

A list of publications by A. B. Skopenkov (excluding abstracts).

1. Main research papers.

- [Sk95] A. Skopenkov, *A description of continua basically embeddable in \mathbb{R}^2* , *Topol. Appl.* **65** (1995), 29–48.
- [RSS96] D. Repovš, A. B. Skopenkov and E. V. Ščepin, *C^1 -homogeneous compacta in \mathbb{R}^n are C^1 -submanifolds of \mathbb{R}^n* , *Proc. Amer. Math. Soc.* **124:4** (1996), 1219–1226.
- [Sk97] A. B. Skopenkov, *On the deleted product criterion for embeddability of manifolds in \mathbb{R}^m* , *Comment. Math. Helv.* **72** (1997), 543–555.
- [Sk98] A. B. Skopenkov, *On the deleted product criterion for embeddability in \mathbb{R}^m* , *Proc. Amer. Math. Soc.* **126:8** (1998), 2467–2476.
- [RS98] D. Repovš and A. B. Skopenkov, *A deleted product criterion for approximability of a map by embeddings*, *Topol. Appl.* **87** (1998), 1–19.
- [SSS] J. Segal, A. Skopenkov and S. Spieß, *Embeddings of polyhedra in \mathbb{R}^m and the deleted product obstruction*, *Topol. Appl.* **85** (1998), 225–234.
- [RS99] D. Repovš and A. Skopenkov, *New results on embeddings of polyhedra and manifolds into Euclidean spaces*, *Uspekhi Mat. Nauk* **54:6** (1999), 61–109 (in Russian); *English transl.*, *Russ. Math. Surv.*, 1149–1196.
- [Sk00] A. Skopenkov, *On the generalized Massey–Rolfen invariant for link maps*, *Fund. Math.* **165** (2000), 1–15.
- [Sk02] A. Skopenkov, *On the Haefliger–Hirsch–Wu invariants for embeddings and immersions*, *Comment. Math. Helv.* **77** (2002), 78–124.
- [Sk07] A. Skopenkov, *A new invariant and parametric connected sum of embeddings*, *Fund. Math.* **197** (2007), 253–269; arxiv:math/0509621.
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- [Sk08'] A. Skopenkov, *A classification of smooth embeddings of 3-manifolds in 6-space*, *Math. Zeitschrift* **260:3** (2008), 647–672; arxiv:math/0603429.
- [Sk10] A. Skopenkov, *A classification of smooth embeddings of 4-manifolds in 7-space, I*, *Topol. Appl.* **157** (2010), 2094–2110; arxiv:math/0512594.
- [Sk10'] A. Skopenkov, *Embeddings of k -connected n -manifolds into R^{2n-k-1}* , *Proc. Amer. Math. Soc.* **138** (2010), 3377–3389; arxiv:0812.0263.
- [CS11] D. Crowley and A. Skopenkov, *A classification of smooth embeddings of 4-manifolds in 7-space, II*, *Internat. J. Math.* **22:6** (2011), 731–757; arxiv:0808.1795.
- [Sk14] A. Skopenkov, *How do autodiffeomorphisms act on embeddings*, *Proc. A of the Royal Society of Edinburgh* **148:4** (2018), 835–848; arxiv:1402.1853.
- [Sk15] A. Skopenkov, *Classification of knotted tori*, *Proc. A of the Royal Society of Edinburgh* **150:2** (2020), 549–567; arxiv:1502.04470.
- [Sk16] A. Skopenkov, *A user's guide to the topological Tverberg conjecture*, *Russian Math. Surveys*, **73:2** (2018), 323–353; arxiv:1605.05141. §4 accessible as A. Skopenkov, *On van Kampen–Flores, Conway–Gordon–Sachs and Radon theorems*, arXiv:1704.00300.
- [ST17] A. Skopenkov and M. Tancer, *Hardness of almost embedding simplicial complexes in \mathbb{R}^d* , *Discr. and Comp. Geom.* **61:2** (2019), 452–463; arXiv:1703.06305.
- [AMS+] S. Avvakumov, I. Mabillard, A. Skopenkov and U. Wagner, *Eliminating Higher-Multiplicity Intersections, III. Codimension 2*, *Israel J. Math.*, to appear; arxiv:1511.03501.
- [CS16] D. Crowley and A. Skopenkov, *Embeddings of non-simply-connected 4-manifolds in 7-space, I. Classification modulo knots*, *Moscow Math. J.*, to appear; arxiv:1611.04738.
- [CS16'] D. Crowley and A. Skopenkov, *Embeddings of non-simply-connected 4-manifolds in 7-space, II. On the smooth classification.*, submitted; arxiv:1612.04776.

- [Sk17] A. Skopenkov, *Eliminating higher-multiplicity intersections in the metastable dimension range*, submitted; arXiv:1704.00143.
- [AKS] S. Avvakumov, R. Karasev and A. Skopenkov., *Stronger counterexamples to the topological Tverberg conjecture*; arXiv:1908.08731.

2. Other research papers.

- [RSS93] D. Repovš, A. B. Skopenkov and E. V. Ščepin, *A characterization of C^1 -homogeneous subsets of the plane*, Boll. Unione Mat. Ital. **7-A** (1993), 437–444.
- [Sk94] A. Skopenkov, *A geometric proof of the Newirth theorem on thickenings of 2-polyhedra*, Mat. Zametki **56:2** (1994), 94–98 (in Russian); English transl.: Math. Notes, 58:5 (1995), 1244–1247.
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- [RS96] D. Repovš and A. B. Skopenkov, *Embeddability and isotopy of polyhedra in Euclidean spaces*, Trudy Math. Inst. Ross. Akad. Nauk **212** (1996); Proc. of the Steklov Inst. Math. **212** (1996), 173–188.
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- [RS99''] D. Repovš and A. B. Skopenkov, *Borromean rings and embedding obstructions (in Russian)*, Trudy Math. Inst. Ross. Akad. Nauk **225** (1999), 331–338; English transl.: Proc. of the Steklov Inst. Math. **225** (1999), 314–321.
- [BRS] D. Repovš, N. Brodsky and A. B. Skopenkov, *A classification of 3-thickenings of 2-polyhedra*, Topol. Appl. **94** (1999), 307–314.
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- [ORS01] A. Onischenko, D. Repovš and A. Skopenkov, *Resolutions of 2-polyhedra by fake surfaces and embeddings into \mathbb{R}^4* , Contemporary Math. **288** (2001), 396–400.
- [ARS02] P. Akhmetiev, D. Repovš and A. Skopenkov, *Obstructions to approximating maps of n -manifolds into \mathbb{R}^{2n} by embeddings*, Topol. Appl. **123** (2002), 3–14.
- [RS02] D. Repovš and A. Skopenkov, *On projected embeddings and desuspension of the α -invariant*, Topol. Appl. **124** (2002), 69–75; (North-Holland, Elsevier).

- [MRS] J. Malešič, D. Repovš and A. Skopenkov, *On incompleteness of the deleted product obstruction for embeddings*, Bol. Soc. Mat. Mexicana (3) **9** (2003), 165–170.
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- [RSS05] D. Repovš, A. Skopenkov and F. Spaggiari, *An infinite sequence of non-realizable weavings*, Discr. Appl. Math. **150:1-3** (2005), 256–260.
- [GS06] D. Gonçalves and A. Skopenkov, *Embeddings of homology equivalent manifolds with boundary*, Topol. Appl. **153:12** (2006), 2026–2034; arxiv:1207.1326.
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- [Sk07'] A. Skopenkov, *A characterization of submanifolds by a homogeneity condition*, Topol. Appl. **154** (2007), 1894–1897; arxiv:math/0606470.
- [GS14] D. Gonçalves and A. Skopenkov, *A useful lemma on equivariant maps*, Homology, Homotopy and Applications, **16:2** (2014), 307–309.
- [Sk16'] A. Skopenkov, *Stability of intersections of graphs in the plane and the van Kampen obstruction*, Topol. Appl. **240** (2018) 259–269, arxiv:1609.03727.
- [Sk18] A. Skopenkov. *Invariants of graph drawings in the plane*, Arnold Math. J., **6** (2020) 21–55, full version: arXiv:1805.10237.
- [Sk18o] A. Skopenkov. *A short exposition of S. Parsa's theorem on intrinsic linking and non-realizability*, Discr. and Comp. Geom., to appear, full version: arXiv:1808.08363.
- [SC] A. Skopenkov, *Embeddings in Euclidean space: an introduction to their classification*, http://www.map.mpim-bonn.mpg.de/Embeddings_in_Euclidean_space:_an_introduction_to_their_classification, Boll. Man. Atl., to appear.
- [SE] A. Skopenkov, *Embeddings just below the stable range: classification*, Boll. Man. Atl., to appear.
http://www.map.mpim-bonn.mpg.de/Embeddings_just_below_the_stable_range:_classification
- [ST] A. Skopenkov, *3-manifolds in 6-space*, Boll. Man. Atl., to appear.
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- [SF] A. Skopenkov, *4-manifolds in 7-space*, Boll. Man. Atl., to appear.
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- [SH] A. Skopenkov, *High codimension links*, Boll. Man. Atl., to appear.
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- [AMS'+]S. Avvakumov, I. Mabillard, A. Skopenkov and U. Wagner, *Eliminating Higher-Multiplicity Intersections, III. Codimension 2 (extended abstract)*, Russian Math. Surveys, to appear.
- [Sk20u] A. Skopenkov, *A user's guide to knot and link theory*, Contemp. Math., to appear, arXiv:2001.01472.
- [Sk14'] A. Skopenkov, *Realizability of hypergraphs and Ramsey link theory*, arxiv:1402.0658
- [Sk17o] A. Skopenkov, *On the metastable Mabillard-Wagner conjecture*, arXiv:1702.04259.
- [PS20] S. Parsa and A. Skopenkov. *On embeddability of joins and their 'factors'*, submitted, arXiv:2003.12285.
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2A. Complements to math reviews

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A. Skopenkov, A short exposition of the Levine-Lidman example of spineless 4-manifolds, arXiv:1911.07330.

A. Skopenkov, On some results of S. Abramyan and T. Panov, arXiv:2005.11152.

3. Pedagogical books (mostly in Russian)

[Sk09] A. Skopenkov, Basic Differential Geometry As a Sequence of Interesting Problems, in Russian, MCCME, Moscow, 2009, 2010, 2016. arxiv:0801.1568

[ZPS09] Mathematics via problems, editors: A. Zaslavsky, D. Permyakov, A. Skopenkov, M. Skopenkov and A. Shapovalov. MCCME, Moscow, 2009.

[Sk12] A. Skopenkov, Ambient Homogeneity, MCCME, Moscow, 2012, arxiv:1003.5278.

[Sk15] A. Skopenkov, Algebraic Topology From Geometric Viewpoint, MCCME, Moscow, 2015, 2020. <http://www.mccme.ru/circles/oim/home/combtop13.htm#photo>

[CDG16] A. Chernov, A. Daynyak, A. Glibichuk, M. Ilyinskiy, A. Kupavskiy, A. Raigorodskiy and A. Skopenkov, Elements of Discrete Mathematics As a Sequence of Problems, MCCME, Moscow, 2016. Update: <http://www.mccme.ru/circles/oim/discrbook.pdf>

[ZSS18] Mathematics via problems: from olympiades and math circles to a profession, editors: A. Zaslavsky, A. Skopenkov, and M. Skopenkov. MCCME, Moscow, 2018. <http://www.mccme.ru/circles/oim/sturm.pdf>

[Sk20] A. Skopenkov, Mathematics through problems: from mathematical circles and olympiades to profession. Algebra. AMS, Providence, to appear.

[Sk] A. Skopenkov, Algebraic Topology From Algorithmic Viewpoint, draft of a book, mostly in Russian, <http://www.mccme.ru/circles/oim/algor.pdf>

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Papers in Mat. Prosveschenie are available at <http://www.mccme.ru/free-books/matpros.html>

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[Sk96] A. Skopenkov, *Borsuk's problem*, Quantum **7:1** (1996), 16–21, 63.

[KS97] V. Kurlin and A. Skopenkov, *Basic embeddings of graphs into the plane*, Math. Obrazovanie **3** (1997), 105–113.

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[DSS99] V. N. Dubrovskiy, A. B. Skopenkov and A. V. Spivak, *Mathematics (materials of the 1997 summer school)*, SUNC MGU (1999).

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[RS00] D. Repovš and A. Skopenkov, *Obstruction theory for beginners*, Mat. Prosveschenie **4** (2000).

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- [BRS08] V. Bogachev, A. Raigorodskiy, A. Skopenkov and N. Tolmachev Students’ mathematical olympiades and interdepartment seminar at Moscow State University, *Mat. Prosveschenie*, 12 (2008), 205-222.
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- [ABG12] I. Arzhantsev, V. Bogachev, A. Garber, A. Zaslavsky, V. Protasov and A. Skopenkov, Students’ mathematical olympiades at Moscow State University 2010-2011, *Mat. Prosveschenie*, 16 (2012), 214-227.
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- [IRS15] D. Ilyinskiy, A. Raigorodskiy and A. Skopenkov, Existence proofs in combinatorics using independence, *Mat. Prosveschenie*, 19 (2015), arxiv:1411.3171
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[RS18] A. Remizova and A. Skopenkov, A simple proof of the Lovasz local lemma, *Mat. Prosveschenie*, 22 (2018) 164-169.

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5. *Research projects for Summer Conference of Tournament of Towns (bilingual; after 2001)*

[GSS] Projections of skew lines, presented by A. Gaifullin, A. Shapovalov, A. Skopenkov and M. Skopenkov, <http://www.turgor.ru/lktg/2001/index.php>

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[ABR] How do curved spheres intersect in 3-space, or two-dimensional meandra, presented by S. Avvakumov, A. Berdnikov, A. Rukhovich and A. Skopenkov, <http://www.turgor.ru/lktg/2012/3/index.htm>

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[BCM] 13th Hilbert Problem on superpositions of functions, presented by A. Belov, A. Chilikov, I. Mitrofanov, S. Shaposhnikov and A. Skopenkov, <http://www.turgor.ru/lktg/2016/5/index.htm>

[ERS] Invariants of graph drawings in the plane, presented by A. Enne, A. Ryabichev, A. Skopenkov and T. Zaitsev, <http://www.turgor.ru/lktg/2017/6/index.htm>

[ECG] Toward algorithms of solving algebraic equations, presented by A. Enne, A. Chilikov, A. Glebov, A. Skopenkov, B. Vukorepa, <https://www.turgor.ru/lktg/2018/5/index.html>

[EEF] A user's guide to knot and link theory, presented by D. Eliseev, A. Enne, M. Fedorov, A. Glebov, N. Khoroshavkina, E. Morozov, A. Skopenkov, R. Živaljević. <https://www.turgor.ru/lktg/2019>