

REFERENCES

- [1] S. Kumar and T. Gopalakrishna, “SLI, a New Metric to determine Success of a Software Project,” 2022. [Online]. Available: <https://arxiv.org/pdf/1407.8377>. [Accessed: May 11, 2025].
- [2] L. Mcleod and S. Macdonel, *Factors that Affect Software Systems Development Project Outcomes: A Survey of Research*. [Online]. Available: <https://arxiv.org/pdf/2101.08442>. [Accessed: May 11, 2025].
- [3] G. Fridgen *et al.*, “The Importance of Continuous Value Based Project Management in the Context of Requirements Engineering,” 2013a. [Online]. Available: <https://arxiv.org/pdf/1301.5438>. [Accessed: May 11, 2025].
- [4] G. Fridgen *et al.*, “Risk Analysis and Success Levels of the Software Project Developed in Technocity,” 2019. [Online]. Available: <https://arxiv.org/pdf/1903.03163>. [Accessed: May 11, 2025].
- [5] G. Yaw Koi-Akrofi, E. Afful, and H. A. Matey, “I.T. PROJECT SUCCESS: PRACTICAL FRAMEWORKS BASED ON KEY PROJECT CONTROL VARIABLES,” *Int. J. Softw. Eng. Appl.*, vol. 10, no. 5, 2019a, doi: 10.5121/ijsea.2019.10504.
- [6] Trendowicz *et al.*, “An Integrated Approach for Identifying Relevant Factors Influencing Software Development Productivity,” 2019, doi: 10.1007/978-3-540-85279-7_18.
- [7] S. Jayasena and N. Jayathilake, “Identifying key risks in software project management in Sri Lanka,” 2011.
- [8] P. P. G. Dinesh Asanka, Chathura Rajapakshe, and Dilani Wickramaarachchi, “A Theory of Planned Behaviour (TPB) Based Study on the Reluctance of Sri Lankan IT Undergraduates in Pursuing a Software Quality Assurance Career,” *International Journal on Advances in ICT for Emerging Regions (ICTer)*, vol. 17, no. 4, pp. 113–123, Jan. 2025, doi: <https://doi.org/10.4038/icter.v17i4.7284>.
- [9] M. Wagner, “Continuous Quality Assurance and ML Pipelines under the AI Act,” in *Proc. 3rd Int. Conf. AI Eng.–Softw. Eng. AI (CAIN)*, 2024, pp. 247–249, doi: 10.1145/3644815.3644973.
- [10] L. E. Miciano and R. C. Miciano, “Challenges and Strategic Integration in Quality Management for Higher Education Institutions (HEIS),” *Am. J. Multidiscip. Res. Innov.*, vol. 3, no. 5, pp. 71–80, 2024, doi: 10.54536/AJMRI.V3I5.3395.
- [11] T. Raptics, A. Passarelle, and M. Conti, *Data Management in Industry 4.0: State of the Art and Open Challenges*. [Online]. Available: <https://arxiv.org/pdf/1902.06141>. [Accessed: May 12, 2025].
- [12] B. Meindl and J. Mendonça, “Mapping Industry 4.0 Technologies: From Cyber-Physical Systems to Artificial Intelligence,” 2021. [Online]. Available: <https://arxiv.org/pdf/2111.14168>. [Accessed: May 12, 2025].

- [13] T. R. Gopalakrishnan Nair, “A Effective Defect Prevention Approach in Software Process for Achieving Better Quality Levels,” 2008. [Online]. Available: www.cs.umd.edu/~mvz/mswe609/book/chapter2.pdf. [Accessed: May 12, 2025].
- [14] P. O’beirne, “FACING THE FACTS,” 2010. [Online]. Available: www.sysmod.com. [Accessed: May 12, 2025].
- [15] F. Elberzhager and J. Münch, *Using Early Quality Assurance Metrics to Focus Testing Activities*. [Online]. Available: <https://arxiv.org/pdf/1312.1043>. [Accessed: May 12, 2025].
- [16] G. Fridgen *et al.*, “The Importance of Continuous Value Based Project Management in the Context of Requirements Engineering,” 2013b. [Online]. Available: <https://arxiv.org/pdf/1301.5438>. [Accessed: May 12, 2025].
- [17] V. Velychko *et al.*, “New Information Technologies, Simulation and Automation,” *New Inf. Technol. Simul. Autom.* [Preprint], 2023, doi: 10.31274/isudp.2022.121.
- [18] M. Golec and S. Gill, *Computing: Looking Back and Moving Forward*. [Online]. Available: <https://arxiv.org/pdf/2407.12558>. [Accessed: May 12, 2025].
- [19] M. Egodawele, D. Sedera, and V. Bui, “A Systematic Review of Digital Transformation Literature (2013 -2021) and the development of an overarching a- priori model to guide future research,” 2022. Available: <https://arxiv.org/pdf/2212.03867>. [Accessed: May 12, 2025].
- [20] T. R. Gopalakrishnan Nair and T. R. Gopalakrishnan Nair Director, *Total Engineering, Analysis and Manufacturing Technologies*, 2008.
- [21] V. Miranskyy, M. Davison, and M. Reesor, “Metrics of Risk Associated with Defects Rediscovery,” 2011.
- [22] S. Wagner, F. Deissenboeck, and S. Winter, “Managing Quality Requirements Using Activity-Based Quality Models,” *Proc. Int. Conf. Softw. Eng.*, pp. 29–34, 2016, doi: 10.1145/1370099.1370107.
- [23] K. Taylor-Sakyi, “Reliability Testing Strategy Reliability in Software Engineering,” 2019. [Online]. Available: www.kevintaylorsakyi.me. [Accessed: May 12, 2025].
- [24] M. Kläs, C. Lampasona, and J. Münch, “Adapting Software Quality Models: Practical Challenges, Approach, and First Empirical Results,” in *Proc. SEAA*, pp. 341–348, 2011, doi: 10.1109/SEAA.2011.62.
- [25] V. Muntés-Mulero *et al.*, “Agile Risk Management for Multi-Cloud Software Development,” *IET Softw.*, vol. 13, no. 3, pp. 172–181, 2020a, doi: 10.1049/iet-sen.2018.5295.
- [26] M. Feldereed, J. Grob, and I. Schiefered, *Recent Results on Classifying Risk-Based Testing Approaches*. [Online]. Available: <https://arxiv.org/pdf/1801.06812>. [Accessed: May 12, 2025].

- [27] J. Cusik and W. Kluver, *Applying Software Defect Estimations: Using a Risk Matrix for Tuning Test Effort* [Online]. Available: <https://arxiv.org/pdf/0711.1669> [Accessed: May 12, 2025].
- [28] J. Xu *et al.*, *An effective software risk prediction management analysis of data using machine learning and data mining*. [Online]. Available: <https://arxiv.org/pdf/2406.09463>. [Accessed: May 12, 2025].
- [29] S. Harding *et al.*, “Individualised variable-interval risk-based screening in diabetic retinopathy: the ISDR research programme including RCT,” *Prog. Grants Appl. Res.*, vol. 11, no. 6, 2023, doi: 10.3310/HRFA3155.
- [30] S. Wagner, “A literature survey of the quality economics of defect-detection techniques,” *ISESE’06*, pp. 194–203, 2016, doi: 10.1145/1159733.1159763.
- [31] D. Holling, D. M. Fernández, and A. Pretschner, “A Field Study on the Elicitation and Classification of Defects for Defect Models,” *Lect. Notes Comput. Sci.*, vol. 9459, pp. 114–130, 2016, doi: 10.1007/978-3-319-26844-6_9.
- [32] S. Wagner, “A model and sensitivity analysis of the quality economics of defect-detection techniques,” *Proc. ISSSTA 2006*, pp. 73–83, 2016, doi: 10.1145/1146238.1146247.
- [33] P. O’beirne, “FACING THE FACTS,” 2020. [Online]. Available: www.sysmod.com. [Accessed: May 12, 2025].
- [34] L. Hidayati *et al.*, “Integrating Halal Assurance and Quality Management: A Strategic Framework for Sustainable Growth in the Food Industry,” *Ind. J. Teknol. Manaj. Agroind.*, vol. 13, no. 2, pp. 239–254, 2024, doi: 10.21776/UB.INDUSTRIA.2024.013.02.8.
- [35] T. S. Oyetunji *et al.*, “A Smart AI Framework for Construction Compliance, Quality Assurance, and Risk Management in Housing Projects,” *Int. J. Multidiscip. Res. Growth Eval.*, vol. 5, no. 1, pp. 1626–1634, 2024, doi: 10.54660/IJMRGE.2024.5.1.1626-1634.
- [36] J.-P. Steghöfer, “Challenges of Scaled Agile for Safety-Critical Systems,” 2019. [Online]. Available: <https://www.scaledagileframework.com/>. [Accessed: May 12, 2025].
- [37] R. Sohail *et al.*, “Supply Chain Resilience in VUCA World: Towards a Holistic Approach of Quality Assurance and Risk Management,” *Int. J. Manag. Res. Emerg. Sci.*, vol. 12, no. 1, 2022, doi: 10.56536/IJMRES.V12I1.182.
- [38] Z. D. Kelemen, G. Bényász, and Z. Badinka, “A measurement based software quality framework,” 2020.
- [39] R. K. Bhujang, “Graphical Visualization of Risk Assessment for Effective Risk Management during Software Development Process,” 2012, pp. 978–93.
- [40] M. Mehedi Rahman *et al.*, “AssessITS: Integrating procedural guidelines and practical evaluation metrics for organizational IT and Cybersecurity risk assessment,” 2018.

- [41] M. Vaghani, “Integrating Quality at Source into Supplier Management: A Pathway to Cost Efficiency and Regulatory Compliance,” *Int. J. Eng. Comput. Sci.*, vol. 13, no. 11, pp. 26641–26655, 2024, doi: 10.18535/IJECS/V13I11.4946.
- [42] G. Yaw Koi-Akrofi, E. Afful, and H. A. Matey, “I.T. PROJECT SUCCESS: PRACTICAL FRAMEWORKS BASED ON KEY PROJECT CONTROL VARIABLES,” *Int. J. Softw. Eng. Appl.*, vol. 10, no. 5, 2019b, doi: 10.5121/ijsea.2019.10504.
- [43] V. Muntés-Mulero *et al.*, “Agile Risk Management for Multi-Cloud Software Development,” *IET Softw.*, vol. 13, no. 3, pp. 172–181, 2020b, doi: 10.1049/iet-sen.2018.5295.
- [44] V. Braun and V. Clarke, “Using thematic analysis in psychology,” **Qualitative Research in Psychology**, vol. 3, no. 2, pp. 77–101, 2006.
- [45] M. D. Fetters, L. A. Curry, and J. W. Creswell, “Achieving integration in mixed methods designs—principles and practices,” *Health Services Research*, vol. 48, no. 6pt2, pp. 2134–2156, 2013.