

5. A list of publications by A. B. Skopenkov

1. Main papers.

- [Sk95] A. Skopenkov, *A description of continua basically embeddable in \mathbb{R}^2* , Topol. Appl. **65** (1995), 29–48.
- [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.
- [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.
- [Sk08] A. Skopenkov, *Embedding and knotting of manifolds in Euclidean spaces, in: Surveys in Contemporary Mathematics, Ed. N. Young and Y. Choi*, London Math. Soc. Lect. Notes **347** (2008), 248–342; arxiv:math/0604045.
- [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:math/0812.0263.
- [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.
- [RS98] D. Repovš and A. B. Skopenkov, *A deleted product criterion for approximability of a map by embeddings*, Topol. Appl. **87** (1998), 1–19.
- [SSS98] 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.
- [CS11] D. Crowley and A. Skopenkov, *A classification of smooth embeddings of 4-manifolds in 7-space, II*, Internat. J. Math., to appear; arxiv:math/0808.1795.

2. Other 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.
- [RSS95] D. Repovš, A. B. Skopenkov and E. V. Ščepin, *On uncountable collections of continua and their span*, Colloq. Math. **69:2** (1995), 289–296.
- [RSS95'] D. Repovš, A. B. Skopenkov and E. V. Ščepin, *On embeddability of $X \times I$ into Euclidean space*, Houston J. Math **21** (1995), 199–204.
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- [CRS98] A. Cavicchioli, D. Repovš and A. B. Skopenkov, *Open problems on graphs, arising from geometric topology*, Topol. Appl. **84** (1998), 207–226.
- [RS99'] D. Repovš and A. B. Skopenkov, *Obstructions for Seifert fibrations and classification of Hamiltonian systems (in Russian)*, Uspehi Mat. Nauk **54:3** (1999); English transl., Russ. Math. Surv. **54:3** (1999).
- [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.
- [BRS99] 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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- [RS00] D. Repovš and A. Skopenkov, *Cell-like resolutions of polyhedra by special ones*, Colloq. Math. **86:2** (2000), 231–237.
- [RS01] D. Repovš and A. Skopenkov, *On contractible n -dimensional compacta, non-embeddable into \mathbb{R}^{2n}* , Proc. Amer. Math. Soc. **129** (2001), 627–628.
- [ARS01] P. Akhmetiev, D. Repovš and A. Skopenkov, *Embedding products of low-dimensional manifolds in \mathbb{R}^m* , Topol. Appl. **113** (2001), 7–12; (North-Holland, Elsevier).
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- [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).
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- [MS04] J. Mukai and A. Skopenkov, *A direct summand in a homotopy group of the mod 2 Moore space*, Kyushu J. Math. **58:1** (2004), 203–209.
- [CRS04] M. Cencelj, D. Repovš and A. Skopenkov, *On the Browder–Levine–Novikov embedding theorems*, Trudy MIRAN **247** (2004), 280–290.
- [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. Goncalves and A. Skopenkov, *Embeddings of homology equivalent manifolds with boundary*, Topol. Appl. **153:12** (2006), 2026–2034.
- [CRS07] M. Cencelj, D. Repovš and A. Skopenkov, *Codimension two PL embeddings of spheres with nonstandard regular neighborhoods*, Chinese Annals of Mathematics, Series B **28:5** (2007), 603–608; <http://arxiv.org/abs/math.GT/0608653>.
- [Sk07'] A. Skopenkov, *A characterization of submanifolds by a homogeneity condition*, Topol. Appl. **154** (2007), 1894–1897; <http://arxiv.org/abs/math.GT/0606470>.

Books and pedagogical papers.

- [VSS95] N. Vassiliev, V. Senderov and A. Skopenkov, *Around the Markov equation*, Kvant (1995), N6, 36–38.
- [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 (in Russian)*, Math. Obrazovanie **3** (1997), 105–113.

- [KS98] V. Kurlin and A. Skopenkov, *Basic embeddings of graphs into the plane*, in: 9-th summer conference of Tournament of Towns, MCCME (1998), 34–44, 106–113. (in Russian)
- [Sk99] A. Skopenkov, *n-dimensional cube, polynomials and solution of the Borsuk problem (in Russian)*, Mat. Prosveschenie **3** (1999).
- [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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- [RS02] D. Repovš and A. Skopenkov, *Characteristic classes for beginners (in Russian)*, Mat. Prosveschenie **6** (2002), 60–77.
- [ST04] A. Skopenkov and A. Talambutsa, *Extremal dispositions of regular polyhedra*, Mat. Prosveschenie **8** (2004), 53–65.
- [Sk06] A. Skopenkov, *Olympiads and mathematics (in Russian)*, Mat. Prosveschenie **10** (2006), 57–63; <http://www.mccme.ru/free-books/matprosb.html>.
- [KS06] A. Kaibkhanov and A. Skopenkov, *Examples of transcendent numbers (in Russian)*, Mat. Prosveschenie **10** (2006), 176–184; <http://www.mccme.ru/free-books/matprosb.html>.
- [Sk05] A. Skopenkov, On the Kuratowski graph planarity criterion, Mat. Prosveschenie, **9** (2005), 116–128. <http://arxiv.org/abs/0802.3820>
- [OS07] A. Oshemkov and A. Skopenkov, Olympiads in geometry and topology (in Russian), Mat. Prosveschenie, **11** (2007), 131–140. <http://www.mccme.ru/free-books/matpros.html>
- [ST07] A. Skopenkov and A. Telishev, Once again on the Kuratowski graph planarity criterion, Mat. Prosveschenie, **11** (2007), 159–160. <http://arxiv.org/abs/0802.3820>
- [Sk08] A. Skopenkov, Algebraic topology from elementary viewpoint, in Russian, MCCME, Moscow, to appear. arXiv:0808.1395
- [Sk08] A. Skopenkov, Some reflections on research problems for high-school students, Mat. Prosveschenie, **12** (2008), 23–32.
- [KS08] P. Kozlov and A. Skopenkov, A la recherche de l’algèbre perdue: du cote de chez Gauss, Mat. Prosveschenie **12** (2008), 127–144. <http://arxiv.org/abs/0804.4357>
- [B08] I. Arzhantsev, V. Bogachev, A. Zaslavsky, V. Protasov, A. Raygorodsky, A. Skopenkov, Students’ mathematical olympiades and interdepartment seminar at Moscow State University, Mat. Prosveschenie, **12** (2008), 205–222.
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- [Sk09] A. Skopenkov, Basic Differential Geometry As a Sequence of Interesting Problems, in Russian, MCCME, Moscow, 2009. <http://arxiv.org/abs/0801.1568>
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- [A10] I. Arzhantsev, V. Bogachev, A. Zaslavsky, V. Protasov, A. Raygorodsky, A. Skopenkov, Students’ mathematical olympiades at Moscow State University, Mat. Prosveschenie, **14** (2010), 225–234.
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