Curriculum Vitae

.

Nom: Chepoi (Cepoi)
Prénom: Victor
Corps/grade: Professor EX1
Discipline/section: Informatique, 27

Current position:

Mémbre senior de l'Institut Universitaire de France, chaire fondamentale (2026-2031)
Professor EX1 at LIS–Laboratoire d'Informatique et Systèmes
Faculté des Sciences, Université d'Aix-Marseille

Office:

Laboratoire d'Informatique et Systèmes,
Faculté des Sciences, Université d'Aix-Marseille,
F-13288 Marseille Cedex 9, France
email: victor.chepoi@lis-lab.fr
web: https://pageperso.lis-lab.fr/ victor.chepoi/

Personal:

Date of birth: August 25, 1961
Place of birth: Izmail, Odessa reg., Ukraine, ex-USSR
Citizenship: France

Education:

Habilitation 1997, "Métriques et convexité dans les graphes et espaces discrèts: propriétés et algorithmes", Faculté des Sciences de Luminy, Université d'Aix-Marseille II
PhD 1987, d-Convex sets in graphs, Fac. of Math. and Computer Sci., Univ of Moldova, defended at the Inst. of Math., Academy of Science of Belarussia
1978-1983, Graduate and Undergraduate studies in Computer Science and Applied Mathematics, State University of Moldova, summa cum laude

Scientific career:

Since 1998, Professeur, Faculté des Sciences, Aix-Marseille Univ
1997–1998, Research fellow, SFB343 "Diskrete Strukturen in der Mathematik", Fakultät für Mathematik, U. Bielefeld, Germany
1995–1997, Visiting professor, Laboratoire de Biomathématiques, Faculté de Medecine, U. Aix–Marseille II
1994–1995, Alexander von Humboldt fellowship, Math. Seminar, U. Hamburg, Germany
1989-1995, Assistant and Associate professor, Fac. of Math. and Computer Science, State Univ. of Moldova
1986–1988, Research assistant, Discrete Optimization Lab. Fac. of Math. and Computer Science, State Univ. of Moldova

National and international outreach:

Awards and honors:

- Senior member of Institut Universitaire de France, fundamental chair (2026-2031)
- One-semester of "delegation CNRS" in 2024–2025
- Coordinator of the ANR grant MIMETIQUE (Mineurs Métriques), November 2025–November 2029.
- Coordinator of the ANR grant DISTANCIA (Metric Graph Theory, ANR-17-CE40-0015), 2018–2022 (one year of extension due to COVID).
- PEDR and PES between 2004 and 2018 and RIPEC between 2022 and 2025

- Alexander von Humboldt fellowship in 1994–1995
- Carrier prize for young researchers, State University of Moldova in 1988

Editorial Boards and Program Committees:

- Member of the Editorial Board of "Annals of Combinatorics" (Springer) since 2020
- Member of Program Committee of 15 international conferences and member of Organisational Committee of 6 conferences and workshops

Invitations to foreign and French Universities:

- Simons Professor, Simons Semester "Geometric and Analytic Group Theory", 01.04.2019 - 15.07.2019, Warsaw
- Visiting professor, 1995–1997 (2 years) Laboratoire de Biomathématiques, Faculté de Medecine, U. Aix–Marseille II
- Visiting professor, 1992–1993 (5 months) Department of Mathematics and Computer Science, Babeş-Bolyai University, Cluj-Napoca, România
- Visiting professor, 2005 (1 month) U. of Kent, USA
- Visiting researcher, 1996 (2 months) U. Rostock and 2003 (1 month) U. Hamburg, Germany
- More than 15 short (one-two weeks) invitations and 3 long (one-two months) invitations by foreign universities (U. Barcelona (4 visits), U. Würzburg, U. Wroclaw, U. Durham, U. Edinburgh, U. Copenhagen (2 times), U. Oxford, U. Kerala, U. Princeton, U. of Minessota, BIRS (Banff), U. Copenhagen (2 visits), U. Bielefeld (2 visits), U. Leipzig, U. Jena, etc. Six short visits were done in 2024–2025.
- About 10 short (one week) visits at French universities (U. Montpelier (2 times), U. Grenoble (2 times), U. Orsay, U. Paris VII, ENS Lyon, ENS Paris (2 times), INRIA Sophia Antipolis, U. Bordeaux, U. Toulouse)

University and community service:

- Member of CES 40 and 48 "Mathématiques, informatique théorique, automatique et traitement du signal" of ANR in 2018, 2019, and 2020
- Member of the selection committee of the "Chaire Jean-Morlet" of CIRM in 2021
- Referee of 15 PhD theses, 10 HDR theses and member of 67 defence committees
- Member of "Conseil du pole Calcul du LIS" between 2017 and 2023 and of 'Conseil de direction du LIF", 2000-2016
- Member of the Scientific Committee of the Faculté des Sciences de Luminy, 2002–2012
- Member of the "Conseil de la faculté des Sciences de Luminy" 2009–2012,
- Member of the committee of doctoral theses of "Ecole Doctorale Math-Info de Marseille", 2007–2013

Scientific leadership:

Direction and advising:

- 2000–2006 and 2008–July 2023, Team leader of the research team Algorithmique, Combinatoire et Recherche Operationelle (ACRO) of LIF/LIS starting from its creation in 2000 (15 permanent members)
- 2001-2012, Co-director of the graduate program "Master Recherche en Informatique Fondamentale de Marseille" (first, called DEA d'Informatique comprising Marseille, Avignon, Toulon, and La Réunion)
- Direction of the PhD theses of Karim Nouioua, Bertrand Estellon, Morgan Seston, Nicolas Catusse, Daniela Maftuleac, Sébastien Ratel, Manon Philibert, Laurine Bénéteau, Mikhael Carmona, and Julien Cocquet. Karim Nouioua and Manon Philibert got the prize of the best PhD thesis in Computer Science
- Advisor of 3 Postdocs advisor, 16 master theses (M2 Recherche), and 6 internships of ENS students
- Garant of 4 HDRs.

Grants:

- 2025-2029 Coordinator of the ANR grant MIMETIQUE "Mineurs Métriques" (14 members, 3 partners, 1 PhD, 1 Postdoc, 357 804 euros)
- 2024-2025, Coordinator (french part) of franco-roumanian grant Brancusi LoSST Locality Study of Some network Tasks
- 2017-2023, Coordinator of the ANR grant DISTANCIA "Théorie Métrique des Graphes" (24 members, 2 partners, 2 Postdocs, 320 704,64 euros)
- 2015 Coordinator of the ARCHIMEDE LabEx (ANR-11-LABX- 0033) and the A∗MIDEX project (ANR-11-IDEX-0001-02) funded by the "Investissements d'Avenir" (17 000 euros)
- 2010–2015 Local coordinator of the ANR Programme blanc GGAA "Aspects Géométriques, Analytiques et Algorithmiques des Groupes" (10 participants, 2 postdocs, 170.000 euros). I was the local coordinator for the pole from Marseille: 3 participants plus a postdoc
- 2010–2014 ANR Programme blanc TEOMATRO "Nouvelles Tendances dans les Matroides : Polytopes des bases, Structures, Algorithmes et Interactions" (8 participans, 1 postdoc, 344 285 euros, coodrinator: J. Ramirez-Alphonsin)
- 2011–2012 Cordinator of the Projet EGIDE "Distances, structure and products of graphs" with University of Maribor, Slovenia (10.000 euros)
- 2006–2011 ANR Programme blanc OPTICOMB "Combinatorial Optimization: Theory, Algorithms, and Applications" OPTICOMB (12 membres, 1 PhD, 1 postdoc, 250 000 euros, coordinator: G. Cornuejols).
- 1994–1996 Volkswagen Foundation (VW) Grant "Efficient Algorithms for graphs with maximum neighbourhood orderings" (coordinator A. Brandstädt, 300 000 euros)

Research interests:

- Metric graph theory (with applications to geometry, combinatorics, and computer science). Structure and algorithmics of metric spaces.
- Combinatorial, metric, geometric, topological, and algorithmic aspects of combinatorial structures (matroids and oriented matroids and their generalizations, cubical and simplicial complexes, event structures, convex structures, point-line geometries, packing and covering problems, sample compression schemes). Efficient and approximation algorithms for NP-hard and polynomial problems.

Scientific production: 1 monograph, 132 papers in international journals, 30 papers in proceedings of international conferences, 2 chapters in edited monographs, 6 papers in university journals, 5 submitted papers. Most of my papers are available at https://pageperso.lis-lab.fr/ victor.chepoi/papers.html

Publication List

Monograph

[1] Weakly modular graphs and nonpositive curvature, (with J. Chalopin, H. Hirai, and D. Osajda), *Memoirs of American Mathematical Society*, 268 (2020), no 1309, 159 pp..

Articles in peer-reviewed journals

[2] Geometry of convex geometries (with J. Chalopin and K. Knauer), *Discrete Comput. Geom.* (2025). https://doi.org/10.1007/s00454-025-00716-7.

[3] Modules and PQ-trees in Robinson spaces (with M. Carmona, G. Naves, P. Préa), *Information and Computation*, 304 (2025), 105300.

[4] Helly groups (with J. Chalopin, A. Genevois, H. Hirai, and D. Osajda), *Geometry and Topology*, 29 (2025), 1-70.

[5] Boundary rigidity of CAT(0) cube complexes (with J. Chalopin), *J. Combin. Th. Ser. B* 169 (2024) 352–366.

[6] Labeled sample compression schemes for complexes of oriented matroids (with K. Knauer and M. Philibert), *J. Comput. Syst. Sci.* 144 (2024), 103543.

[7] First-Order Logic Axiomatization of Metric Graph Theory, (with J. Chalopin, M. Changat, J. Jacob), *Theor. Comput. Sci.* 993 (2024), 114460.

[8] $ABC(T)$ graphs: an axiomatic characterization of the median procedure in graphs with connected and G^2-connected medians (with L. Bénéteau, J. Chalopin, and Y. Vaxès), *Discret. Appl. Math.* 359 (2024), 55–74.

[9] Modules in Robinson spaces (with M. Carmona, G. Naves, and P. Préa), *SIAM J. Discret. Math.* 38 (2024), 190–224.

[10] Two simple but efficient algorithms to recognize Robinson dissimilarities (with M. Carmona, G. Naves, P. Préa), *J. Classif.* 41 (2024), 455–479.

[11] Graphs with G^p-connected medians (with L. Bénéteau, J. Chalopin, and Y. Vaxès), *Math. Program., ser B*) 203 (2024), 369–420.

[12] Graphs with convex balls (with J. Chalopin and U. Giocanti), *Geometriae Dedicata*, 217, (2023) article number 67.

[13] Sample compression schemes for balls in graphs (with J. Chalopin, F. McInerney, S. Ratel, and Y. Vaxès), *SIAM J. Discret. Math.* 37 (2023), 2585–2616. (2022).

[14] A simple and optimal algorithm for strict circular seriation (with M. Carmona, G. Naves, and P. Préa), *SIAM J. Math. Data Sci.* 5 (2023), 201-221.

[15] Distance labeling schemes for K4-free bridged graphs (with A. Labourel, and S. Ratel), *Information and Computation*, 289 (2022): 104959.

[16] Ample completions of OMs and CUOMs (with K. Knauer and M. Philibert), *SIAM J. Discret. Math.*, 36 (2022), 509–535.

[17] Unlabeled sample compression schemes and corner peelings for ample and maximum classes (with J. Chalopin, S. Moran, and M. Warmuth), *J. Comput. Syst. Sci.*, 127 (2022), 1–28.

[18] Medians in median graphs in linear time (with L. Bénéteau, J. Chalopin, and Y. Vaxès), *J. Comput. Syst. Sci.*, 126 (2022), 80–105.

[19] Distance and routing labeling schemes for cube-free median graphs (with A. Labourel and S. ratel), *Algorithmica* 83(1): 252-296 (2021).

[20] Fast approximation and exact computation of negative curvature parameters of graphs (with J. Chalopin, F. Dragan, G. Ducoffe, A. Mohammed, and Y. Vaxès), *Discrete Comput. Geom.* 65(3): 856-892 (2021).

[21] Two-dimensional partial cubes (with K. Knauer and M. Philibert), *Electron. J. Comb.* 27(3): P3.29 (2020).

[22] A counterexample to Thiagarajan's conjecture (with J. Chalopin), *J. Comput. Syst. Sci.* 113 (2020), 76-100.

[23] On density of subgraphs of Cartesian products, (with A. Labourel and S. Ratel), *J. Graph Theory* 93 (2020), 64–87.

[24] Partial cubes without Q_3^- minors (with K. Knauer and T. Marc), *Discret. Math.* 343(4): 111678 (2020).

[25] 1-Safe Petri nets and special cube complexes: equivalence and applications (with J. Chalopin), *ACM Transactions on Computational Logic*, Vol. 20, No. 3, 2019 Article 17, 49 pages.

[26] Fast approximation of centrality and distances in hyperbolic graphs (with F. Dragan, M. Habib, Y. Vaxès, H. Al-Rasheed), *Journal of Graph Algorithms and Applications* 23 (2019), pp.393-433.

[27] COMs: complexes of oriented matroids, (with H.–J. Bandelt and K. Knauer), *J. Combin. Th. Ser. A*, 156 (2018), 195—237.

[28] On density of subgraphs of halved cubes (with A. Labourel and S. Ratel), *Europ. J. Combin.* 80 (2019), 57–70.

[29] Distance–preserving subgraphs of Johnson graphs, *Combinatorica* 37 (2017), 1039—1055.

[30] Packing and covering with balls on Busemann surfaces (with B. Estellon, and G. Naves), *Discr. Comput. Geom.*, **57** (2017), 985–1011.

[31] Bidirected minimum Manhattan network problem (with N. Catusse, K. Nouioua, and Y. Vaxès), *Networks,* **69** (2017), 167–178.

[32] Dismantlability of weakly systolic complexes and applications (with D. Osajda), *Trans. Amer. Math. Soc.* **367** (2015), 1247–1272.

[33] Isometric embedding of Busemann surfaces into L_1 (with J. Chalopin and G. Naves), *Discr. Comput. Geom.* **53** (2015), 16–37.

[34] On two conjectures of Maurer concerning basis graphs of matroids (with J. Chalopin and D. Osajda), *J. Combin. Th. Ser.* **B 114** (2015), 1–32.

[35] Ramified rectilinear polygons: coordinatization by dendrons (with H.–J. Bandelt and D. Eppstein), *Discr. Comput. Geom.*, 54 (2015), 771–797.

[36] Cop and robber game and hyperbolicity (with J. Chalopin, P. Papasoglu, and T. Pecatte), *SIAM J. Discr. Math.* **28** (2014), 1987–2007.

[37] Bucolic complexes (with B. Brešar, J. Chalopin, T. Gologranc, and D. Osajda), *Adv. Math.* **243** (2013), 127–167.

[38] On embeddings of CAT(0) cube complexes into products of trees via colouring their hyperplanes (with M. Hagen), *J. Combin. Th. Ser.* **B 103** (2013), 428–467.

[39] Approximating hitting sets of axis–parallel rectangles with opposite corners separated by a monotone curve (with S. Felsner), *Comput. Geom.*, **46** (2013), 1036–1041.

[40] Shortest path problem in rectangular complexes of global nonpositive curvature (with D. Maftuleac), *Comput. Geom.*, **46** (2013), 51–64.

[41] Retracts of products of chordal graphs (with B. Brešar, J. Chalopin, M. Kovse, A. Labourel, and Y. Vaxès), *J. Graph Th.* **73** (2013), 161–180.

[42] Nice labeling problem for event structures: a counterexample, *SIAM J. Computing* **41** (2012), 715–727.

[43] Minimum Manhattan network problem in normed planes with polygonal balls: a factor 2.5 approximation algorithm (with N. Catusse, K. Nouioua, and Y. Vaxès), *Algorithmica* **62** (2012), 551–567.

[44] Additive spanners and distance and routing labeling schemes for delta-hyperbolic graphs (with F. Dragan, B. Estellon, M. Habib, Y. Vaxès, and Y. Xiang), *Algorithmica* **62** (2012), 713–732.

[45] A self–stabilizing algorithm for the median problem in partial rectangular grids and their relatives (with T. Févat, E. Godard, and Y. Vaxès), *Algorithmica* **62** (2012) 146–168.

[46] Constant approximation algorithms for embedding graph metrics into trees and outerplanar graphs (with F. Dragan, I. Newman, Y. Rabinovich, and Y. Vaxès), *Discr. Comput. Geom.* **47** (2012), 187–214.

[47] Seriation in the presence of errors: an approximation algorithm for fitting Robinson structures to dissimilarity matrices (with M. Seston), *Algorithmica* **59** (2011) 521–568.

[48] Cop and robber games when the robber can hide and ride (with J. Chalopin, N. Nisse, and Y. Vaxès), *SIAM J. Discr. Math.* **25** (2011), 333–359.

[49] Embedding into the rectilinear plane in optimal $O(n^2)$ time (with N. Catusse and Y. Vaxès), *Theor. Comp. Sci.* **412** (2011), 2425–2433.

[50] Combinatorics and geometry of finite and infinite squaregraphs (with H.–J. Bandelt and D. Eppstein), *SIAM J. Discr. Math.* **24** (2010), 1399–1440.

[51] Helly property and satisfiability of Boolean formulas defined on set systems (with N. Creignou, M. Hermann, and G. Salzer), *Europ. J. Combin.*, **31** (2010), 502–516.

[52] Pareto envelopes in simple polygons (with K. Nouioua, E. Thiel and Y. Vaxès), *Int. J. Comput. Geom. Appl.* **20** (2010), 707–721.

[53] Seriation in the presence of errors: NP-hardness of l_∞-fitting Robinson structures to dissimilarity matrices (with B. Fichet and M. Seston), *J. Classification* **26** (2009), 279–296.

[54] Approximation algorithms for forests augmentation ensuring two disjoint paths of bounded length (with B. Estellon and Y. Vaxès), *Theor. Comp. Sci.* **401** (2008) 131–143.

[55] A rounding algorithm for approximating minimum Manhattan networks (with K. Nouioua and Y. Vaxès), *Theor. Comp. Sci.* **390** (2008) 56–69.

[56] Metric graph theory and geometry: a survey (with H.–J. Bandelt), Surveys on Discrete and Computational Geometry: Twenty Years Later, J.E. Goodman, J. Pach, and R. Pollack (eds), *Contemporary Mathematics*, **453** (2008), pp. 49–86.

[57] The algebra of metric betweenness II: axiomatics of weakly median graphs (with H.–J. Bandelt), *Europ. J. Combin.* **29** (2008), 676-700.

[58] The algebra of metric betweenness I: subdirect representation and retracts (with H.–J. Bandelt), *Europ. J. Combin.* **28** (2007), 1640–1661.

[59] Basis graphs of even Delta–matroids. *J. Combin. Th. Ser* **B 97** (2007), 175–192.

[60] On covering planar graphs with a fixed number of balls (with B. Estellon and Y. Vaxès), *Discr. Comput. Geom.* **37** (2007), 237–244.

[61] Mixed covering of trees and the augmentation problem with odd diameter constraints (with B. Estellon, K. Nouioua, and Y. Vaxès), *Algorithmica* **45** (2006), 209–226.

[62] Distance and routing problems in plane graphs of non-positive curvature (with F. Dragan and Y. Vaxès), *J. Algorithms* **61** (2006), 1–30.

[63] Combinatorics of lopsided sets (with H.–J. Bandelt, A. Dress, and J. Koolen), *Europ. J. Combin.*, **27** (2006), 669–689.

[64] Addressing, distances and routing in triangular systems with applications in cellular and sensor networks (with F. Dragan and Y. Vaxès), *Wireless Networks* **12** (2006), 671–679.

[65] Additive sparse spanners for graphs with bounded length of largest induced cycle (with F. Dragan and C. Yan), *Theor. Comp. Sci.* **347** (2005) 54–75.

[66] Median problem in some plane triangulations and quadrangulations (with C. Fanciullini and Y. Vaxès), *Comput. Geom.* **27** (2004), 193–210.

[67] 1–Hyperbolic graphs (with H.–J. Bandelt), *SIAM J. Discr. Math.* **16** (2003), 323–334.

[68] Covering plane bridged triangulations with balls (with Y. Vaxès), *J. Graph Th.* **44** (2003), 65–80.

[69] Finding a central vertex in HHD-free graphs (with F. Dragan), *Discr. Appl. Math.* **131** (2003), 93–111.

[70] Interval routing in some planar networks (with A. Rollin), *Theor. Comp. Sci.* **290** (2003), 1503–1540.

[71] Updrading trees under diameter and budget constraints (with H. Noltemeier and Y. Vaxès), *Networks* **41** (2003), 24–35.

[72] Graphs with connected medians (with H.–J. Bandelt), *SIAM J. Discr. Math.* **16** (2002), 268–282.

[73] Augmenting trees to meet connectivity and diameter constraints (with Y. Vaxès), *Algorithmica* **33** (2002), 243–262.

[74] Graphs of some CAT(0) complexes, *Adv. Appl. Math.* **24** (2000), 125–179.

[75] A note on distance approximating trees (with F. Dragan), *Europ. J. Combin.* **21** (2000), 761–766.

[76] A characterization of minimizable metrics in the multifacility location problem (with H.–J. Bandelt and A. Karzanov), *Europ. J. Combin.* **21** (2000), 715–725.

[77] Decomposition and l_1–embedding of weakly median graphs (with H.–J. Bandelt), *Europ. J. Combin.* **21** (2000), 701–714.

[78] l_∞–Approximation via subdominants (with B. Fichet), *J. Mathematical Psychology* **44** (2000), 600–616.

[79] Distance approximating trees for chordal and dually chordal graphs (with A. Brandstädt and F. Dragan), *J. Algorithms* **30** (1999) 166–184.

[80] On distance–preserving and domination orderings, *SIAM J. Discr. Math.* **11** (1998), 414–436.

[81] Dually chordal graphs (with A. Brandstädt, F. Dragan and V. Voloshin), *SIAM J. Discr. Math.* **11** (1998) 437–455.

[82] Embedding into the rectilinear grid (with H.–J. Bandelt), *Networks* **32** (1998), 127–132.

[83] Embedding into rectilinear spaces (with H.–J. Bandelt and M. Laurent), *Discr. Comput. Geom.* **19** (1998), 595–604.

[84] Distances in benzenoid systems: further developments (with S. Klavžar) *Discr. Math.* **192** (1998), 27–39.

[85] A note on r–dominating clique problem, *Discr. Math.* **183** (1998), 47–60.

[86] The algorithmic use of the hypertree structure and maximum neighbourhood orderings (with A. Brandstädt and F. Dragan), *Discr. Appl. Math.* **83** (1998) 121–155.

[87] A note on circular decomposable metrics (with B. Fichet), *Geometriae Dedicata* **69** (1998), 237–240.

[88] Clique r–domination and clique r–packing problems on dually chordal graphs (with A. Brandstädt, F. Dragan), *SIAM J. Discr. Math.* **10** (1997), 109–127.

[89] A T_X approach to some results on cuts and metrics, *Adv. Appl. Math.* **19** (1997), 453–470.

[90] Bridged graphs are cop–win graphs: an algorithmic proof, *J. Combin. Th. Ser* **B 69** (1997), 97–100.

[91] Peakless functions on graphs, *Discr. Appl. Math.* **73**(2) (1997), 175–189.

[92] Recognition of Robinsonian dissimilarities (with B. Fichet), *J. Classification* **14** (1997), 311–325.

[93] Clin d'oeil on L_1–embeddable planar graphs (with M. Deza and V. Grishukhin), *Discr. Appl. Math.* **80** (1997), 3–19.

[94] The Wiener index and the Szeged index of benzenoid systems in linear time (with S. Klavžar), *J. Chemical Information and Computer Sciences* **37** (1997), 752–755.

[95] Fuzzy clustering with cluster interconnections (with D. Dumitrescu), *Fuzzy Sets and Systems* (1997).

[96] A multifacility location problem on median spaces, *Discr. Appl. Math.* **64** (1996), 1–29.

[97] On staircase starshapedness in rectilinear spaces, *Geometriae Dedicata* **63** (1996), 321–329.

[98] On distances in benzenoid systems, *J. Chemical Information and Computer Sciences* **36** (1996), 1169–1172.

[99] Embedding metric spaces in the rectilinear plane: a six–point criterion (with H.–J. Bandelt), *Discr. Comput. Geom.* **15** (1996), 107–117.

[100] Graphs of acyclic cubical complexes (with H.–J. Bandelt), *Europ. J. Combin.* **17** (1996), 113–120.

[101] Cellular bipartite graphs (with H.–J. Bandelt), *Europ. J. Combin.* **17** (1996), 121–134.

[102] A Helly theorem in weakly modular spaces (with H.–J. Bandelt), *Discr. Math.* **125** (1996) 25–39.

[103] Tverberg numbers for cellular bipartite graphs (with O. Topală), *Archiv der Mathematik* **66** (1996), 258–264.

[104] L_1–embeddability of rectilinear polygons with holes (with A. Patlatîi, C. Prisăcaru), *J. Geometry* **56** (1996), 15–24.

[105] Perfect elimination orderings of chordal powers of graphs, (with A. Brandstädt, F. Dragan), *Discr. Math.* **124** (1996), 273–278.

[106] Condorcet and median points of simple rectilinear polygons (with F. Dragan), *Location Science* **4** (1996) 21–35.

[107] On starshapedness in products of interval spaces, *Archiv der Mathematik* **64** (1995), 264–268.

[108] Separation of two convex sets in convexity structures, *J. Geometry* **50** (1994), 30–51.

[109] Computing the median point of a simple rectilinear polygon (with F. Dragan), *Information Processing Letters* **49** (1994), 281–285.

[110] A linear time algorithm for computing the link central point of a simple rectilinear polygon (with F. Dragan), *Russian J. Operations Research* **2** (1994) (English).

[111] Computing the link diameter of a simple rectilinear polygon in linear time (with F. Dragan), *Computer J. of Moldova* **1(3)** (1993) 62–74 (English).

[112] On a property of a space of orderings, *Automation and Remote Control* **8** (1993), 131–136 (Russian).

[113] The Helly property of graphs and facility location problems (with F. Dragan, Ch. Prisăcaru), *Discrete Mathematics, Moscow* **4** (1992), 67–73 (Russian).

[114] Solving the generalized Weber problem for discrete median spaces, *Cybernetics* **1** (1991), 61–69 (Russian, English transl.).

[115] Properties of pseudo–median graphs (with F. Dragan), *Operations Reserch and Managment Science, Kiev* **37** (1992), 47–54 (Russian).

[116] A general method of investigation of characteristic of graphs related with eccentricity (with S. Yusmanov), *Mathematical Problems of Cybernetics, Moscow* **3** (1991), 217–232 (Russian).

[117] Medians of pseudo–median graphs (with F. Dragan), *Operations Research and Managment Science, Kiev* **35** (1991), 47–56 (Russian).

[118] Starshapedness in metric spaces and graphs (with V. Gharibi, P. Soltan), *Reports of A. Vecua Institute of Appl. Math. Tbilissi State University* **21** (1991), 31–53 (Russian).

[119] On embedding of planar graphs in hypercubes (with Ch. Prisăcaru, P. Soltan), *Bul. Acad. Sci. Rep. Moldova* **1** (1990), 33–40 (Russian).

[120] On a decomposing of a polyhedron into parallelelipipeds (with A. Prisăcari, P. Soltan), *Dokl. Acad. Sci. Bellorussian SSR* **34** (1990), 876–879 (Russian).

[121] Classifying graphs by metric triangles, *Methods of Discrete Analysis, Novossibirsk* **49** (1989), 75–93 (Russian).

[122] Centers of triangulated graphs, *Mathematical Notes* **43** (1988), 143–151 (Russian, English transl.).

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