

June 21, 2019

CURRICULUM VITAE

1 DATE PERSONALE

Nume : Ioan TOMESCU

Locul naşterii :

Naţionalitatea :

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Adresă serviciu : Facultatea de Matematică şi Informatică, Universitatea din Bucureşti
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2 EDUCAȚIA UNIVERSITARĂ

1969-1971: Studii universitare in matematică, specializarea informatică
Universitatea din Bucureşti

Doctor in Matematică (1971)

Titlul tezei de doctorat: Metode combinatorii in teoria automatelor finite

Conducător ştiinţific: Acad. Prof. Gr. C. Moisil

1960-1965: Student la Facultatea de Matematică, specializare in informatică,
Universitatea din Bucureşti

Diplomă: Licenţiat in matematică specializarea informatică [diplomă de merit](1965)

Lucrarea de licenţă: Analiza şi sinteza multipolilor cu contacte

3 POZIȚII OCUPATE

3.1 Poziții academice

1. Profesor emerit, Departamentul de Informatică, Facultatea de Matematică și Informatică, Universitatea din București, din noiembrie 2011.
2. Profesor, Departamentul de Informatică, Facultatea de Matematică și Informatică, Universitatea din București, din octombrie 1990 până în noiembrie 2011.
3. Visiting Professor, Abdus Salam School of Mathematical Sciences, Government College University, Lahore, Pakistan, din noiembrie 2005.
4. Visiting Senior Research Fellow, School of Computing, National University of Singapore, august-septembrie 2002.
5. Visiting Professor, Department of Computer Science, Auckland University, New Zealand, din februarie 1995 până în iunie 1995.
6. Lector, Catedra de informatică, Universitatea din București, din februarie 1972 până în octombrie 1990.
7. Visiting Professor, Department of Applied Mathematics, Universitatea din Tirana, Albania, din martie 1974 până în iunie 1974.
8. Asistent, Catedra de informatică, Universitatea din București, din octombrie 1968 până în februarie 1972.
9. Preparador, Catedra de informatică, Universitatea din București, din decembrie 1965 până în octombrie 1968.

3.2 Poziții de cercetare

1. Cercetător, Departamentul de Matematică, INCREST, București, din februarie 1983 până în iunie 1983.

3.3 Alte poziții

1. Șeful catedrei de Informatică, Facultatea de Matematică și Informatică, Universitatea din București, 1990-2007.
2. Secretar științific, Facultatea de Matematică-Mecanică, Universitatea din București, din noiembrie 1984 până în martie 1990.
3. Membru în Comisia de punctaje și promovări, Facultatea de Matematică și Informatică Universitatea din București, din 1990 până în 2011.
4. Membru în comisia de atestarea conducătorilor de doctorat, Facultatea de Matematică și Informatică, Universitatea din București, din aprilie 1990 până în 2011.

5. Membru in Comisia Națională de atestare a titlurilor, diplomelor și grade-
lor universitare a Ministerului Educației Naționale, din anul 1996 până in
anul 2006.
6. Secretar al Comisiei de științe exacte I a C.N.E.A.A., din anul 1994 până
in anul 2005.
7. Membru in Comisia de Matematică și Științele Naturii a C.N.C.S.I.S., din
anul 2003 până in anul 2005.
8. Conducător al echipei României la Olimpiada Internațională de Matem-
atică din iulie 1983 până in iulie 1986 și din iulie 1990 până in iulie 1994.
9. Conducător al echipei României la Balcaniada de Matematică din mai
1990 până in mai 1994.
10. Președintele Comisiei Naționale de Matematică, Ministerul Educației
Naționale, București, din 1983 până in 1994.
11. Președintele juriului Balcaniadei de Matematică, Bacău, aprilie, 1996.
12. Președintele juriului Olimpiadei Internaționale de Matematică, București,
iulie, 1999.
13. Vicepreședinte, Societatea de Științe Matematice din România, intre anii
1996 și 1999 și din anul 2001 până in anul 2008.
14. Președinte de onoare, Societatea de Științe Matematice din România, din
anul 2008.

4 Limbi străine cunoscute

Foarte bine : Franceză, Engleză

Satisfăcător: Rusa

5 Cursuri predate

Departamentul de Informatică, Facultatea de Matematică și Informatică, Universitatea din București
 Structuri de date (1975-1992 și 1994-2011)
 Introducere in programare (1972-1974)
 Algoritmi numerici și nenummerici (1971-1975)
 Programare liniară (1972)
 Metode numerice in informatică (1971-1972)
 Combinatorică și teoria grafurilor (1969-1990)
 Teoria grafurilor și aplicații (1990-2011)
 Teoria automatelor (1970-1971)
 Numerical and Nonnumerical Programming Techniques (International
 Graduate UNESCO Courses, 1978-1982)

Graphs and Operations Research (International Graduate
 UNESCO Courses, 1978-1982)
 Tehnici de optimizare combinatorială (2007-2013)
 1995: Department of Computer Science, Auckland University, New Zealand
Graduate Course
 Data Structures
 1974: Department of Applied Mathematics, The University of Tirana, Albania
Undergraduate Course
 Sorting and Searching
Graduate Course
 Applications of Graph Theory to Operations Research

6 PUBLICAȚII

6.1 Lucrări științifice în reviste cu referenți

1. F. Javaid, M. K. Jamil, I. Tomescu, Extremal k -generalized quasi unicyclic graphs with respect to first and second Zagreb indices, *Discrete Applied Mathematics* (in press).
2. M. K. Jamil, I. Tomescu, General sum-connectivity index of trees and unicyclic graphs with fixed maximum degree, *Proceedings Romanian Academy series A*, 1(20)(2019), 11-17.
3. I. Tomescu, Maximizing general first Zagreb and sum-connectivity indices for unicyclic graphs with given independence number, *The Art of Discrete and Applied Mathematics*, vol. 2, no 1(2019) # P1.03.
4. M. K. Jamil, I. Tomescu, First reformulated Zagreb index and some graph operations, *Ars Combinatoria*, 138(2018), 193-209.
5. Surahmat, S. Syafrizal, Dafik, I. Tomescu, On Ramsey numbers of cycles with respect to even wheels of two hubs, *Far East J. Math. Sci. (FJMS)*, 2(102)(2017), 349-359.
6. I. Tomescu, A. Riasat, On a conjecture concerning resolving pairs, *Univ. Politehnica Bucharest Scientific Bulletin, Series A*, 79(4)(2017), 199-206.
7. M. K. Jamil, I. Tomescu, Minimum general sum-connectivity index of trees and unicyclic graphs having a given matching number, *Discrete Applied Mathematics*, 222(2017), 143-150.
8. M. Arshad, I. Tomescu, Maximum general sum-connectivity index with $-1 \leq \alpha < 0$ for bicyclic graphs, *Mathematical Reports*, 19(69), 1(2017), 93-96.
9. N. Akhter, M. K. Jamil, I. Tomescu, Extremal first and second Zagreb indices of apex trees, *Univ. Politehnica Bucharest Scientific Bulletin, Series A*, 78(4)(2016), 221-230.

10. M. Imran, S. A. Ul Haq Bokhary, A. Q. Baig, I. Tomescu, On metric dimension of convex polytopes with pendant edges, *Ars Combinatoria*, 125(2016), 433-447.
11. I. Tomescu, On the general sum-connectivity index of connected graphs with given order and girth, *Electronic Journal of Graph Theory and Applications*, 4(1)(2016), 1-7.
12. R. M. Tache, I. Tomescu, General sum-connectivity index with $\alpha \geq 1$ for trees and unicyclic graphs with k pendants, *IEEE Proceedings of SYNASC* (2015), 307-311.
13. I. Tomescu, S. Kanwal, Unicyclic connected graphs having smallest degree distances, *Utilitas Mathematica*, 97:7(2015), 161-181.
14. N. Akhter, I. Tomescu, Bicyclic graphs with minimum general sum-connectivity index for $-1 \leq \alpha < 0$, *Proceedings Romanian Academy, Series A*, 16(4)(2015), 484-489.
15. S. Kanwal, I. Tomescu, Bounds for degree distance of a graph, *Mathematical Reports*, 17(67), 3(2015), 337-344.
16. K. Ali, I. Tomescu, I. Javaid, On path-sunflower Ramsey numbers, *Mathematical Reports*, 17(67), 4(2015), 385-390.
17. M. K. Jamil, I. Tomescu, N. Akhter, Extremal degree-product indices of graphs with fixed number of pendant vertices and cyclomatic number, *International Letters of Chemistry, Physics and Astronomy*, 59(2015), 53-61.
18. I. Tomescu, M. Arshad, M. K. Jamil, Extremal topological indices for graphs of given connectivity, *Filomat*, 29:7(2015), 1639-1643.
19. I. Tomescu, S. Javed, Extremal bicyclic 3-chromatic graphs, *Graphs and Combinatorics*, 31, 4(2015), 1043-1052.
20. R. Marinescu-Ghemeci, G. Mihai, I. Tomescu, Radio number of uniform subdivisions of the wheel, *Utilitas Mathematica*, 96(2015), 131-147.
21. I. Tomescu, A. Riasat, On metric dimension of uniform subdivisions of the wheel, *Utilitas Mathematica*, 96(2015), 233-242.
22. I. Tomescu, M. Arshad, On the general sum-connectivity index of connected graphs with k pendant vertices, *Discrete Appl. Math.*, 181(2015), 306-309.
23. I. Tomescu, M. Imran, R -sets and metric dimension of necklace graphs, *Appl. Math. Inf. Sci.*, 1, 9(2015), 63-67.
24. Surahmat, I. Tomescu, On path-Jahangir Ramsey numbers, *Applied Mathematical Sciences*, 8(99)(2014), 4899-4904.

25. I. Tomescu, Extremal results concerning the general sum-connectivity index in some classes of connected graphs, *ROMAI J.*, 10, 2(2014), 45-51.
26. I. Tomescu, 2-Connected graphs with minimum general sum-connectivity index, *Discrete Appl. Math.*, 178(2014), 135-141.
27. M. Imran, A. Q. Baig, M. K. Shafiq, I. Tomescu, On metric dimension of generalized Petersen graphs $P(n, 3)$, *Ars Combinatoria*, 117(2014), 113-130.
28. I. Tomescu, Some results on chromaticity of quasilinear hypergraphs, P. Cartier et al. (eds.) *Mathematics in the 21st Century*, Springer Proceedings in Mathematics & Statistics 98, Springer Basel 2014, 57-62.
29. I. Tomescu, M. K. Jamil, Maximum general sum-connectivity index for trees with given independence number, *MATCH Commun. Math. Comput. Chem.*, 3, 72(2014), 715-722.
30. I. Tomescu, S. Kanwal, Unicyclic graphs of given girth $k \geq 4$ having smallest general sum-connectivity index, *Discrete Appl. Math.*, 164(2014), 344-348.
31. I. Tomescu, Hypergraphs with pendant paths are not chromatically unique, *Discussiones Mathematicae Graph Theory*, 34(1)(2014), 23-29.
32. I. Tomescu, S. Javed, On the chromaticity of quasi linear hypergraphs, *Graphs and Combinatorics*, 6(29)(2013), 1921-1926.
33. M. Imran, F. Bashir, A. Q. Baig, S. A. Ul Haq Bokhary, A. Riasat, I. Tomescu, On metric dimension of flower graphs $f_{n \times m}$ and convex polytopes, *Utilitas Mathematica*, 92(2013), 389-409.
34. S. Javed, I. Tomescu, Chromatically equivalent k -bridge hypergraphs, *Mathematical Reports*, 3, 15(65)(2013), 281-285.
35. I. Tomescu, S. Kanwal, Ordering trees having small general sum-connectivity index, *MATCH Communications in Mathematical and in Computer Chemistry*, 3, 69(2013), 535-548.
36. I. Tomescu, A. A. Bhatti, On the cyclomatic number of linear hypergraphs, *Ars Combinatoria*, 106(2012), 527-533.
37. M. T. Rahim, I. Tomescu, Multi-level distance labelings for helm graphs, *Ars Combinatoria*, 104(2012), 513-523.
38. I. Tomescu, Some results on chromaticity of quasi-linear paths and cycles, *Electron. J. Combin.*, 2(19)(2012), Research Paper P23, 8 p.
39. I. Tomescu, On the connected partition dimension of a wheel related graph, M. J. Dinneen et al. (Eds.): *Computation, physics and beyond. Int. workshop on theoretical computer science WTCs 2012 (Calude Festschrift)*, LNCS 7160, Springer (2012), 417-424.

40. I. Tomescu, S. Kanwal, Ordering connected graphs having small degree distances. II, *MATCH Communications in Mathematical and in Computer Chemistry*, 2, 67(2012), 425-437.
41. A. Ahmad, I. Tomescu, On vertex-magic total labeling of some families of rotationally-symmetric graphs, *Utilitas Mathematica*, 3, 86(2011), 347-357.
42. I. Tomescu, M. Imran, Metric dimension and R -sets of connected graphs, *Graphs and Combinatorics*, 27(2011), 585-591.
43. A. A. G. Ngurah, E. T. Baskoro, I. Tomescu, Magic graphs with pendant edges, *Ars Combinatoria*, 99(2011), 149-160.
44. I. Kousar, I. Tomescu, S. M. Husnine, Graphs with same diameter and metric dimension, *Journal of Prime Research in Mathematics*, 6(2010), 22-31.
45. I. Tomescu, Ordering connected graphs having small degree distances, *Discrete Applied Mathematics*, 158(2010), 1714-1717.
46. R. Marinescu-Ghemeci, I. Tomescu, On star partition dimension of the generalized gear graph, *Bull. Math. Soc. Sci. Math. Roumanie*, 53(101), no. 3(2010), 261-268.
47. I. Tomescu, S. A. Bokhary, Series-parallel chromatic hypergraphs, *Discrete Applied Mathematics*, 158(2010), 198-203.
48. I. Tomescu, R. Marinescu-Ghemeci, G. Mihai, On dense graphs having minimum Randić index, *Romanian Journal of Information Science and Technology*, 4(12)(2009), 455-465.
49. I. Tomescu, S. A. Bokhary, Some properties of chromatic coefficients of linear uniform hypergraphs, *Graphs and Combinatorics*, vol. 25, 4(2009), 639-646.
50. I. Tomescu, M. Imran, On metric and partition dimensions of some infinite regular graphs, *Bull. Math. Soc. Sci. Math. Roumanie*, 52(100), no. 4(2009), 461-472.
51. L. P. Dinu, I. Tomescu, From rankings' collinearity to counting SDR's via chromatic list expression, *International Journal of Computer Mathematics*, vol. 86, 9(2009), 1483-1489.
52. S. A. Bokhary, I. Tomescu, A. A. Bhatti, On the chromaticity of multi-bridge hypergraphs, *Graphs and Combinatorics*, vol. 25, 2(2009), 145-152.
53. I. Tomescu, Properties of connected graphs having minimum degree distance, *Discrete Mathematics*, vol. 309, 9(2009), 2745-2748.
54. K. Ali, E. T. Baskoro, I. Tomescu, On the Ramsey number for paths and beaded wheels, *J. of Prime Research in Mathematics*, 5(2009), 187-193.

55. I. Tomescu, Discrepancies between metric dimension and partition dimension of a connected graph, *Discrete Mathematics*, vol. 308, 22(2008), 5026-5031.
56. I. Tomescu, Threshold properties of some periodic factors of words over a finite alphabet, *Journal of Automata, Languages and Combinatorics*, vol. 13(2008) 2, 145-156.
57. K. Ali, E. T. Baskoro, I. Tomescu, On the Ramsey numbers for paths and generalized Jahangir graphs $J_{s,m}$, *Bull. Math. Soc. Sci. Math. Roumanie*, Tome 51(99), 3(2008), 177-182.
58. Surahmat, E. T. Baskoro, I. Tomescu, The Ramsey numbers of large cycles versus odd wheels, *Graphs and Combinatorics*, vol. 24, 1(2008), 53-58.
59. I. Tomescu, On the number of words containing the factor $(aba)^k$, *Discrete Applied Mathematics*, vol. 155, 11(2007), 1506-1511.
60. I. Tomescu, On the chromaticity of sunflower hypergraph $SH(n, p, h)$, *Discrete Mathematics*, vol. 307, 6(2007), 781-786.
61. M. T. Rahim, I. Tomescu, Slamin, On vertex-magic total labeling of some wheel related graphs, *Utilitas Mathematica*, 73(2007), 97-104.
62. I. Tomescu, I. Javaid, Slamin, On the partition dimension and connected partition dimension of wheels, *Ars Combinatoria*, 84(2007), 311-317.
63. I. Tomescu, I. Javaid, On the metric dimension of the Jahangir graph, *Bull. Math. SSMR*, 50(98), 4(2007), 371-376.
64. I. Tomescu, On the ratio between partition dimension and metric dimension of a connected graph, *An. Univ. București, Mat.-Inf.*, XLV(2006), 3-10.
65. Surahmat, E. T. Baskoro, I. Tomescu, The Ramsey numbers of large cycles versus wheels, *Discrete Mathematics*, vol. 306, 24(2006), 3334-3337.
66. I. Tomescu. A characterization of the words occurring as factors in a minimum number of words, *Theoretical Computer Science*, vol. 352, 1-3(2006), 329-331.
67. I. Tomescu. Extremal and asymptotic properties of irreducible coverings of graphs by cliques, *J. of Prime Research in Mathematics*, vol. 1, 1(2005), 101-110.
68. I. Tomescu. Almost all graphs and h -hypergraphs have small diameter, *Australasian Journal of Combinatorics*, vol. 31(2005), 313-323.
69. I. Tomescu. Asymptotic properties of the factors of words over a finite alphabet, *Fundamenta Informaticae*, 64, 1-4(2005), 463-470.
70. I. Tomescu. Sunflower hypergraphs are chromatically unique, *Discrete Mathematics*, 285(2004), 355-357.

71. I. Tomescu. On the number of occurrences of all short factors in almost all words, *Theoretical Computer Science*, 290(2003), 2031-2035.
72. I. Tomescu. Maximal σ -polynomials of connected 3-chromatic graphs, *J. Graph Theory*, 43(2003), 210-222.
73. I. Tomescu. On the chromatic coefficients of graphs with dense neighborhoods, *Math. Reports*, 4(54), 3(2002), 295-299.
74. I. Tomescu. On the number of h -connected graphs with a fixed diameter, *Discrete Mathematics*, 252(2002), 279-285.
75. I. Tomescu. On the maximum number of irreducible coverings of an n -vertex graph by $n-3$ cliques, *Computing and Combinatorics*, Proceedings, 8th Annual Int. Conf., COCOON2002, Singapore, August 2002, Oscar H. Ibarra, Louxin Zhang (Eds.), Lecture Notes in Computer Science 2387, Springer (2002), 544-553.
76. I. Tomescu. Irreducible coverings by cliques and Sperner's theorem, *Electronic Journal of Combinatorics*, Vol. 9(1)(2002), paper N11 (4 pag.).
77. D. Andrica, I. Tomescu. On an integer sequence related to a product of trigonometric functions, and its combinatorial relevance, *Journal of Integer Sequences*, Vol. 5(2002), article 02.2.4 (8 pag.).
78. I. Tomescu. On the number of graphs and digraphs with a fixed diameter and connectivity, *Combinatorics, Computability and Logic*, Proceedings of the Third International Conference on Combinatorics, Computability and Logic (DMTCS'01), Springer-Verlag London, 2001, 33-46.
79. I. Tomescu. The number of h -strongly connected digraphs with small diameter, *Australasian Journal of Combinatorics* 24(2001), 305-311.
80. I. Tomescu. On the number of graphs and h -hypergraphs with bounded diameter, *Discrete Mathematics* 235(2001), 291-299.
81. I. Tomescu. A cascade version of Dantzig's inductive algorithm for matrices over semilattice-ordered semigroups, *Multiple Valued Logic* 6, 1-2(2001), 217-228.
82. I. Tomescu. Extremal properties of the chromatic polynomials of connected 3-chromatic graphs, *Matematicki Vesnik*, Vol. 53, No. 3-4(2001), 111-116.
83. I. Tomescu. On the number of large h -hypergraphs with a fixed diameter, *Discrete Mathematics* 223(2000), 287-297.
84. I. Tomescu. Some extremal properties of the degree distance of a graph, *Discrete Applied Mathematics* 98(1999), 159-163.
85. I. Tomescu. On words containing all short subwords, *Theoretical Computer Science* 197(1998), 235-240.

86. I. Tomescu. A threshold property concerning words containing all short factors, *Bulletin of the EATCS* no.64(1998), 166-170.
87. I. Tomescu. Chromatic coefficients of linear uniform hypergraphs, *Journal of Combinatorial Theory Series B*, Vol. 72, No. 2(1998), 229-235.
88. C. S. Calude, I. Tomescu. Optimum extendible prefix codes, *Journal of Universal Computer Science* Vol. 3 No. 11(1997), 1167-1179.
89. I. Tomescu. Maximum chromatic polynomial of 3-chromatic blocks, *Discrete Mathematics* 172(1997), 131-139.
90. I. Tomescu. Optimum Huffman forests, *Journal of Universal Computer Science* Vol. 3 No. 7(1997), 813-820.
91. I. Tomescu. On the number of trees having k edges in common with a graph of bounded degree, *Discrete Mathematics* 169(1997), 283-286.
92. I. Tomescu. On the asymptotic average length of a maximum common subsequence for words over a finite alphabet, *Theoretical Computer Science* 164(1996), 277-285.
93. I. Tomescu. An asymptotic formula for the number of graphs having small diameter, *Discrete Mathematics* 156(1996), 219-228.
94. I. Tomescu. The number of digraphs with small diameter, *Australasian J. Combinatorics* 14(1996), 221-227.
95. D. Popescu, I. Tomescu. Negative cycles in complete signed graphs, *Discrete Applied Mathematics* 68(1996), 145-152.
96. D. Popescu, I. Tomescu. Bonferroni inequalities and negative cycles in large complete signed graphs, *Europ. J. Combinatorics* 17(1996), 479-483.
97. I. Tomescu. On the number of irreducible coverings by edges of complete bipartite graphs, *Discrete Mathematics* 150(1996), 453-456.
98. I. Tomescu. Maximum chromatic polynomials of 2-connected graphs, *J. Graph Theory* 4, 18(1994), 329-336.
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100. I. Tomescu. On the number of subtrees for almost all graphs, *Random Structures and Algorithms* 1, 5(1994), 205-213.
101. I. Tomescu, M. Zimand. Minimum spanning hypertrees, *Discrete Applied Mathematics* 54(1994), 67-76.
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103. I. Tomescu. Ordered h -hypertrees, *Discrete Mathematics* 105(1992), 241-248.
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105. I. Tomescu. Almost all digraphs have a kernel, *Discrete Mathematics* 84(1990), 181-192; reprinted in: *Random Graphs '87*, Ed. by M. Karoński, J. Jaworski and A. Ruciński, J. Wiley, 1990, 325-340.
106. I. Tomescu. Maximal chromatic polynomials of connected planar graphs, *J. Graph Theory* 1, 14(1990), 101-110.
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108. I. Tomescu. Decomposition theorems for the number of perfect matchings in hexagonal graphs, *Rostock. Math. Kolloq.* 38(1989), 15-24.
109. I. Tomescu, A. T. Balaban. Decomposition theorems for calculating the number of Kekulé structures in coronoids fused via perinaphthyl units, *Comm. Math. Chem. (MATCH)* 24(1989), 289-309.
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111. I. Tomescu. On 3-colorings of bipartite p -threshold graphs, *J. Graph Theory* 3, 11(1987), 327-338.
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114. I. Tomescu. Hypertrees and Bonferroni inequalities, *J. Combinatorial Theory* 2, B41(1986), 209-217.
115. I. Tomescu. The number of paths and circuits for almost all complete digraphs, *An. Univ. București, Mat.* 35(1986), 72-78.
116. I. Tomescu. On hypergraph colourings, *Quart. J. Math. Oxford*(2) 37(1986), 239-243.
117. I. Tomescu. On the number of paths and cycles for almost all graphs and digraphs, *Combinatorica* 1, 6(1986), 73-79.

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121. I. Tomescu. Colorings and irreducible coverings by cliques of graphs and hypergraphs, *An. Univ. Galați Mat.* 2(7), 2(1984), 15-20.
122. R. A. Melter, I. Tomescu. On the Boolean metric dimension of a graph, *Rev. Roumaine Math. Pures Appl.* 5, 29(1984), 407-415.
123. F. Harary, R. A. Melter, I. Tomescu. Digital metrics: A graph-theoretical approach, *Pattern Recognition Letters* 2(1984), 159-163.
124. R. A. Melter, I. Tomescu. Metric bases in digital geometry, *Computer Vision, Graphics, and Image Processing* 25(1984), 113-121.
125. I. Tomescu. On Hamiltonian-connected regular graphs, *J. Graph Theory* 7(1983), 429-436.
126. I. Tomescu. An upper bound for the shortest Hamiltonian path in the symmetric Euclidean case, *RAIRO Rech. Opérat.* 3, 17(1983), 297-306.
127. A. T. Balaban, I. Tomescu. Algebraic expressions for the number of Kekulé structures of isoarithmic cata-condensed benzenoid polycyclic hydrocarbons, *Comm. Math. Chem. (MATCH)* 14(1983), 155-182.
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131. I. Tomescu. On the chromatic number of almost all graphs, *Bull. Math. Soc. Sci. Math. Roumanie(N. S.)* 25(73)(1981), 321-323.
132. I. Tomescu. The maximum number of cliques and of coverings by cliques of complete chromatic hypergraphs, *Discrete Mathematics* 37(1981), 263-277. (in French)
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2. I. Tomescu. Some extremal results concerning the number of graph and hypergraph colorings, *Combinatorics and Graph Theory*, Banach Center Publ. , 25, PWN Pol. Sci. Publ. , Warsaw, 1989, 187-194.
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4. I. Tomescu. *Introducere în Informatică*, Ed. didactică și pedagogică, București, 1994, 96pp.
5. D. M. Bătinețu-Giurgiu, V. Ghiorghită, I. V. Maftai, I. Tomescu, Florica Vornicescu. *Probleme propuse la olimpiadele de matematică pentru licee în România(1950-1990)*, Ed. științifică, București, 1992, 583pp.
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8. A. Leu, I. Tomescu. *Matematică aplicată în tehnica de calcul*, Ed. didactică și pedagogică, București, 1980, 132pp.
9. I. Tomescu. *Teoria Grafurilor*, C. Iacob(ed.). Matematici clasice și moderne, Vol. I, Ed. tehnică, București, 1978, 193-308.
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11. I. Tomescu. *Grafuri și programare liniară (O introducere elementară)*, Ed. didactică și pedagogică, București, 1975, 132pp.

6.5 Monografii

1. I. Tomescu. *Introducere în Combinatorică*, Ed. tehnică, București, 1972, 250pp. ; Versiunea engleză publicată de Colette's, London and Wellingborough, 1975, 249pp. ; Versiunea maghiară publicată de Műszaki Könyvkiado, Budapesta, 1978, 270pp.

6.6 Editor de volume

1. C. Calude, I. Tomescu(eds.). *Lucrările științifice publicate de cadrele didactice din Facultatea de Matematică*, Universitatea din București, 1988, 474 pp.

6.7 Alte contribuții

1. I. Tomescu. Chromatic polynomials, *Gazeta Matematică* 108(2003), 1-8. (in Romanian)
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7 Teze de doctorat conduse

1. Rozica-Maria Tache. *Contributions to the theory of topological indices*, Universitatea din București, 2016.
2. Muhammad Kamran Jamil. *Graph indices and graph products*, GC University, Lahore, Pakistan, 2016.
3. Misbah Arshad. *Extremal graphs with respect to general sum-connectivity index*, GC University, Lahore, Pakistan, 2016.
4. Naveed Akhter. *Classes of graphs having extremal topological indices*, GC University, Lahore, Pakistan, 2016.
5. Laurențiu Silviu Vasile. *Contribuții in teoria bazelor de date*, Universitatea din București, 2015.
6. Sana Javed. *Contributions to chromaticity of graphs and hypergraphs*, GC University, Lahore, Pakistan, 2013.
7. Ayesha Riasat. *Metric dimension and distances in graphs*, GC University, Lahore, Pakistan, 2013.
8. Salma Kanwal. *Extremal graphs with respect to degree distance index*, GC University, Lahore, Pakistan, 2013.
9. Muhammad Imran. *Properties of connected graphs related to metric and partition dimension*, GC University, Lahore, Pakistan, 2011.

10. Ruxandra Marinescu-Ghemeci(Verman). *Partiții și distanțe in grafuri*, Universitatea din București, 2011.
11. Gabriela Mihai(Cristea). *Gestiunea informației distribuite*, Universitatea din București, 2011.
12. Syed Ahtsham Ul Haq Bokhary. *Chromatic polynomial and chromatic uniqueness of spernerian hypergraphs*, GC University, Lahore, Pakistan, 2010.
13. Mircea Adam. *Structuri de date și algoritmi in memoria secundară*, Universitatea din București, 2008.
14. Mohammad Tariq Rahim. *Vertex-magic, vertex-antimagic and multi-level distance labeling of some families of graphs*, GC University, Lahore, Pakistan, 2007.
15. Imran Javaid. *Metric dimension and partition dimension of some families of graphs*, GC University, Lahore, Pakistan, 2007.
16. Akhlaq Ahmad Bhatti. *Chromatic polynomials and chromaticity in graphs and hypergraphs*, GC University, Lahore, Pakistan, 2007.
17. Laura Ciupală. *Algoritmi pentru fluxuri in rețele*, Universitatea din București, 2006.
18. Petrișor Guță. *Probleme de colorare in teoria grafurilor*, Universitatea din București, 2003.
19. Hazim A. Farhan. *Proiectarea și implementarea unui mediu vizual pentru construcția și integrarea sistemelor expert cu diferite sisteme de gestiune a bazelor de date*, Universitatea din București, 2003.
20. Cristina Vertan. *Algorithms with intrinsic parallelism*, Universitatea din București, 2000.
21. Laurențiu Modan. *Metode algebrice in teoria grafurilor și a matroizilor*, Universitatea din București, 1999.
22. Virgil Domocoș. *Funcții generatoare in combinatorică*, Universitatea din București, 1994.
23. Eugen Mândrescu. *Grafuri perfecte și produse de grafuri*, Universitatea din București, 1993.

8 EXPUNERI LA CONFERINȚE

1. *On the chromaticity of sunflower hypergraphs*, Third International Conference on 21st Century Mathematics 2007, School of Mathematical Sciences, GC University, Lahore, Pakistan, March 4-7, 2007.

2. *Extremal and asymptotic properties of irreducible coverings of graphs by cliques*, Second International Conference on 21st Century Mathematics 2005, School of Mathematical Sciences, GC University, Lahore, Pakistan, March 4-6, 2005.
3. *Asymptotic properties of the factors of words over a finite alphabet*, LUMS International Conference on Mathematics and Information Technology, Lahore University of Management Sciences, Lahore, Pakistan, November 27-30, 2005 (key-note speaker).
4. *On the maximum number of irreducible coverings of an n -vertex graph by $n-3$ cliques*, 8th Annual International Conference, COCOON 2002 Singapore, August 15-17, 2002.
5. *On the number of graphs and digraphs with a fixed diameter and connectivity*, Third International Conference on Combinatorics, Computability and Logic (DMTCS' 01), Constanța, 2-6 iulie 2001 (invited speaker).
6. *On the number of large h -hypergraphs with a fixed diameter*, Fifth Czech-Slovak International Symposium on Combinatorics, Graph Theory, Algorithms and Applications, Center for Discrete Mathematics, Theoretical Computer Science and Applications, Praga, 6-11 iulie 1998 (invited speaker).
7. *Minimum Spanning Hypertrees*, Colloquium SALODAYS in Theoretical Computer Science, Universitatea din București, Romania, 1992.
8. *Average Complexity of Some Graph Problems*, PROCOMP' 89, Central Institute for Informatics, București, Romania, 1989.
9. *Decomposition Theorems for the Number of Perfect Matchings in Hexagonal Graphs*, International Conference on Discrete Mathematics, Wustrow, Germany, 1988.
10. *Extremal Results Concerning the Number of Graph and Hypergraph Colorings*, Semester of Combinatorics, Stefan Banach Mathematical Center, Warsaw, Poland, 1987.
11. *Almost All Digraphs Have a Kernel*, Random Graphs'87, Adam Mickiewicz University, Poznań, Poland, 1987.
12. *Romanian Results in Graph Theory*, Computer Center Anniversary Symposium, Bucharest University, Romania, 1987.
13. *New Results in Combinatorics and Graph Theory*, Symposium "Mathematics, Today and Tomorrow", Romanian Academy, Bucharest, Romania, 1983.
14. *The Number of Labeled k -Cyclic Connected Graphs*, The 3rd Congress of Bulgarian Mathematicians, Varna, Bulgaria, 1972.

15. *An Algorithm for Minimizing the Number of States for a Class of Incompletely Specified Sequential Machines*, International Congress of Logic, Philosophy and Metodology of Science, Bucharest, Romania, 1971.
16. *On the Minimum Tests for Symmetric Boolean Functions*, International Symposium IFAC "Hazards in Switching Circuits", Bucharest, Romania, 1968.
17. *A Method of Analysis of Contact Multipoles and its Realization by Computer Technique*, International Symposium "Computational Techniques and Computers", Bucharest, Romania, 1967.

9 CONFERINȚE LA UNIVERSITĂȚI

1. *Some properties of irreducible coverings of graphs by cliques*, Universitatea Națională din Singapore, School of Computing, 2002.
2. *Extremal properties of irreducible coverings of graphs by cliques*, Universitatea din Hamburg, Departamentul de Informatica, 2002.
3. *On words containing all short factors*, Université Claude Bernard-Lyon 1, France, 1999.
4. *Minimum Spanning Hypertrees*, Massey University, Palmerston North, New Zealand, 1995.
5. *Minimum Spanning Hypertrees*, Auckland University, New Zealand, 1995.
6. *Bonferroni Inequalities and Negative Cycles in Large Complete Signed Graphs*, Auckland University, New Zealand, 1995.
7. *Bonferroni Inequalities and Negative Cycles in Large Complete Signed Graphs*, Waikato University, Hamilton, New Zealand, 1995.
8. *Ordered h-Hypertrees*, Mathematical Institute of the Hungarian Academy of Science, Budapest, Hungary, 1990.
9. *Extremal Properties of Chromatic Polynomials*, Bucharest University, Romania, 1987.
10. *Regular Graphs and Cages*, Institute of Atomic Physics, Măgurele, Romania, 1984.
11. *Longest Cycles in Graphs without Complete Subgraphs of a Given Size*, Paris VI University, Paris, France, 1975.
12. *On the Complexity of Sorting Algorithms*, University of Tirana, Albania, 1974.

10 MEMBRU IN COMITETELE DE REDACȚIE ALE UNOR REVISTE

1. *Electronic Journal of Graph Theory and Applications* (din 2012).
2. *Romanian Journal of Information Science and Technology*, București (din 1998).
3. *The Journal of Prime Research in Mathematics*, Lahore, Pakistan (din 2005).
4. *Matematički Vesnik*, Beograd, Yugoslavia (din 1996).
5. *Revue Roumaine de Mathématiques Pures et Appliquées*, București (din 1986).
6. *Bulletin Mathématique de la Soc. des Sci. Math. de Roumanie* (N. S.), București (din 1982).
7. *Analele Universității București, Matematică*, București (din 1978).
8. *Gazeta Matematică*, București (din 1971).

11 ORGANIZATOR DE CONFERINȚE

1. *Semester of Combinatorics*, Stefan Banach Mathematical Center, Warsaw, Poland, September-December, 1987.

12 EVALUATOR EXTERN

1. Referent pentru *Revue Roumaine de Mathématiques Pures et Appliquées*, *Bulletin Mathématique de la Société des Sciences Mathématiques de Roumanie*, *Studii și Cercetări Matematice* (București), *Analele Universității București*, *Gazeta Matematică* (București), *Journal of Graph Theory*, *Discrete Mathematics*, *Discrete Applied Mathematics*, *Random Structures and Algorithms*, *Communications in Mathematical Chemistry* (MATCH), *Graphs and Combinatorics*, *Discussiones Math. Graph Theory*, *J. of Combinatorial Theory (A)*, *Australasian Journal of Combinatorics*, *Electronic Journal of Combinatorics*, *International Journal of Mathematical Sciences*, *Journal of Applied Mathematics & Computing*, *Ars Combinatoria*.
2. Referent pentru *National Colloquium Info-Iași*, Iași [1983], *ROSYCS*, Iași [1996], Conferința internațională *Discrete Mathematics and Theoretical Computer Science*, Dijon, 2003.
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13 MEMBRU IN SOCIETĂȚI PROFESION-ALE

1. Membru corespondent al *Academiei Române* [din 24 noiembrie 2000].
2. Membru al *International Academy of Mathematical Chemistry* [din iunie 2009].
3. *Association for Computing Machinery* [1995-1998].
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3. *Premiul Gheorghe Țițeica*, Academia Română, 1975.
4. *Premiul pentru matematici aplicate*, First Balkan Mathematics Competition for Students and Young Researchers, București, 1971.
5. *Premiul întâi și Premiul al doilea*, Olimpiada Națională de Matematică pentru Studenți, București, 1961 și 1962.