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Список литературы

1. Grer B. A. // Production Journal of Social Sciences. — 2021. — № 1.
2. Логанина В.И. Разработка системы менеджмента качества на предприятиях. — М.: КДУ, 2020.
3. Рассыхаева М.Д. Определение уровня зрелости аддитивных технологий / V Межд. форум: Метрологическое обеспечение инновационных технологий / Под ред. В.В. Окрепилова. — СПб: ГУАП, 2023.
4. Chabanenko A.V., Kurlov A.V. // Journal of Physics: Conference Series. — 2021.
5. Фролова Е.А., Чабаненко А.В., Рассыхаева М.Д. // Датчики и системы. — 2023. — № 4(1).
6. Чабаненко А.В. // Стандарты и качество. — 2024. — № 7.
7. Чабаненко А.В., Комарова В.С., Комаров Т.И., Рассыхаева М.Д. // Известия Самарского научного центра РАН. — 2024. — Т. 26. — № 4-3(120).

ми на всех уровнях организационной структуры.

Таким образом, применение интеллектуальных моделей зрелости процессов на базе данных производственного мониторинга открывает новые горизонты в управлении качеством, делая его более прозрачным, предсказуемым и эффективным. ■

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Intelligent Maturity Models of Quality Management Processes

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key words

quality, monitoring, maturity model, management processes, process maturity

The constant complexity of production technologies, increasing product requirements and competition in the global market require organizations to continuously improve their quality management systems. In this context, the concept of maturity of quality management processes reflects an organization's ability to consistently achieve set quality indicators, use resources efficiently, and adapt to changing environmental conditions. The authors discuss a comprehensive approach to building intelligent maturity models of quality management processes based on production monitoring data. Particular attention is paid to the theoretical foundations of the maturity concept, machine learning methods, the architecture of the intelligent maturity assessment system, the specifics of implementing and testing models in practice, as well as the prospects for the development of this area in the context of digital transformation of industry.

References

1. Grer B. A., *Production Journal of Social Sciences*, 2021, no. 1, pp. 225–227.
2. Loganina V.I. Development of a quality management system at enterprises, Moscow, *KDU*, 2020, 148 P.
3. Rassykhaeva M.D. Determination of the maturity level of additive technologies, V Int. forum: Metrological support of innovative technologies, ed. by V.V. Okrepilov, St. Petersburg, *SUAI*, 2023, pp. 237–241.
4. Chabanenko A.V., Kurlov A.V., *Journal of Physics: Conference Series*, 2021.
5. Frolova E.A., Chabanenko A.V., Rassykhaeva M.D., *Datchiki i sistemy*, 2023, no. 4(1), pp. 47–55.
6. Chabanenko A.V., *Standarty i kachestvo*, 2024, no. 7, pp. 92–98.
7. Chabanenko A.V., Komarova V.S., Komarov T.I., Rassykhaeva M.D., *Izvestiya Samarskogo nauchnogo tsentra RAN*, 2024, vol. 26, no. 4-3(120), pp. 446–451.