des. **17** (2009), 197–209.
IF 0.709; Citations 11
- [57] M. Buratti and L. Gionfriddo, *Strong difference families over arbitrary groups*, J. Combin. Des. **16** (2008), 443–461.
IF 0.456; Citations 28
- [56] M. Buratti and G. Rinaldi, *1-rotational k -factorizations of the complete graph and new solutions to the Oberwolfach problem*, J. Combin. Des. **16** (2008), 87–100.
IF 0.456; Citations 28
- [55] M. Buratti and N.J. Finizio, *Existence results for 1-rotational resolvable Steiner 2-designs with block size 6 or 8*, Bull. Inst. Combin. Appl. **50** (2007), 29–44.
Citations 5

- [54] M. Buratti, N.J. Finizio, M. Greig and B.J. Travers, *Z-cyclic $(t, 8)GWhD(v)$, $t = 2, 4$* , Util. Math. **72** (2007), 125–138.
 IF 0.262; Citations 1
- [53] A. Bonisoli, M. Buratti and G. Mazzuocolo, *Doubly transitive 2-factorizations*, J. Combin. Des. **15** (2007), 120–132.
 IF 0.355; Citations 19
- [52] M. Buratti and A. Pasotti, *Graph decompositions with the use of difference matrices*, Bull. Inst. Combin. Appl. **47** (2006), 23–32.
 Citations 21
- [51] M. Buratti, F. Rania and F. Zuanni, *Some constructions for cyclic perfect cycle systems*, Discrete Math. **299** (2005), 33–48.
 IF 0.346; Citations 21
- [50] M. Buratti and G. Rinaldi, *On sharply vertex transitive 2-factorizations of the complete graph*, J. Combin. Theory Ser. A **111** (2005), 245–256.
 IF 0.576; Citations 30
- [49] M. Buratti, *Cycle decompositions with a sharply vertex transitive automorphism group*, Matematiche (Catania) **59** (2004), 91–105.
 Citations 20
- [48] M. Buratti and A. Del Fra, *Cyclic Hamiltonian cycle systems of the complete graph*. Discrete Math. **279** (2004), 107–119.
 IF 0.374; Citations 46
- [47] R.J.R. Abel and M. Buratti, *Some progress on $(v, 4, 1)$ difference families and optical orthogonal codes*, J. Combin. Theory Ser. A **106** (2004), 59–75.
 IF 0.485; Citations 99
- [46] M. Buratti, *Existence of 1-rotational k -cycle systems of the complete graph*, Graphs Combin. **20** (2004), 41–46.
 IF 0.235; Citations 15
- [45] M. Buratti and A. Del Fra, *Semi-Boolean Steiner quadruple systems and dimensional dual hyperovals*, Adv. Geom. (2003), suppl., S254–S270.
 Citations 14
- [44] M. Buratti, *Rotational k -cycle systems of order $v < 3k$; another proof of the existence of odd cycle systems*, J. Combin. Des. **11** (2003), 433–441.
 IF 0.541; Citations 33
- [43] M. Buratti and A. Del Fra, *A lower bound on the number of semi-Boolean quadruple systems*, J. Combin. Des. **11** (2003), 229–239.
 IF 0.541; Citations 2
- [42] M. Buratti and A. Del Fra, *Existence of cyclic k -cycle systems of the complete graph*, Discrete Math. **261** (2003), 113–125.
 IF 0.303; Citations 59

- [41] M. Buratti, *Constructions for resolved designs by difference methods*, 6th Workshop on Combinatorics (Messina, 2002). Rend. Sem. Mat. Messina Ser. II 8(24) (2001/02), suppl., 19–28.
- [40] M. Buratti, *Cyclic designs with block size 4 and related optimal optical orthogonal codes*, Des. Codes Cryptogr. **26** (2002), 111–125.
IF 0.500; Citations 102
- [39] M. Buratti, M. Gionfriddo, L. Milazzo and V. Voloshin, *Lower and upper chromatic numbers for BSTSs($2^h - 1$)*, Computer Sci. J. Moldova **9** (2001), 259–272.
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