

CURRICULUM VITAE

David W. Mauro

Affiliation

Department of Mathematics
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Education

M.S. Computer Science	Rensselaer Polytechnic Institute (Hartford campus), 1988
Ph.D. Mathematics	State University of New York at Binghamton, 1982
M.S. Mathematics	State University of New York at Binghamton, 1978
B.S. Mathematics	Bates College, 1976

Appointments

2017-2019	Chair, Department of Mathematics
1996 -	Professor, Department of Mathematics, Trinity College
1990-1996	Associate Professor and Chair, Department of Mathematics, Trinity College
1987-1988	Acting Chair, Department of Mathematics, Trinity College
1986-1990	Assistant Professor, Department of Mathematics, Trinity College
1982-1986	Visiting Assistant Professor of Mathematics, Trinity College
1981-1982	Lecturer, State University of New York at Binghamton

Scholarly Work

On a distance-constrained graph labeling to model cooperation
(with John Georges, Kirsti Kuenzel, and Sebastian Skardal), *Discrete Applied Math.* Vol. 306 (2022) 17-31.

On the zero-sum group-magicness of cartesian products
(with Adam Fong, John Georges, Dylan Spagnuolo, John Wallace, Shufan Wang, Kirsti Wash),
Involve Vol. 12 (2019) 1261-1278.

On zero-sum \mathbb{Z}_{2j}^k -magic graphs,
(with John Georges and Kirsti Wash), *Journal of Comb. Optimization* August 2016 (electronic)

On a pursuit-evasion model without instantaneous movement,
(with Jeong-Ok Choi and John Georges), *The Australasian Journal of Combinatorics* 64(3) (2016) 392-419.

The domination number of K_n^3 ,
(with John Georges and Jianwei Lin), *Discussiones Mathematicae Graph Theory* 34 (2014) 629-632.

On zero-sum \mathcal{Z}_k -magic labelings of 3-regular graphs,
(with John Georges and Jeong-Ok Choi), *Graphs and Combinatorics*, 29 (2013), 387-398.

On real number labelings and graph invertibility,
(with John Georges, Jeong-Ok Choi and Yan Wang), *Discrete Applied Mathematics.* 160 (2012) 2116-2130.

Relating edge coverings to the classification of \mathcal{Z}_k -magic graphs,
(with John Georges and Jeong-Ok Choi), *Discrete Mathematics.* 312 (2012) 2938-2945.

- On the structures of V_4 and Z_4 -magic graphs,
 (with John Georges and Yan Wang), *JCMCC*. 75 (2010) 137-152.
- Some Results on r-paths Labeled with a Condition at Distance Two,
 (with John Georges, Kalin Gochev, and Yan Wang), *Congressus Numerantium* (2009) v. 198, p. 95 - 109
- Labeling the r-path with a Condition at Distance Two,
 (with John Georges and Yan Wang), *Discrete Applied Mathematics* (2009) v. 157, p. 3203 - 3215
- On the Structure of Graphs with Non-Surjective $L(2,1)$ -labelings
 (with J. Georges), *SIAM Journal on Discrete Mathematics* (2005) v. 19, p. 208 - 223
- A Note on Collections of Graphs with Non-Surjective Lambda Labelings
 (with J. Georges), *Discrete Applied Mathematics* (2005) v. 146, p. 92 - 98
- On Labeling the Products of Complete Graphs with Distance Constraints
 (with J. Georges and D. Erwin), *Naval Research Logistics* (2005) v. 52, #2, p. 138 - 141
- Edge Labelings with a Condition at Distance Two (with J. Georges),
Ars Combinatoria (2004) v. 70, p. 109-128
- On Regular Graphs Optimally Labeled with a Condition at Distance Two (with J. Georges),
S.I.A.M. Journal on Discrete Mathematics (2003) v. 17, p. 320 - 331
- Labeling Trees with a Condition at Distance Two (with J. Georges),
Discrete Mathematics (2003) v. 269, p.127-148
- On Generalized Petersen Graphs Labeled with a Condition at Distance Two (with J. Georges),
Discrete Mathematics (2002) v. 259, p.311-318
- Labeling Products of Complete Graphs with a Condition at Distance Two
 (with J. Georges and M. Stein), *S.I.A.M. Journal on Discrete Mathematics* (2001) v.14, p.28-35
- Some Results on the λ_k^j -Numbers of Products of Complete Graphs (with J. Georges),
Congressus Numerantium (1999) v. 140, p.141-160
- On the Size of Graphs Labeled with a Condition at Distance Two (with J. Georges),
Journal of Graph Theory (1996) v. 22, p.47-57
- On the λ -Number of Q_n and Related Graphs (with M. Whittlesey and J. Georges),
S.I.A.M. Journal on Discrete Mathematics (1995) v.8, p.499-506
- Generalized Vertex Labelings with a Condition at Distance Two (with J. Georges),
Congressus Numerantium (1995) v. 109, p.141-160
- On the Criticality of Graphs Labeled with a Condition at Distance Two (with J. Georges),
Congressus Numerantium (1994) v. 101, p.33-49
- Relating Path Coverings to Vertex Labelings with a Condition at Distance Two (with J. Georges
 and M. Whittlesey), *Discrete Mathematics* (1994) v. 135, p.103-111
- Derived Linear Systems of Context-Free Grammars,
Journal of Theoretical Computer Science (1991) v. 83, p.189-203
- A Combinatoric Approach to the Kaplan-Meier Estimator,
Annals of Statistics (1985) v. 13, p.142-149
- A Note on the Consistency of the Kaplan-Meier Least Squares Estimators,
Biometrika (1983) v. 70, p. 534-535

Presentations

- 2016 Bridge courses for undergraduates – what may be missing, delivered at the winter meeting of the A.M.S., January 7, Seattle.
- 2015 On a pursuit-evasion model without instantaneous movement, delivered at the winter meeting of the A.M.S., January 11, San Antonio.
- 2012 Zero-sum Z_k -magic labelings of 3-regular graphs, delivered at the 43rd Southeastern International Conference on Combinatorics, Graph Theory and Computing, Florida Atlantic University, March 5 - 9
- 2012 On real-number labelings and graph invertibility, delivered at the winter meeting of the A.M.S., January 5, Boston.
- 2009 On labeling the r-path with a Condition at Distance Two, delivered at the winter meeting of the A.M.S., January 8, Washington D.C.
- 2007 On Graphs with Optimal $L(2,1)$ -Labelings Having Δ Holes, delivered at the Annual Summer Meeting of the MAA, San Jose, Aug. 4
- 1996 On the Generalized λ -Number of r -Paths and Related Graphs, delivered at the 22nd CoNE Combinatorics and Graph Theory Conference, Smith College, Dec. 7

- 1996 On the Generalized λ -Number of r -Paths, delivered at the Northeast Combinatorics and Graph Theory Symposium, Syracuse University, Oct. 19
- 1995 The Minimum Size of Graphs Labeled with a Condition at Distance Two, delivered at the University of Rhode Island, Oct. 27
- 1995 Generalized λ -Labelings with a Condition at Distance Two, delivered at the 26th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Florida Atlantic University, March 6 - 10
- 1995 The Sizes of Graphs Labeled with a Condition at Distance Two, delivered at the A.M.S. Winter Meeting, San Francisco, Jan. 4
- 1994 Path Coverings and Vertex Labelings with a Condition at Distance Two, delivered at the Ninth Northeast Symposium on Graph Theory and Combinatorics, S.U.N.Y. - Geneseo, Oct. 15
- 1992 Using Mathematica to Teach Calculus, delivered at the Atomic Spring Conference, Choate-Rosemary Hall, March 5
- 1990 Adjacency in Sequences of Marked and Unmarked Objects, delivered at the Fourth New England Statistics Symposium, Lowell University, Apr. 21
- 1989 Adjacency in Sequences of Marked and Unmarked Objects, delivered at the departmental colloquium, Univ. of CT at Storrs, Nov.
- 1989 Gambling and Intuition, delivered at the departmental colloquium, Smith College, Apr.
- 1988 Derived Linear Systems of Context-Free Grammars, delivered at the First New York Workshop on Graphs, Combinatorics and Networks, Fordham University, June 7
- 1987 Regression with Censored Data, delivered at the First New England Statistics Symposium, Univ. of CT at Storrs, Apr. 11

Referee For

<i>Journal of Combinatorial Math. and Combinatorial Computing</i>	<i>Discrete Applied Mathematics</i>
<i>S.I.A.M. Journal on Discrete Applied Math.</i>	<i>Ars Combinatoria</i>
<i>Mathematics Letters</i>	<i>Discrete Mathematics</i>
<i>Journal of Graph Theory</i>	<i>Biometrika</i>
<i>Journal of the American Statistical Association</i>	<i>Communications in Statistics</i>
<i>Annals of Statistics</i>	

Courses Taught at Trinity

Elementary Algebra 100	Elementary Statistics 107	Pre-Calculus Lab 109L
Calculus 110	Calculus 1 111	Calculus 2 113
Judgment and Decision-Making 114	Calculus 1 121, 131	Calculus 2 122, 132
Intermediate Statistics 157/257	Abstraction and Argument 205	Mathematical Minds 208
Linear Algebra 228	Calculus 3 231	Differential Equations 234
Statistics 306	Algebra 307	Analysis of Algorithms 320
Graph Theory 326	Analysis 1 331	Theory of Computation 337
Senior Exercise 411	First Year Seminars	Data Analysis 207

Committee Service

Academic Dishonesty Appeals Board	Admissions & Fin. Aid	Appointments & Promotions
A&P Advisory	A&P Appeals	Benefits Comm.
Committee on Committees	Computer Center Advisory	Cornerstone Planning
Dean Evaluation Comm.	Educational Policy	Faculty Conference
Financial Affairs	Fraternity & Sorority Advisory	Graduate Review Comm.
Math. Center Advisory	New Building Comm.	T.O.P Comm.
annual search committees		