

Planning, building and development distributed integrated blended education ecosystem at different levels

Sabitov R., Smirnova G., Sabitov S., Elizarova N., Korobkova E.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Copyright © 2020 for this paper by its authors. The planning, formation and development distributed integrated ecosystem blended education at various levels is a very urgent task today. Solving this complex problem can make it possible not only to eliminate the disadvantages inherent in the distance education system, but also to create the basis for building a full-fledged educational technology. The basis for building such an ecosystem, in addition to purely didactic developments, can also be modern achievements in the field of systems theory, digitalization and artificial intelligence. Big data modeling and analytics allow you to create a complete set of technologies for creating an outsourcing network and digital educational chains and predict learning outcomes.

Keywords

Artificial intelligence, Blended learning, Cluster ecosystems, Digitalization, Distributed ecosystem, Modern educational technologies

References

- [1] Flek, M., Ugnich, E.: Professional-educational cluster as an ecosystem. *Journal of economic regulation* Volume 9, No 4 (2018)
- [2] *Obrazovanie dlya slozhnogo obshhestva* <http://vcht.center/wpcontent/uploads/2019/06/Obrazovanie-dlya-slozhnogo-obshhestva.pdf>, last accessed 2020/10/07
- [3] Pakhomova, N., Richter K., Vetrova, M.: Transition to a circular economy and closed supply chains as a factor in sustainable development. *Bulletin of St. Petersburg University. Economy.* Volume 33, issue 2, pp. 244-268. (2017)
- [4] Andryushkova, O., Grigoryev, S.: Methodology for assessing the quality of education based on negentropy. *Informatics and Education.* No. 10. pp. 37-45. (2019)
- [5] Andryushkova, O., Grigoriev, S.: Emergent learning in the information and educational environment. *Education and Computer Science*, pp. 104 (2018)
- [6] . Bakhtadze, N., Smirnova, G., Sabitov, R. and Elpashev, D: Identification and simulation models in logistics control systems for production processes and freighting. *IFAC-PapersOnLine* Volume 50 Issue 1 pp. 14638-14643 (2017)
- [7] Smirnova, G., Sabitov, R., Morozov, B., Sabitov, S., Elizarova, N.: To the problem of dynamic modeling and management in an integrated environment of the industrial cluster. *IFAC-PapersOnLine* Volume 48 Issue 3 pp. 1230-1235 (2015)
- [8] Frey, C., Osborne, M.: The future of employment: How susceptible are jobs to computerization? *Technological Forecasting and Social Change* pp. 114, 254-280 (2017)
- [9] Educational ecosystems for social transformation. *Global Education Futures. An Education for a Complex World: Why, Why, and How.* Report on the Global Education Leaders. <https://futuref.org/educationfutures>, last accessed 2020/10/07
- [10] *Blended, Project-Based and Social-Emotional Learning at Thrive Public Schools*, https://blogs.edweek.org/edweek/on_innovation/2016/04/blended_projectbased_and_social_emotional_learning_at_thrive_public_schools.html, last accessed 2017/08/15