

ганизационной среды, внешнего окружения, процессов и процедур. В статье представлены методы, которые широко используются для управления проектами, способствуют пониманию функций управления рисками и основаны на командной работе и сотрудничестве.

Сочетание представленных методов позволит обеспечить комплексный подход к управлению рисками в проектах для дальнейшей разработки новых инструментов управления рисками, соответствующих конкретным областям, но в то же время общих по структуре. Будущие разработки интегрированных и универсальных инструментов могут

привести к широкому использованию принципов управления рисками, что повысит конкурентные преимущества в бизнесе. ■

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Список литературы

1. Baccharini D. and Archer R. // *International Journal of Project Management*. — 2001. — Т. 19. — № 3.
2. Badiru A. B. // *Concurrent Engineering: Contemporary Issues and Modern Design Tools*. — London: Chapman & Hall, 1993.
3. Berny J. and Townsend P. R. F. // *Risk Management*. — 2003. — Т. 11. — № 4.
4. Clarke C. J. and Varma S. // *Long Range Planning*. — 2019. — Т. 32. — № 4.
5. Dawson R. J. and Dawson C. W. // *International Journal of Project Management*. — 2015. — Т. 16. — № 5.
6. Jaafari A. // *International Journal of Project Management*. — 2018. — Т. 19. — № 2.
7. Kara S., Kayis B. and Kaebernick H. // *Concurrent Engineering: Research and Applications*. — 2020. — Т. 7. — № 3.
8. Larson N. and Kusiak A. // *Journal of Integrated Computer-Aided Engineering*. — 2011. — Т. 3. — № 4.

Project Risk Management Methods

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risks, risk assessment, grey clustering, entropy weighting, linear weighting, weights

Risk management is an activity within the framework of project management, which is becoming increasingly important due to the modern and dynamic production. Before starting a risk reduction program, it is necessary to identify the sources of risks and their potential consequences.

In the article the methods of project risk assessment and management, hierarchical analysis method and grey clustering method are reviewed. The use of new methods for more accurate risk assessment is suggested, as well as bringing the assessment closer to reality. Future development of integrated and versatile tools may lead to widespread use of risk management principles, which will enhance competitive advantage in business.

References

1. Baccharini D. and Archer R., *International Journal of Project Management*, 2001, vol. 19, no. 3, pp. 139–145.
2. Badiru A. B., *Concurrent Engineering: Contemporary Issues and Modern Design Tools*, London, *Chapman & Hall*, 1993, pp. 93–109.
3. Berny J. and Townsend P. R. F., *Risk Management*, 2003, vol. 11, no. 4, pp. 201–208.
4. Clarke C. J. and Varma S., *Long Range Planning*, 2019, vol. 32, no. 4, pp. 414–424.
5. Dawson R. J. and Dawson C. W., *International Journal of Project Management*, 2015, vol. 16, no. 5, pp. 299–310.
6. Jaafari A., *International Journal of Project Management*, 2018, vol. 19, no. 2, pp. 89–101.
7. Kara S., Kayis B. and Kaebernick H., *Concurrent Engineering: Research and Applications*, 2020, vol. 7, no. 3, pp. 269–274.
8. Larson N. and Kusiak A., *Journal of Integrated Computer-Aided Engineering*, 2011, vol. 3, no. 4, pp. 279–290.