

**Ovchinnikov I.G.**

**Major publications:**

**Analysis of accidents of transport structures. Progressive collapse of bridges. Modeling of progressive collapse of bridges of different schemes. Prevention of progressive collapse of bridge structures. Ensuring survivability of transport structures**

1. Efanov A.V., Ovsyannikov S.V., Ovchinnikov I.G. Razrushenie pokrytiya mostovogo polotna i deformatsionnyh shvov: prichiny, problemy i puti resheniya//Dorogi i mosty. 2007, №2, s. 38–42. (In Russian)
2. Ovchinnikov I.G., Ovchinnikov I.I., Ataeva E.V. Prichiny avarij i povrezhdenij konstruksij transportnyh sooruzhenij// Aktual'nye voprosy stroitel'stva : materialy Mezhdunar. nauch.-tekhn. konf. : v 2 ch. CH. 2 / redkol.: V. T. Erofeev (otv. red.) [i dr.]. □ Saransk : Izd-vo Mordov. un-ta, 2008. s. 444-452. (In Russian)
3. Ovchinnikov I.G., Ovchinnikov I.I. Analiz prichin avarij i povrezhdenij transportnyh sooruzhenij// Transportnoe stroitel'stvo. M. 2010, №7. s. 2-5. (In Russian)
4. Kokodeev A.V., Ovchinnikov I.G. Obespechenie bezavarijnoj ekspluatatsii mostov i drugih transportnyh sooruzhenij putem obsledovaniya i monitoringa ih podvodnyh chastej: sostoyanie problemy v Rossii// Transport. Transportnye Sooruzheniya. Ekologiya. Vestnik PNIPU. 2015.№1, s.69-87. (In Russian)
5. Kokodeev A.V., Ovchinnikov I.G. Ob Upravlenii Kachestvom V Organizatsiyah Sfery Transportnogo Stroitel'stva Kak Mery Snizheniya Avarijnosti Transportnyh Sooruzhenij// Resursoenergoeffektivnye Tekhnologii V Stroitel'nom Komplekse Regiona. Sbornik Nauchnyh Trudov Po Materialam V Mezhdunarodnoj Nauchno-Prakticheskoy Konferentsii. Saratov. 2017. S.355-359. (In Russian)
6. YUshkov V.S., Ovchinnikov I.G. Matematicheskaya model' dvizheniya transportnyh sredstv po vibropolose, prednaznachennoj dlya snizheniya avarijnosti na avtomobil'nyh dorogah Rossii // Transportnye sooruzheniya, 2017 №4, <https://t-s.today/PDF/01TS417.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl.s. 1-12. (In Russian)
7. Majstrenko I.YU., Ovchinnikov I.I., Ovchinnikov I.G., Kokodeev A.V. Avarii i razrusheniya mostovyh sooruzhenij, analiz iz prichin. CHast' 1 // Internet-zhurnal «Transportnye sooruzheniya», Tom 4, №4 (2017) <https://t-s.today/PDF/13TS417.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/13TS417 (In Russian)
8. Ovchinnikov I.G., Ovchinnikov I.I., Majstrenko I.YU., Kokodeev A.V. Avarii i razrusheniya mostovyh sooruzhenij, analiz iz prichin. CHast' 2 // Internet-zhurnal «Transportnye sooruzheniya», Tom 4, №4 (2017) <https://t-s.today/PDF/14TS417.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/14TS417 (In Russian)
9. Majstrenko I.YU., Ovchinnikov I.I., Ovchinnikov I.G., Uspanov A.M. Avarii i razrusheniya mostovyh sooruzhenij, analiz ih prichin. CHast' 3 // Internet-zhurnal «Transportnye sooruzheniya», 2018 №1, s.1-41. <https://t-s.today/PDF/08SATS118.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/08SATS118. (In Russian)
10. Ovchinnikov I.I., Majstrenko I.YU., Ovchinnikov I.G., Uspanov A.M. Avarii i razrusheniya mostovyh sooruzhenij, analiz ih prichin. CHast' 4 // Transportnye sooruzheniya, 2018 №1, s.1-25. <https://t-s.today/PDF/05SATS118.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. (In Russian)
11. Ovchinnikov I.I., Garibov R.B., Ovchinnikov I.G. Sravnitel'naya otsenka bezopasnosti opor osvescheniya, ustanovlennyh okolo avtomobil'noj dorogi pri dejstvii naezzhayuschego na nih avtomobilya // Transportnye sooruzheniya, 2018 №4,

- s.today/PDF/16SATS418.pdf (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/16SATS418 (In Russian)
12. Ovchinnikov I.I., Timofeev V.V., Ovchinnikov I.G. Problema progressiruyushego razrusheniya transportnyh sooruzhenij// Rol' opornogo vuza v razvitii transportno-energeticheskogo kompleksa Saratovskoj oblasti (TRANSENERGOKOM-2018). Sbornik nauchnyh trudov Vserossijskoj nauchno-prakticheskoj konferentsii. Saratov, 16–17 maya 2018 g. Tom 1. 428 s.s. 366–371. (In Russian)
  13. 1.13. Timofeev V.V., Ovchinnikov I.G. O progressiruyuschem razrushenii mostovyh sooruzhenij// Molodezh' i nauchno-tekhnikeskij progress v dorozhnoj otrasli yuga Rossii = Youth and scientific-and-technical progress in roadfield of south of Russia : materialy XII Mezhdunarodnoj nauch.-tekhnich. konf. studentov, aspirantov i molodyh uchenyh, 23—25 maya 2018 g., Volgograd / M-vo obrazovaniya i nauki Ros. Federatsii, Volgogr. gos. tekhn. un-t. — Volgograd : VolgGTU, 2018. 323 s. s. 73–79. (In Russian)
  14. Valiev SH.N., Ovchinnikov I.G., Ovchinnikov I.I., Smolenkin V.S., Blinkov M.A. Analiz nadzemnogo peshekhodnogo perekhoda s tsel'yu ustanovleniya prichin razrusheniya ostekleniya proleznogo stroeniya // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №6 (2015) <http://naukovedenie.ru/PDF/12KO615.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/12KO615 . (In Russian)
  15. Ovchinnikov I.I., Ovchinnikov I.G., Filippova V.O. Tantsuyuschij most v Volgograde: prichiny, analogii, meropriyatiya. CHast' 1. Prichiny // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №6 (2015) <http://naukovedenie.ru/PDF/07KO615.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/07KO615 (In Russian)
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  17. Ovchinnikov I. I., Ovchinnikov I.G., Filippova V.O. Naskol'ko unikal'ny kolebaniya Volgogradskogo mosta? // POVYSHENIE NADEZHNOСТИ I BEZOPASНОСТИ TRANSPORTNYH SOORUZHENIJ I KOMMUNIKATSIJ: sb. tr. I Mezhdunar. nauch.-prakt. konf.: v 2 t. / pod red. N.E. Kokodeevoj, E.YU. SHmaginoj, A.V. Pankratovoj. – Saratov: Izdatel'skij dom «Rajt-Ekspo», 2015. – T.1. – 328 s. s. 269-277 (In Russian)
  18. Majstrenko I.YU., Ovchinnikov I.I., Ovchinnikov I.G., Kokodeev A.V. Avarii i razrusheniya mostovyh sooruzhenij, analiz iz prichin. CHast' 1 // Internet-zhurnal «Transportnye sooruzheniya», Tom 4, №4 (2017) <https://t-s.today/PDF/13TS417.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/13TS417 (In Russian)
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22. Karahanyan V.B., Ovchinnikov I.I., Baev M.A., Ovchinnikov I.G. Osobennosti progressiruyushego razrusheniya primenitel'no k mostovym sooruzheniyam // Internet-zhurnal «Transportnye sooruzheniya», 2020 №2, <https://t-s.today/PDF/12SATS220.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/12SATS220 (In Russian)
23. Avarii transportnyh sooruzhenij i ih preduprezhdenie: uchebnoe posobie dlya magistrantov napravleniya 08.04.01 «Stroitel'stvo». Prikladnaya programma «Iskusstvennye sooruzheniya na transporte, sposoby vozvedeniya i ekspluatatsii» / I. I. Ovchinnikov, SH. N. Valiev, I. G. Ovchinnikov, I. S. SHatilov. – CHEboksary: ID «Sreda», 2020. – 216 s. (In Russian)
24. Gerasimov O.N., Ovchinnikov I.G. Strategii proektirovaniya balochnyh mostov protiv progressiruyushego razrusheniya//Tendentsii razvitiya stroitel'stva ob"ektov grazhdanskogo i spetsial'nogo naznacheniya: Sbornik materialov I Vserossijskoj mezhvuzovskoj nauchno prakticheskoj konferentsii (15 aprelya 2021 g.). – Tyumen': TVVIKU im. A.I. Proshlyakova, 2021. – 162 s. s. 129–133. (In Russian)
25. Gerasimov O. N., Ovchinnikov I. G. Tendentsiya proektirovaniya arochnyh mostov protiv progressiruyushego razrusheniya//Energoberezhenie i innovatsionnye tekhnologii v toplivno-energeticheskom komplekse. Materialy Natsional'noj s mezhdunarodnym uchastiem nauchno-prakticheskoj konferentsii studentov, aspirantov, uchyonyh i spetsialistov. TIU. 27-29 okt. 2021. S.56-59. (In Russian)
26. Bystrov N.S., Ovchinnikov I.G. Progressiruyushee razrushenie mostov//NAUCHNYE DOSTIZHENIYA VYSSHEJ SHKOLY: sbornik statej II Mezhdunarodnogo nauchno-issledovatel'skogo konkursa (7 fevralya 2022 g.). – Petrozavodsk: MTSNP «Novaya nauka», 2022. – 312 s. S. 9-14. (In Russian)

**The use of pipe concrete in bridge construction. Small and medium bridges with the use of pipe concrete with a shell of metal or polymer composite materials. Development of design, calculation methods, manufacturing and installation technology. Creation of test benches, conducting experiments**

- 2.1. Ovchinnikov I.I., Ovchinnikov I.G., CHesnokov G.V., Mihaldykin E.S. O probleme rascheta trubobetonyh konstruksij s obolochkoj iz raznyh materialov. CHast' 1. Opyt primeneniya trubobetona s metallicheskoj obolochkoj // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №4 (2015) <http://naukovedenie.ru/PDF/95TVN415.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/95TVN415 (In Russian)
- 2.2. Ovchinnikov I.I., Ovchinnikov I.G., CHesnokov G.V., Mihaldykin E.S. O probleme rascheta trubobetonyh konstruksij s obolochkoj iz raznyh materialov. CHast' 2. Raschet trubobetonyh konstruksij s metallicheskoj obolochkoj // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №4 (2015) <http://naukovedenie.ru/PDF/112TVN415.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/112TVN415. (In Russian)
- 2.3. Ovchinnikov I.I., Ovchinnikov I.G., CHesnokov G.V., Mihaldykin E.S. O probleme rascheta trubobetonyh konstruksij s obolochkoj iz raznyh materialov. CHast' 3. Opyt primeneniya polimernyh kompozitnyh materialov v mostostroenii // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №5 (2015) <http://naukovedenie.ru/PDF/27TVN515.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/27TVN515 (In Russian)
- 2.4. Ovchinnikov I.I., Ovchinnikov I.G., CHesnokov G.V., Mihaldykin E.S. O probleme rascheta trubobetonyh konstruksij s obolochkoj iz raznyh materialov. CHast' 4. Opyt primeneniya trubobetonyh svaj s obolochkoj iz polimernyh kompozitsionnyh materialov // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №6 (2015) <http://naukovedenie.ru/PDF/148TVN615.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI:10.15862/148TVN615 (In Russian)
- 2.5. Ovchinnikov I.I., Ovchinnikov I.G., CHesnokov G.V., Mihaldykin E.S. O probleme rascheta trubobetonyh konstruksij s obolochkoj iz raznyh materialov. CHast' 5. Opyt primeneniya

trubobetonnyh arok i gibridnyh konstruktsij s obolochkoj iz polimernyh kompozitsionnyh materialov // Internet-zhurnal «NAUKOVEDENIE» Tom 8, №1 (2016) <http://naukovedenie.ru/PDF/02TVN116.pdf> (dostup svobodnyj). Zagl. S ekrana. YAz. rus., angl. DOI: 10.15862/02TVN116. (In Russian)

2.6. Moiseev O.YU., Paryshev D.N., Ovchinnikov I.G., Harin V.V., Ovchinnikov I.I. Trubobetonnye balki s chastichno predvaritel'no napryazhennym betonnym yadrom dlya proletnyh stroenij malyh mostov// Modernizatsiya i nauchnye issledovaniya v transportnom stroitel'stve. Materialy mezhdunarodnoj nauchno-prakticheskoy konferentsii. Perm'. 14-15 aprelya 2016 g. Izd-vo PNIPU. s. 283-288. (In Russian)

2.7. Ovchinnikov I.G., Ovchinnikov I.I., Moiseev, O.YU., Paryshev D.N., Harin V.V. Povyshenie effektivnosti trubobetonnyh balok dlya proletnyh stroenij mostov primeneniem predvaritel'nogo napryazheniya// Transportnye sistemy Sibiri. Razvitie transportnoj sistemy kak katalizator rosta ekonomiki gosudarstva. Mezhdunarodnaya nauchno-prakticheskaya konferentsiya (Krasnoyarsk, 7–8 aprelya 2016 g.) : sb. nauch. tr. : v 2 ch. CH. 1 / pod obsch. red. V.V. Minina. – Krasnoyarsk : Sib. feder. un-t, 2016. – 542 s. s.147 – 150. (In Russian)

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2.9. Mihaldykin E.S., Ovchinnikov I.G., Valiev SH.N., Matveyushkin S.A., Evdokimov A.A. Ispytaniya balochnyh i arochnykh trubobetonnyh konstruktsij s obolochkoj iz polimernyh kompozitsionnyh materialov//sbornik trudov Mezhdunarodnoj nauchnoj konferentsii, posvyaschennoj 85-letiyu kafedry zhelezobetonnyh i kamennyh konstruktsij i 100-letiyu so dnya rozhdeniya N.N. Popova, «SOVREMENNYE PROBLEMY RASCHETA ZHELEZOBETONNYH KONSTRUKTSIJ, ZDANIJ I SOORUZHENIJ NA AVARIJNYE VOZDEJSTVIYA» Moskva, 19-20 aprelya 2016 g. s. 271–277. (In Russian)

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2.12. Paryshev D.N., Moiseev O.YU., Ovchinnikov I.G., Harin V.V., Ovchinnikov I.I. Pasportizatsiya kak osnovnaya protsedura SMK innovatsionnyh nesuschih elementov trubobetonnyh balochnyh mostov // Transport: problemy i perspektivy: Sbornik materialov Mezhdunarodnoj nauchno-prakticheskoy konferentsii / pod obsch. red. V.V. Harina. – Kurgan: KIZHT. UrGUPS, 2017. – 188 s. s.89-93. (In Russian)

2.13. Moiseev O.Yu., Paryshev D.N., Ovchinnikov I.G., Kopyrin V.I., Kharin V.V., Ovchinnikov I.I. Pipe-concrete prestressed beam//Patent for invention No. 2632798. Application no. 2016114614. Priority from 04/14/2016. Date of registration in the State Register of Inventions of the Russian Federation 09.10.2017. Patent holders: Moiseev O.Yu., Paryshev D.N., Ovchinnikov I.G., Kopyrin V.I., Kharin V.V., Ovchinnikov I.I. (In Russian)

2.14. Patent for invention No. 2669814 Prestressed pipe concrete beam / D.N. Paryshev, V.I. Kopyrin, O.Y. Moiseev, I.G. Ovchinnikov, V.V. Kharin, I.I. Ovchinnikov, A.V. Kharin, application 05.12.2017

2.15. The decision to grant a patent under the application 2017145446 RU, IPC 6 E 04 From 3/30. Trubobetonnaya beam / D.N. Paryshev, V.I. Kopyrin, O.Y. Moiseev, I.G. Ovchinnikov, V.V. Kharin, I.I. Ovchinnikov, A.V. Kharin, I.P. Popov, V.A. Voronkin (Russia); application 22.12.2017; publ. 23.04.2018, Bulletin No. 12.

- 2.16. Paryshev D.N., Il'tyakov A.V., Ovchinnikov I.G., Ovchinnikov I.I., Moiseev O.YU., Kopyrin V.I., Harin V.V., Popov I.P., Voronkin V.A. Primenenie trubobetona v transportnom stroitel'stve // Dorozhnaya Derzhava. 2019.№90, s.74-80 (In Russian)
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- 2.18. Paryshev D.N., Il'tyakov A.V., Ovchinnikov I.G., Ovchinnikov I.I., Moiseev O.YU., Kopyrin V.I., Harin V.V., Popov I.P., Voronkin V.A. Malye mosty na trubobetonyh elementah – tekhnologicheskij proryv v natsproekte «Bezopasnye i kachestvennye avtomobil'nye dorogi» (prodolzhenie temy. Sm №№90 i 91) // Dorozhnaya Derzhava. 2019.№92, s. (In Russian)
- 2.19. Paryshev D.N., Il'tyakov A.V., Kopyrin V.I., Moiseev O.Yu., Mosin A.A., Ovchinnikov I.I., Ovchinnikov I.G., Kharin V.V., Popov I.P., Kharin A.V., Voronkin V.A. Patent for invention No. 2702444 Span pipe-concrete bridge structure. Patent holder Kharin V.V. Application No. 2019103410. Priority 06 February 2019 The date of state registration in the Register of Inventions of the Russian Federation is October 08, 2019. The exclusive right to the invention expires on February 06, 2039. (In Russian)
- 2.20. Ovchinnikov I.G., Paryshev D.N., Il'tyakov A.V., Moiseev O.YU., Harin V.V., Popov I.P., Harin D.A. Anizotropiya fibrobetonnogo yadra trubobetonoj balki//MODERNIZATSIYA I NAUCHNYE ISSLEDOVANIYA V TRANSPORTNOM KOMPLEKSE. Materialy mezhdunarodnoj nauchno-prakticheskoy konferentsii. g. Perm', 7–8 noyabrya 2019 g. Izd-vo PNIPU. 336 s. s. 300–305. (In Russian)
- 2.21. Ovchinnikov I.G., Paryshev D.N., Il'tyakov A.V., Moiseev O.YU., Harin V.V., Popov I.P., Harin D.A. Matematicheskaya model' magnitnoj orientatsii fibry v trubobetonoj balke// MODERNIZATSIYA I NAUCHNYE ISSLEDOVANIYA V TRANSPORTNOM KOMPLEKSE. Materialy mezhdunarodnoj nauchno-prakticheskoy konferentsii. g. Perm', 7–8 noyabrya 2019 g. Izd-vo PNIPU. 336 s. s. 306-311. (In Russian)
- 2.22. Ovchinnikov I.G., D.N. Paryshev, A.V. Il'tyakov, O.YU. Moiseev, V.V. Harin, I.P. Popov, D.A. Harin. Povyshenie nagruzochnoj sposobnosti trubobetonoj balki//TRANSPORT. TRANSPORTNYE SOORUZHENIYA. EKOLOGIYA, PNIPU, 2019. № 4. S.58-66. (In Russian)
- 2.23. Ovchinnikov I.G., Ovchinnikov I.I., Chesnokov G.V., Shadrina O.V. Primenenie zapolnennyh betonom trubchatyh konstruksij iz fibroarmirovannyh plastikov v transportnom stroitel'stve: CHast' 1. Issledovanie primenimosti fibroplastikov dlya sozdaniya arochnoj mostovoj konstruksii// Internet-zhurnal "Naukovedenie" № 4(23), 2014. iyul'-avgust. s. 1- 25. Identifikatsionnyj nomer stat'i v zhurnale 102TVN414. (In Russian)
- 2.24. Ovchinnikov I.G., Ovchinnikov I.I., Chesnokov G.V., Feoktistov S.A. Primenenie zapolnennyh betonom trubchatyh konstruksij iz fibroarmirovannyh plastikov v transportnom stroitel'stve: CHast' 2. Otechestvennye issledovaniya zapolnennyh betonom fibroplastikovyh arok i tekhnologiya sooruzheniya mostov s primeneniem fibroplastikovyh arok// Internet-zhurnal "Naukovedenie" № 4(23), 2014. iyul'-avgust. s. 1- 34. Identifikatsionnyj nomer stat'i v zhurnale 103TVN414. (In Russian)
- 2.25. Ovchinnikov I.G., Ovchinnikov I.I., Chesnokov G.V., Primenenie zapolnennyh betonom trubchatyh konstruksij iz fibroarmirovannyh plastikov v transportnom stroitel'stve: CHast' 3. Monitoring mostovogo sooruzheniya, izgotovlennogo s primeneniem zapolnennyh betonom fibroplastikovyh arochnyh trub // Internet-zhurnal "Naukovedenie" № 4(23), 2014. iyul'-avgust. s. 1- 24. Identifikatsionnyj nomer stat'i v zhurnale 104TVN414. (In Russian)
- 2.26. Patent for invention No. 2669814 Prestressed pipe concrete beam / D.N. Paryshev, V.I. Kopyrin, O.Y. Moiseev, I.G. Ovchinnikov, V.V. Kharin, I.I. Ovchinnikov, A.V. Kharin, application 05.12.2017
- 2.27. Paryshev D.N., Il'tyakov A.V., Ovchinnikov I.G., Ovchinnikov I.I., Moiseev O.YU., Kopyrin V.I., Harin V.V., Popov I.P., Voronkin V.A. Malye mosty na trubobetonyh elementah

- tekhnologicheskij proryv v natsproekte «Bezopasnye i kachestvennye avtomobil'nye dorogi» (prodolzhenie temy) //Dorozhnaya Derzhava. 2019.№91, s.34–39. (In Russian)
- 2.28. Ovchinnikov I.G., D.N. Paryshev, A.V. Il'tyakov, O.YU. Moiseev, V.V. Harin, I.P. Popov, D.A. Harin. Povyshenie nagruzochnoj sposobnosti trubobetonnoj balki//TRANSPORT. TRANSPORTNYE SOORUZHENIYA. EKOLOGIYA, PNIPU, 2019. № 4. S.58-66. (In Russian)
- 2.29. Paryshev D.N., Iltyakov A.V., Kopyrin V.I., Moiseev O.Yu., Agafonov Yu.A., Ovchinnikov I.G., Sherenkov V.M., Ovchinnikov I.I., Kharin V.V., Kharin D.A., Voronkin V.A. Popov I.P., Bitrubobetonnyaya beam. Patent holders Kharin V.V., Paryshev D.N. Application No. 2019130450 25.09.19. Priority of 2509.2019 Date of state. Registration in the Register of Inventions of the Russian Federation 22.12.2020 (In Russian)

Major publications on:

3. Application of the bionic approach to the design of transport facilities. Development of design techniques, behavior modeling. Conducting experiments.

- 3.1. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Peshekhodnye mosty sovremennosti: tendentsii proektirovaniya. CHast' 1. Ispol'zovanie bionicheskogo podhoda // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №2 (2015) <http://naukovedenie.ru/PDF/81TVN215.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/81TVN215 (In Russian)
- 3.2. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Peshekhodnye mosty sovremennosti: tendentsii proektirovaniya. CHast' 2. Mnogofunktsional'nye mosty // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №2 (2015) <http://naukovedenie.ru/PDF/93TVN215.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/93TVN215 (In Russian)
- 3.3. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Peshekhodnye mosty sovremennosti: tendentsii proektirovaniya. CHast' 3. Interesnye resheniya peshekhodnyh i velosipednyh mostov // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №2 (2015) <http://naukovedenie.ru/PDF/03TVN315.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/03TVN315 (In Russian)
- 3.4. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Perspektivnye napravleniya proektirovaniya na primere sovremennyh peshekhodnyh mostov//Innovatsii i issledovaniya v transportnom komplekse. Materialy III Mezhdunarodnoj nauchno-prakticheskoy konferentsii. CHast' I (v dvuh chastyakh)- Kurgan, 2015.- 384 s. s.115-122. (In Russian)
- 3.5. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Sovremennye tendentsii v proektirovanii peshekhodnyh mostov//Dorogi i mosty. RosdorNII. 2015. Vyp.33. s. 177-194. (In Russian)
- 3.6. Ovchinnikov I.G., Karahanyan A.B., Ovchinnikov I.I., Moiseev O.YU. Nekotorye tendentsii razvitiya peshekhodnogo mostostroeniya// Zaural'skij nauchnyj vestnik. 2015. №1 (7). s. 69-76. (In Russian)
- 3.7. Ovchinnikov I.G., Ovchinnikov I.I., Karahanyan A.B. Perspektivnye napravleniya proektirovaniya na primere sovremennyh peshekhodnyh mostov//Innovatsionnyj transport. №3. Sentyabr' 2015. S.73-79. (In Russian)
- 3.8. Ovchinnikov I.I., Karahanyan A.B., Ovchinnikov I.G. Primenenie bionicheskogo podhoda pri sozdanii peshekhodnyh mostov iz vysokoprochnnyh betonov // SBORNIK Tezisev dokladov mezhdunarodnoj nauchno tekhnicheskoy konferentsii «Vysokoprochnye tsementnye betony: tekhnologii, konstruksii, ekonomika (VPB-2016)» . - Kazan': KGASU, 2016. - 92 s. s.60. (In Russian)

- 3.9. Karahanyan A.B., Ovchinnikov I.I., Ovchinnikov I.G. Printsipy formoobrazovaniya linejno protyazhennykh mostovykh sooruzhenij // Resursoenergoeffektivnye tekhnologii v stroitel'nom komplekse regiona. Sbornik nauchnykh trudov po materialam V Mezhdunarodnoj nauchno-prakticheskoy konferentsii. Saratov. 2017. s.402–406. (In Russian)
- 3.10. Karahanyan A.B., Ovchinnikov I.G., Ovchinnikov I.I., Timofeev V.V. Razvitie osnovnykh printsiptov proektirovaniya transportnykh sooruzhenij. Ispol'zovanie biomimeticheskogo podhoda // Transportnye sooruzheniya, 2017 №3, <https://t-s.today/PDF/02TS317.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. (In Russian)
- 3.11. Sovremennye peshekhodnye i velosipednye mosty (osnovnye kontseptsii proektirovaniya i primery): monogr. / I.I. Ovchinnikov, A.B. Karahanyan, I.G. Ovchinnikov, YU.P. Skachkov. – Penza: PGUAS, 2018. – 140 s. (In Russian)
- 3.12. Ovchinnikov I.I., Karahanyan A.B., Ovchinnikov I.G. Bionicheskij podhod k proektirovaniyu mostovykh sooruzhenij. CHast' 1: Osobennosti bionicheskogo podhoda primenitel'no k stroitel'nym konstruktsiyam // Internet-zhurnal «Transportnye sooruzheniya», 2019 №2, <https://t-s.today/PDF/17SATS219.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/17SATS219 (In Russian)
- 3.13. Karahanyan A.B., Ovchinnikov I.I., Ovchinnikov I.G. Bionicheskij podhod k proektirovaniyu mostovykh sooruzhenij. CHast' 2: Konechno-elementnoe modelirovanie arochnogo peshekhodnogo mosta, sproektirovannogo s ispol'zovaniem bionicheskogo podhoda // Transportnye sooruzheniya, 2019 №3, s. 1 – 25. <https://t-s.today/PDF/34SATS319.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/34SATS319 (In Russian)
- 3.14. Ovchinnikov I.I., Dyadchenko G.S., Ovchinnikov I.G. Sovremennye peshekhodnye mosty: konstruktsiya, stroitel'stvo, arhitektura: uchebnoe posobie. Moskva: Vologda: Infra – Inzheneriya. 2020. 312 s.: il., tabl. ISBN 978-5-9729-0431-0 (In Russian)
- 3.15. Ovchinnikov I.G., Karahanyan V.B. Simbioz bioniki i teoriya resheniya izobretatel'skikh zadach v mostostroenii// NAUCHNYE DOSTIZHENIYA VYSSHEJ SHKOLY: sbornik statej II Mezhdunarodnogo nauchno-issledovatel'skogo konkursa (7 fevralya 2022 g.). – Petrozavodsk: MTSNP «Novaya nauka», 2022.–312 s. S. 307-312. (In Russian)

Major publications on:

4. The use of tensegrity systems in the creation of bridge structures. First pedestrian bridges, then under the car load. Development of methods of design, calculation, behavior modeling. Conducting experiments.

- 4.1. Ovchinnikov I.G., Kokodeev A.V. Issledovanie vozmozhnostej primeneniya samonapryazhennykh konstruktsij (tensegriti) pri sozdanii transportnykh sooruzhenij//Innovatsii i issledovaniya v transportnom komplekse. Materialy III Mezhdunarodnoj nauchno-prakticheskoy konferentsii. CHast' I (v dvuh chastyah)- Kurgan, 2015.- 384 s. s.134-141. (In Russian)
- 4.2. Ovchinnikov I.G., Kokodeev A.V. Samonapryazhennyye konstruktsii «tensegriti» v mostostroenii// Sbornik materialov XVI mezhdunarodnoj nauchno-tekhnicheskoy konferentsii «Aktual'nye problemy stroitel'stva, stroitel'noj industrii i promyshlennosti (Tula, 30 iyunya – 3 iyulya 2015 g), s.80-81. (In Russian)
- 4.3. Kokodeev A.V., Ovchinnikov I.G. Analiz konstruktivnogo resheniya krupnejshego mosta - «tensegriti» Kurilpa Bridzh // Internet-zhurnal «NAUKOVEDENIE» Tom 7, №4 (2015) <http://naukovedenie.ru/PDF/40TVN415.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/40TVN415 (In Russian)
- 4.3. Bureev A. K., Ovchinnikov I. I., Ovchinnikov I. G. Primenenie struktur tensegriti v arhitekture i mostostroenii // Novye idei novogo veka – 2016 : materialy Shestnadtsatoj Mezhdunarodnoj nauchnoj konferentsii = The new Ideas of New Century – 2016 : The Fifteenth International Scientific Conference Proceedings : v 3 t. / Tihookean. gos. un-t. – Habarovsk : Izd-

- vo Tihookean. gos. un-ta, 2015. – 3 t. ISBN 978-5-7389-1894-0. T. 3. – 404 s. s.200-206. (In Russian)
- 4.5. Ovchinnikov I.G., Kokodeev A.V. Ob idee samonapryazhennyh konstruksij «tensegriti»: istoriya, osnovnye aspekty i perspektivy ispol'zovaniya pri stroitel'stve mostovyh sooruzhenij // Internet-zhurnal «Transportnye sooruzheniya», Tom 2, №3 (2015) <http://t-s.today/PDF/02TS315.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. (In Russian)
- 4.6. Bureev A.K., Ovchinnikov I.G. Metody poiska form tensegriti-struktur // Sbornik materialov XVIII Mezhdunarodnoj nauchno-tehnicheskoy konferentsii «Aktual'nye problemy stroitel'stva, stroitel'noj industrii i promyshlennosti», Tula, (29-30 iyunya 2017 g.) s. 36-41. (In Russian)
- 4.7. Ovchinnikov I.I., Ovchinnikov I.G., Bureev A.K. Primenenie printsipa tensegriti dlya sozdaniya mostovyh konstruksij. CHast' 1. Obschie svedeniya o sisteme «tensegriti» // Transportnye sooruzheniya, Tom 4, №2 (2017) <http://t-s.today/PDF/04TS217.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/04TS217. (In Russian)
- 4.8. Ovchinnikov I.I., Ovchinnikov I.G., Bureev A.K. Primenenie printsipa tensegriti dlya sozdaniya mostovyh konstruksij. CHast' 2. Primery mostov-tensegriti // Transportnye sooruzheniya, Tom 4, №3 (2017) <http://t-s.today/PDF/01TS317.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/01TS317. (In Russian)
- 4.9. Bureev A.K., Ovchinnikov I.G. Mostovye sooruzheniya po tipu tensegriti // Molodezh' i nauchno-tehnicheskij progress v dorozhnoj otrasli yuga Rossii = Youth and scientific-and-technical progress in roadfield of south of Russia : materialy XII Mezhdunarodnoj nauch.-tehnich. konf. studentov, aspirantov i molodyh uchenykh, 23-25 maya 2018 g., Volgograd / M-vo obrazovaniya i nauki Ros. Federatsii, Volgogr. gos. tekhn. un-t. – Volgograd : VolgGTU, 2018. 323 s. s.20–26. (In Russian)
- 4.10. Sovremennye peshekhodnye i velosipednye mosty (osnovnye kontseptsii proektirovaniya i primery): monogr. / I.I. Ovchinnikov, A.B. Karahanyan, I.G. Ovchinnikov, YU.P. Skachkov. – Penza: PGUAS, 2018. – 140 s. (In Russian)
- 4.11. Bureev A.K., Ovchinnikov I.G. Printsip samonapryazhennyh konstruksij v stroitel'stve: preimuschestva i nedostatki // Rol' opornogo vuza v razvitii transportno-energeticheskogo kompleksa Saratovskoy oblasti (TRANSENERGOKOM-2018). Sbornik nauchnykh trudov Vserossijskoj nauchno-prakticheskoy konferentsii. Saratov, 16–17 maya 2018 g. Tom 1. 428 s. s.281–285. (In Russian)
- 4.12. Bureev A.K., Ovchinnikov I.I., Ovchinnikov I.G. Unikal'nye osobennosti samonapryazhennyh struktur v mostostroenii // DOROGI. Innovatsii v stroitel'stve №74. Dekabr'/2018. S.40 – 44. (In Russian)
- 4.13. Bureev A.K., Ovchinnikov I.G. Ispol'zovanie samonapryazhennyh struktur v stroitel'stve, osobennosti analiza i konstruirovaniya // Vestnik nauki i obrazovaniya Severo - Zapada Rossii, 2018, T.4, № 4. S.1-9. (In Russian)
- 4.14. Bureev A.K., Ovchinnikov I.G. Metody «poiska form» samonapryazhennyh konstruksij // Internet-zhurnal «Transportnye sooruzheniya», 2019 №4, <https://t-s.today/PDF/25SATS419.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/25SATS419 (In Russian)
- 4.15. Bureev A.K., Ovchinnikov I.G. Peshekhodnye mosty na osnove printsipa tensegrity // Dorozhnaya derzhava. 2020. №94. S.32.-35. (In Russian)
- 4.16. Bureev Artem and Ovchinnikov Igor. The Bridge Design of Tensegrity Structures Using Parametric Analysis // Recent Research in Control Engineering and Decision Making Volume 2, 2020, p.350-366 (SCOPUS)

Major publications on:

5. Application of polymer composite reinforcement in bridge construction as well as protection of reinforcement against corrosion by polymer protective coatings. Development of calculation methods, modeling of behavior. Experimental staging.

- 5.1. Ovchinnikov I.I., Il'chenko E.D., Ovchinnikov I.G. CHto meshaet shirokomu primeneniyu polimernyh kompozitsionnyh materialov v transportnom stroitel'stve // Aktual'nye problemy gorodskogo stroitel'stva. Sbornik trudov Vserossijskoj nauchno-tehnicheskoy konferentsii, Penza: PGUAS, 2017. – 476 s. s.125–140. (In Russian)
- 5.2. Ovchinnikov I. I., Il'chenko E. D., Ovchinnikov I. G. Izgib plastin s armaturoj iz polimernogo kompozitsionnogo materiala // Novye idei novogo veka – 2017 : materialy Semnadsatoy Mezhdunarodnoj nauchnoj konferentsii = The New Ideas of New Century – 2017 : The Sixteenth International Scientific Conference Proceedings : v 3 t. / Tihookean. gos. un-t. – Habarovsk : Izd-vo Tihookean. gos. un-ta, 2017. – 3 t. ISBN 978-5-7389-2187-2 T. 3. – 452 s. ISBN 978-5-7389-2190-2, s. 299 – 304. (In Russian)
- 5.3. Ovchinnikov I. I., Il'chenko E. D., Ovchinnikov I. G. O korrektnosti primeneniya nekotoryh terminov v dorozhnoj otrasli i oblastyah primeneniya ispol'zuemyh formul // Transport: problemy i perspektivy: Sbornik materialov Mezhdunarodnoj nauchno-prakticheskoy konferentsii / pod obsch. red. V.V. Harina. – Kurgan: KIZHT. UrGUPS, 2016. – 180 s. s.172-176. (In Russian)
- 5.4. Ovchinnikov I.I., Ovchinnikov I.G., Il'chenko E.D., Mihaldykin E.S. Modelirovanie povedeniya plastinchatyh konstruksij iz armirovannogo betona s nemetallicheskoj armaturoj // Internet-zhurnal «NAUKOVEDENIE» Tom 9, №2 (2017) <http://naukovedenie.ru/PDF/105TVN217.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. s. 1-22. (In Russian)
- 5.5. Ovchinnikov I.I., Il'chenko E.D., Ovchinnikov I.G. O neobhodimosti korrektnogo ispol'zovaniya raschetnyh formul strogo v oblastyah ih primeneniya pri raschete dorozhnyh konstruksij // Resursoenergoeffektivnye tekhnologii v stroitel'nom komplekse regiona. Sbornik nauchnyh trudov po materialam V Mezhdunarodnoj nauchno-prakticheskoy konferentsii. Saratov. 2017. s. 364-368. (In Russian)
- 5.6. Ovchinnikov I.I., Il'chenko E.D., Uspanov A.M., Ovchinnikov I.G. Tsilindricheskij Izgib Plastiny, Armirovannoj Nemetallicheskoj Armaturoj V Usloviyah Hloridnoj Agressii// Resursoenergoeffektivnye Tekhnologii V Stroitel'nom Komplekse Regiona. Sbornik Nauchnyh Trudov Po Materialam V Mezhdunarodnoj Nauchno-Prakticheskoy Konferentsii. Saratov. 2017. S. 373- 377. (In Russian)
- 5.7. Il'chenko E.D., Ovchinnikov I.I., Ovchinnikov I.G. Polubezmomentnaya teoriya deformirovaniya tsilindricheskikh obolochek, armirovannyh nemetallicheskoj armaturoj// Rol' opornogo vuza v razvitii transportno-energeticheskogo kompleksa Saratovskoj oblasti (TRANSENERGOKOM-2018). Sbornik nauchnyh trudov Vserossijskoj nauchno-prakticheskoy konferentsii. Saratov, 16–17 maya 2018 g. Tom 1. 428 s. s. 306 – 312. (In Russian)
- 5.8. Prokof'ev A.A., Ovchinnikov I.G. Arochnye mostovye sooruzheniya iz blokov, armirovannyh ugleplastikovoj armaturoj// Aktual'nye problemy gorodskogo stroitel'stva. Sbornik trudov Vserossijskoj nauchno-tehnicheskoy konferentsii, Penza: PGUAS, 2017. – 476 s. s. 293 – 300. (In Russian)
- 5.9. Bulkov A.S., Baev M.A., Ovchinnikov I.G. Zashchita ot korrozii armaturnoj stali zhelezobetonyh konstruksij transportnyh sooruzhenij // Internet-zhurnal «Transportnye sooruzheniya», 2020 №1, <https://t-s.today/PDF/15SATS120.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. DOI: 10.15862/15SATS120 (In Russian)

Major publications on:

6. Application of polymer composite materials in transport construction. Development of methods for calculating railings made of polymer composite materials taking into account installation stresses, installation defects, joint work with superstructures during operation.

6.1. Ovchinnikov I.I., Il'chenko E.D., Ovchinnikov I.G. CHto meshaet shirokomu primeneniyu polimernyh kompozitsionnyh materialov v transportnom stroitel'stve// Aktual'nye problemy

- gorodskogo stroitel'stva. Sbornik trudov Vserossijskoj nauchno-tekhnicheskoy konferentsii, Penza: PGUAS, 2017. – 476 s. s.125 – 140. (In Russian)
- 6.2. Ovchinnikov I.I., Ovchinnikov I.G., Il'chenko E.D., Mihaldykin E.S. Sistematizatsiya i analiz normativno tekhnicheskoy dokumentatsii po primeneniyu polimernyh kompozitsionnyh materialov v transportnom stroitel'stve. CHast' 1 // Internet-zhurnal «NAUKOVEDENIE» Tom 9, №1 (2017) <http://naukovedenie.ru/PDF/32TVN117.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. s. 1- 25. (In Russian)
- 6.3. Ovchinnikov I.I., Ovchinnikov I.G., Il'chenko E.D., Mihaldykin E.S. Sistematizatsiya i analiz normativno tekhnicheskoy dokumentatsii po primeneniyu polimernyh kompozitsionnyh materialov v transportnom stroitel'stve. CHast' 2 // Internet-zhurnal «NAUKOVEDENIE» Tom 9, №1 (2017) <http://naukovedenie.ru/PDF/45TVN117.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. s. 1–25. (In Russian)
- 6.4. Ovchinnikov I.I., Il'chenko E.D., Mandrik-Kotov B.B., Ovchinnikov I.G. O normativnyh dokumentah po primeneniyu polimernyh kompozitsionnyh materialov dlya peshekhodnyh ograzhdenij v transportnom stroitel'stve // Resursoenergoeffektivnye tekhnologii v stroitel'nom komplekse regiona. Sbornik nauchnyh trudov po materialam V Mezhdunarodnoj nauchno-prakticheskoy konferentsii. Saratov. 2017. s.368–373. (In Russian)
- 6.5. Ovchinnikov I.I., Ovchinnikov I.G., Mandrik-Kotov B.B., Mihaldykin E.S. Problemy primeniya polimernyh kompozitsionnyh materialov v transportnom stroitel'stve // Internet-zhurnal «NAUKOVEDENIE» Tom 8, №6 (2016) <http://naukovedenie.ru/PDF/89TVN616.pdf> (dostup svobodnyj). Zagl. s ekrana. YAz. rus., angl. (In Russian)
- 6.6. Ovchinnikov I.G., Ovchinnikov I.I., Mandrik-Kotov B.B., Mihaldykin E.S. Problemy primeniya polimernyh kompozitov v dorozhno-mostovom stroitel'stve// DOROZI. Innovatsii v stroitel'stve. №61, maj 2017. s. 80-85. (In Russian)
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