



Personal Information



Roman Esin

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 **Google Scholar:** <https://scholar.google.com/citations?user=XdCvIp4AAAAJ&hl=ru>

Current Position Associate Professor of Applied Mathematics and Computer Safety Department, School of Space and Information Technology

Research Interests Data Analytics in Education, Statistical Data Processing, Adaptive Learning Systems, Individual Educational Trajectory

Education and Academic Degrees

- 2020 — Siberian Federal University, Technology and Engineering Teacher
- 2019 — Siberian Federal University, Ph.D. in Education
- 2018 — Siberian Federal University, Postgraduate (Research teacher) in Mathematical Modelling, Numerical Methods and Software
- 2014 — Siberian Federal University, Specialist (Engineer) degree in Applied Mathematics

Professional Career

- 2020 — School of Space and Information Technology, Department of Applied Mathematics and Computer Security, Associate Professor
- 2019 — School of Space and Information Technology, Department of Applied Mathematics and Computer Security, Senior Lecture
- 2015 — School of Space and Information Technology, Department of Applied Mathematics and Computer Security, Graduate Teaching Assistant

Recent Publications

- 2021 — Iu. V. Vainshtein, R. V. Esin, G Tsibulsky Learning Content Model: from Concept Structuring to Adaptive Learning. *Open Education*, 2021, vol. 25, no. 1, pp. 28-39. DOI: <https://doi.org/10.21686/1818-4243-2021-1-4-28-39>
- 2020 — Iu. V. Vainshtein, R. V. Esin, G Tsibulsky Constructing domain model based on logical and epistemological analysis. *CEUR Workshop Proceedings*, vol. 2770, pp. 140-146.
- 2020 — Iu. Vainshtein, R. Esin, V. Shershneva Individualization of teaching mathematical logic in the electronic environment. *Perspektivy Nauki i Obrazovania*, 2020, vol. 47, no. 5, pp. 147–159. DOI: 10.32744/pse.2020.5.10
- 2020 — Iu. V. Vainshtein, R.V. Esin, The assessment of professional competence in university digital environment. *Informatics and education*, 2020, no. 6, pp. 52-60. DOI: <https://doi.org/10.32517/0234-0453-2020-35-6-52-60>
- 2019 — Iu. V. Vainshtein, V. A. Shershneva, R. V. Esin, M. V. Noskov Individualisation of Education in Terms of E-learning: Experience and Prospects. *Journal of the Siberian Federal University. Series: Humanities*, 2019, vol. 12, no. 9, pp. 1753-1770. DOI: <https://doi.org/10.17516/1997-1370-0481>
- 2019 — V. Shershneva, Iu. Vainshtein, T. Kochetkova, R. Esin Technological approach to development of adaptive e-learning system. *SHS Web of Conferences*, 2019, vol. 66, pp. 01014. DOI: <https://doi.org/10.1051/shsconf/20196601014>
- 2019 — R. V. Esin, T. A. Kustitskaya Improving the efficiency of teaching mathematics in e-learning course using training lectures. *Informatics and education*, 2019, no. 8, pp. 32-39. DOI: <https://doi.org/10.32517/0234-0453-2019-34-8-32-39>
- 2018 — G.M. Tsibulsky, Iu. Vainshtein, R.V. Esin Development of adaptive electronic training courses in the LMS Moodle environment: monograph, Krasnoyarsk, Sib. Feder. un-t, 2018, 168 p.
- 2018 — R.V. Esin Structurally meaningful model of mathematical competence of bachelors of information technology training areas. *Modern high technology*, 2018, no. 11-2, pp. 279-283.

- 2018 — Iu. Vainshtein, R.V. Esin Gamification in the electronic environment as a means of involving students in the educational process. *Open and distance education*, 2017, no. 66, pp. 26-32.
- 2017 — Iu. Vainshtein, R.V. Esin, T.V. Zykova et al. Adaptation of mathematical educational content in electronic learning resources. *Open Education*, 2017, no. 4, pp. 4-12.
- 2017 — N.V. Larionova, A.M. Tokmin, R.V. Esin, P.O. Shalaev About the influence of non-metallic inclusions on the properties of coking billets obtained by electric slag casting. *Metallurgy Engineering*, 2017, no. 3, pp. 39-40.
- 2017 — Iu. V. Vainshtein, R.V. Esin, G.M. Tsibulsky Adaptive model of developing individual educational trajectories for blended learning. *Informatics and education*, 2017, no. 2, pp. 83-86.
- 2017 — Iu. V. Vainshtein, R.V. Esin, G.M. Tsibulsky, Adaptive e-learning resources for the advanced training of teaching staff. *Bulletin of Krasnoyarsk State Pedagogical University*, 2017, no. 2, pp. 52-55.
- 2015 — R.V. Esin, D.D. Mishchenko Problem of use of modeling systems with variable structure for emergency modes. *The Bulletin of KrasGAU*, 2015, no. 107, pp. 118-121.

Conferences

- 2020 — International Scientific Conference on Informatization of Education and e-learning Methods, Krasnoyarsk, Russia
- 2019 — ERPA International Congresses on Education 2019, Sakarya, Turkey
- 2018 — ERPA International Congresses on Education 2018, Istanbul, Turkey
- 2018 — Education Informatisation and e-Learning Methodology, Krasnoyarsk, Russia
- 2018 — Developing the potential of educational Web-technologies, Arzamas, Russia
- 2018 — Prospects for the development of basic sciences, Tomsk, Russia
- 2018 — Herzen Readings: Some urgent problems of modern mathematics and mathematical education, St. Petersburg, Russia
- 2017 — Education Informatisation: Theory and Practice, Omsk, Russia
- 2017 — Teaching mathematics and computer science in higher education, Perm, Russia

Patents

- 2020 — Iu. V. Weinstein, R.V. Esin, A.S. Dymko Software module for assessing the independent work of students in the electronic information and educational environment. Certificate on state registration of computer programs no. 2020618105, declared. 07/07/20. - publ. 07/17/20
- 2019 — Iu. V. Weinstein, R.V. Esin, A.V. Stepanov, N.A. Zhunev Software module for collecting statistical data on activity of students in electronic information-educational environment. Certificate on state registration of computer programs no. 2019618506, declared. 06/19/19. - publ. 07/02/19
- 2018 — Iu. V. Weinstein, R.V. Esin, N.A. Zhunev, A.V. Stepanov Software module for collecting student test results and monitoring their performance in an electronic web-based learning environment. Certificate on state registration of computer programs no. 20186189666, declared. 06/15/18. - publ. 08/17/18
- 2015 — S. A. Bronov, D. D. Mishchenko, R. V. Esin Software simulation package three-phase asynchronous motor with short-closed rotor. Certificate on state registration of computer programs no. 2015618499, declared. 06/16/15. - publ. 08/11/18
- 2015 — S. A. Bronov, D. D. Mishchenko, R. V. Esin Calculation of the frequency-independent equations of the inductor double power supply. Certificate on state registration of computer programs no. 2015618385, declared. 06/15/15. - publ. 08/07/15

Grants

- 2018 — Technology for the development of adaptive teaching systems, providing personalization of training in the electronic environment, Russian Foundation for Basic Research