

Prof IRENE SCIRIHA

DEPARTMENT OF MATHEMATICS

Publications in Refereed Journals and Books:

(Amended Jan 4, 2013)

2013 [2] [48] [4]

2012: [49] [25] [26] [27] [31]

2011: [24]

2010: [23] [1]

2009: [47] [46] [19] [21] [20] [22]

2008: [53] [45] [17] [5] [18]

2007: [44] [8] [30]

2006: [43] [7] [59]

2005: [58] [3] [29]

2004: [6] [52]

2003: [16] [15] [51] [15] [34] [32]

2002: [42] [41] [13] [14]

2001: [60] [57] [40]

2000: [56] [39] [11] [12]

1999: [9]

1998: [33] [55] [35] [38] [37]

1997: [28] [36]

1996: [54] [10] [50]

## References

- [1] Domingos M. Cardoso, Irene Sciriha, and Cheryl Zerafa. Main eigenvalues and  $(\kappa, \tau)$ -regular sets. *Linear Algebra Appl.*, 432(9):2399–2408, 2010.
- [2] Jane Coates, Josef Lauri, and Irene Sciriha\*. Polynomial reconstruction for certain subclasses of disconnected graphs. *Graph Theory Notes of New York*, LXIII(5):4148, 2013.
- [3] Stanley Fiorini, Ivan Gutman, and Irene Sciriha. Trees with maximum nullity. *Linear Algebra Appl.*, 397:245–251, 2005.
- [4] P.W. Fowler, B. T. Pickup, T.Z. Todorova, R. De Los Reyes, and I. Sciriha. Omni-conducting fullerenes — editor’s choice — <http://www.sciencedirect.com/science/article/pii/S0009261413003370>. *Chemical Physics Letters*, 2013.
- [5] in AIM Minimum Rank Special Graphs Work Group I. Sciriha et al. Zero forcing sets and the minimum rank of graphs. *Linear Algebra and Appl. (LAA)*, 428:1628–1648, 2008.
- [6] Enzo Maria Li Marzi and Irene Sciriha. The Boolean power sequence of graphs. *Graph Theory Notes N. Y.*, 46:20–26, 2004.
- [7] M. C. Marino, I. Sciriha, S. K. Simić, and D. V. Tošić. More about singular line graphs of trees. *Publ. Inst. Math. (Beograd) (N.S.)*, 79(93):1–12, 2006.
- [8] Peter Rowlinson and Irene Sciriha. Some properties of the Hoffman-Singleton graph. *Appl. Anal. Discrete Math.*, 1(2):438–445, 2007.
- [9] I. Sciriha. *On the Rank of Graphs in Graph Theory and Algorithms II in ed Y.Alavi, D.R.Lick and A.Schwenk, Michigan,1999*.
- [10] I. Sciriha. Graphs and their spectra. *Xjenja*, 1.1:21–23, 1996.

- [11] I. Sciriha. An algorithm to analyse the polynomial deck of the line graph of a triangle-free graph. *Journal of Combinatorial Mathematics and Combinatorial Computing*, 35:97–105, 2000.
- [12] I. Sciriha. Dr sciriha’s web page <http://staff.um.edu.mt/isci1/>, 2000.
- [13] I. Sciriha. If a disconnected graph were a counter example to the prp. *13th Combinatorial Conference, Colchester, Essex University*, 2002.
- [14] I. Sciriha. On polynomial reconstruction. *MessinaII*, 2002.
- [15] I. Sciriha. *Polynomial Reconstruction*. 2003.
- [16] I. Sciriha. Recent results in algebraic graph theory. *International Congress MASSEE 2003 Borovets Bulgaria*, 2003.
- [17] I. Sciriha. Growing larger fullerenes, 2008.
- [18] I. Sciriha. *”Lisbon” and Gender Gaps in Employment — Anti- Discrimination, Inclusion and Equality in Malta, The European documentation and Research Centre and Jean Monnet European Centre of Excellence, Civil Society Project Report, in ed. Peter G. Xuereb*. 2008.
- [19] I. Sciriha. Dept math faculty science uom <http://www.um.edu.mt/science/math/>, 2009.
- [20] I. Sciriha. Graph spectra and fullerene molecular structure <http://www.um.edu.mt/projects/fullerenes/>, 2009.
- [21] I. Sciriha. Linear algebra and spectral graph theory to chemical structure <http://nanospectrs.100webspac.net/>, 2009.
- [22] I. Sciriha. Maximal core size in singular graphs – <http://amc.imfm.si>. *Ars Mathematica Contemporanea (AMC)*, 2:217–229, 2009.
- [23] I. Sciriha. Extremal non-bonding orbitals. *MATCH Commun. Math. Comput. Chem.-(Impact factor 3.5)* <http://www.pmf.kg.ac.rs/match/>, 63(3):751–768, 2010.

- [24] I. Sciriha. Maximal and extremal singular graphs. *Sovremennaya Matematika i Ee Prilozheniya - Contemporary Mathematics and its Applications – Algebraic Techniques in Graph Theory and Optimization-Springer*, 71:1–9, 2011.
- [25] I. Sciriha. Maximal and extremal singular graphs. *Journal of Mathematical Sciences -Springer (JMS)*, 182-2:117–125, 2012.
- [26] I. Sciriha and D. M. Cardoso. Necessary and sufficient conditions for a hamiltonian graph. *Journal of Combinatorial Mathematics and Combinatorial Computing (JCMCC)*, Feb2012 2012.
- [27] I. Sciriha and C.M. da Fonseca. On the rank spread of graphs. *Linear and Multilinear Algebra (LAMA)*, 60-1:73–92, 2012.
- [28] I. Sciriha and S. Fiorini. On the characteristic polynomial of homeomorphic images of a graph. *Discrete Math.*, 174(1-3):293–308, 1997. *Combinatorics (Rome and Montesilvano, 1994)*.
- [29] I. Sciriha and P. W. Fowler. Zooming in on fullerenes. *Xjenja*, 2:8–10, 2005.
- [30] I. Sciriha and P. W. Fowler. Nonbonding orbitals in fullerenes: Nuts and cores in singular polyhedral graphs. *J. Chem. Inf. Model. (JCIM) (Impact factor 8.09)*, 47:1763–1775, 2007.
- [31] I. Sciriha and Simi/’ic S. K. On the eigenspaces of some compound graphs.
- [32] Irene Sciriha. The challenges that european research imposes on female scientists in gender equality – fp6, j.sikora and c.wehle eds., eubro, federal ministry of education and research (bmbf) germany 2003.
- [33] Irene Sciriha. The characteristic polynomials of windmills with an application to the line graphs of trees 1998. *Graph Theory Notes of New York*.
- [34] Irene Sciriha. The cradle of thought for effective policy- making – uom annual report 2003.

- [35] Irene Sciriha. On some aspects of graph spectra ph.d.thesis univ mathematics, Lon 1998.
- [36] Irene Sciriha. On the coefficient of  $\lambda$  in the characteristic polynomial of singular graphs. *Util. Math.*, 52:97–111, 1997.
- [37] Irene Sciriha. On singular line graphs of trees. *Congr. Numer.*, 135:73–91, 1998.
- [38] Irene Sciriha. On the construction of graphs of nullity one. *Discrete Math.*, 181(1-3):193–211, 1998.
- [39] Irene Sciriha. The two classes of singular line graphs of trees. *Rend. Sem. Mat. Messina Ser. II*, 5(5 Supplemento):167–180, 2000. 5th Workshop on Combinatorics (Messina, 2000).
- [40] Irene Sciriha. Coronas are polynomial reconstructible. In *Proceedings of the Tenth General Meeting of European Women in Mathematics, Lon, 2001*), volume 148, page 300. World Scientific, Imperial College Press (UK), 2001.
- [41] Irene Sciriha. Polynomial reconstruction: old and new techniques. *Rend. Sem. Mat. Messina Ser. II*, 8(24)(suppl.):163–179, 2001/02. 6th Workshop on Combinatorics (Messina, 2002).
- [42] Irene Sciriha. Polynomial reconstruction and terminal vertices. *Linear Algebra Appl.*, 356:145–156, 2002. Special issue on algebraic graph theory (Edinburgh, 2001).
- [43] Irene Sciriha. Repeated eigenvalues of the line graph of a tree and of its deck. *Util. Math.*, 71:33–55, 2006.
- [44] Irene Sciriha. A characterization of singular graphs. *Electron. J. Linear Algebra*, 16:451–462 (electronic), 2007.
- [45] Irene Sciriha. Coalesced and embedded nut graphs in singular graphs. *Ars Math. Contemp.*, 1(1):20–31, 2008.
- [46] Irene Sciriha. Graphs with a common eigenvalue deck. *Linear Algebra Appl.*, 430(1):78–85, 2009.

- [47] Irene Sciriha. Maximal core size in singular graphs. *Ars Math. Contemp.*, 2(2):217–229, 2009.
- [48] Irene Sciriha, Mark Debono, Marta Borg, Patrick Fowler, and Barry T. Pickup. Interlacing-extremal graphs. *Ars Math. Contemp.*, 6(2):261–278, 2013.
- [49] Irene Sciriha and Stephanie Farrugia. On the spectrum of threshold graphs. *ISRN Discrete Mathematics International Scholarly* <http://www.isrn.com/journals/dm/2011/108509/cta/>, 108509, 2011.
- [50] Irene Sciriha, Stanley Fiorini, and Joseph Lauri. Minimal basis for a vector space with an application to singular graphs. *Graph Theory Notes N. Y.*, 31:21–24, 1996. New York Graph Theory Day, 31 (1996).
- [51] Irene Sciriha and M. Juanita Formosa. On polynomial reconstruction of disconnected graphs. *Util. Math.*, 64:33–44, 2003.
- [52] Irene Sciriha and Patrick W. Fowler. A spectral view of fullerenes. *Math. Balkanica (N.S.)*, 18(1-2):183–192, 2004.
- [53] Irene Sciriha and Patrick W. Fowler. On nut and core singular fullerenes. *Discrete Math.*, 308(2-3):267–276, 2008.
- [54] Irene Sciriha and Ivan Gutman. Graphs with maximum singularity. *Graph Theory Notes of New York*, 30:17–20, 1996.
- [55] Irene Sciriha and Ivan Gutman. Nut graphs: maximally extending cores. *Util. Math.*, 54:257–272, 1998.
- [56] Irene Sciriha and Ivan Gutman. Spectral properties of windmills. *Graph Theory Notes of New York*, 38:20–24, 2000.
- [57] Irene Sciriha and Ivan Gutman. On the nullity of line graphs of trees. *Discrete Mathematics*, 232:35–45, 2001.
- [58] Irene Sciriha and Ivan Gutman. Minimal configurations and interlacing. *Graph Theory Notes N. Y.*, 49:38–40, 2005.

- [59] Irene Sciriha and Ivan Gutman. Minimal configuration trees. *Linear Multilinear Algebra*, 54(2):141–145, 2006.
- [60] Irene Sciriha and M. Corinna Marino. On the adjacency matrix and the colouring of graphs. In *Proceedings of the Thirty-second Southeastern International Conference on Combinatorics, Graph Theory and Computing (Baton Rouge, LA, 2001)*, volume 148, pages 43–63, 2001.