

Mapping the Evolution and Future Directions of ISO/IEC 25010: A Bibliometric and Thematic Analysis

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Abstract

This study is a bibliometric analysis of 1,613 scientific articles focused on the ISO/IEC 25010, an international standard for software quality evaluation. The data were taken from the Scopus repository, from 1990 to 2025, indicating a consistent rise in the research productivity, reaching its zenith in 2023, providing further evidence of the international significance of ISO/IEC 25010 in areas, such as public administration, finance, education, and healthcare. While subjects of computer science and engineering continue to thrive, interdisciplinary applications are gaining popularity. The thematic mapping, keyword co-occurrence analysis, and publication trends revealed various articles centered

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around the normative models, user experience, empirical validation, structural design, quality assessment, and predictive modeling. These areas of expertise are founded on concepts, such as the software quality, quality control, and ISO standards, in addition to usability, machine learning, and cloud computing. International collaboration networks show strong connections between Spain, Philippines, and Indonesia. However, despite its flexibility, the standard faces challenges, including structural rigidity and a lack of installation, especially for Small and Medium-sized Enterprises (SMEs). The present study emphasizes the necessity for hybrid approaches that integrate ISO/IEC 25010 with agile and AI-driven methodologies.

Keywords: ISO/IEC 25010, ISO 9126, software quality model, SQuaRE, standards, ISO/IEC 25000

References

Y. Shulzhyk and V. Oslikovskiy, "The influence of software on the efficiency and innovation of economic processes," in *Global Digital Trends and their Impact on National Economic Progress*, Prague, Czech Republic: Oktan Print, 2024. DOI: <https://doi.org/10.46489/gdtatione-05-24-22>

R. Kazman and L. Pasquale, "Software Engineering in Society," *IEEE Software*, vol. 37, no. 1, pp. 7–9, Jan. 2020. DOI: <https://doi.org/10.1109/MS.2019.2949322>

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ISO/IEC 25010:2023 - Systems and software engineering: Systems and software Quality Requirements and Evaluation (SQuaRE), 2nd ed. Geneva, Switzerland: ISO, 2023.

A. Fath-Allah, L. Cheikhi, A. Idri, and R. E. Al-Qutaish, "Towards an E-Government Portals Quality Framework Based on ISO 25010," in 2018 6th International Conference on Control Engineering & Information Technology (CEIT), Istanbul, Turkey, July 2018, pp. 1–6. DOI: <https://doi.org/10.1109/CEIT.2018.8751906>

S. Lusiani and E. Princes, "Evaluating the Effectiveness of Mobile JKN Application in Indonesia: A User-Centric Approach Using the ISO 25010 Quality Model," Journal of Logistics, Informatics and Service Science, vol. 11, no. 10, pp. 485–500, Sept. 2024. DOI: <https://doi.org/10.33168/JLISS.2024.1028>

C. Zhang, B. Li, L. Wang, H. Xu, and T. Shao, "A Hierarchical Model for Quality Evaluation of Mixed Source Software Based on ISO/IEC 25010," International Journal of Software Engineering and Knowledge Engineering, vol. 33, no. 02, pp. 181–205, Feb. 2023. DOI: <https://doi.org/10.1142/S021819402250070X>

A. R. Muhram and M. Mustikasari, "Analysis of the quality of web-based online exams in the education and training agency of the Indonesian attorney general's office using ISO 25010 standards," Indonesian Journal of

Methods in Educational Institutions. Information, 17(6), 553.
[10.3390/info17060553](https://doi.org/10.3390/info17060553)

Mihael Plevnik, Borut Jereb (2027)
Evaluating logistics software quality: A systematic review and research agenda for ISO/IEC 25010 across supply chain digitalization research. Computer Standards & Interfaces, 99, 104187.
[10.1016/j.csi.2026.104187](https://doi.org/10.1016/j.csi.2026.104187)

Gladys L. Peña Pazos, Marina Fernández Miranda, Elberth E. García Panta, Adolfo Zeta Vite, Milagros Córdova de Chang, José H. Chang Valdiviezo, Juan F. Gonzales Vera, Adolfo A. Jurado Rosas (2026)

Anticipatory Governance and Artificial Intelligence: A Systematic Mapping and Research Agenda for Public Administration. Administrative Sciences, 16(7), 326.
[10.3390/admsci16070326](https://doi.org/10.3390/admsci16070326)

Multidisciplinary Science, vol. 1, no. 12, pp. 1541–1556, 2022. DOI: <https://doi.org/10.55324/ijoms.v1i12.228>

V. S. Barletta, D. Caivano, L. Colizzi, G. Dimauro, and M. Piattini, "Clinical-chatbot AHP evaluation based on 'quality in use' of ISO/IEC 25010," International Journal of Medical Informatics, vol. 170, Feb. 2023, Art. no. 104951. DOI: <https://doi.org/10.1016/j.ijmedinf.2022.104951>

F. H. Wattiheluw, S. Rochimah, C. Fatichah, and K. Z. Abidin, "Development of a Quality Model Based on ISO 25010 Using Fuzzy and PSO for E-commerce Websites," in 2020 17th International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON), Phuket, Thailand, June 2020, pp. 250–254. DOI: <https://doi.org/10.1109/ECTI-CON49241.2020.9158323>

A. Stefani, E. Vamvatsikou, and B. Vassiliadis, "Insights into B2C E-Commerce Quality Using ISO 25010," Journal of Software Engineering and Applications, vol. 16, no. 11, pp. 622–639, Nov. 2023. DOI: <https://doi.org/10.4236/jsea.2023.1611032>

M. Haoues, A. Sellami, H. Ben-Abdallah, and L. Cheikhi, "A guideline for software architecture selection based on ISO 25010 quality related characteristics," International Journal of System Assurance Engineering and Management, vol. 8, no. 2, pp. 886–909, Nov. 2017. DOI: <https://doi.org/10.1007/s13198-016-0546-8>

W. J. Huayllani and H. Rojas, "A Granular Conceptual Model to Define Requirements for Evaluating the Functional Completeness of a Pharmacy Information System," in Proceedings of the 2nd World Symposium on Software Engineering, New York, NY, USA, Aug. 2020, pp. 80–84. DOI: <https://doi.org/10.1145/3425329.3425344>

A. Malanowska and I. Bluemke, "ISO 25010 Support in Test Point Analysis for Testing Effort Estimation," in Integrating Research and Practice in Software Engineering, S. Jarzabek, A. Poniszewska-Marańda, and L. Madeyski, Eds. Cham: Springer International Publishing, 2020, pp. 209–222. DOI: https://doi.org/10.1007/978-3-030-26574-8_15

E. Trichkova-Kashamova, "Applying the ISO/IEC 25010 Quality Models to an Assessment Approach for Information Systems," in 2021 12th National Conference with International Participation (ELECTRONICA), Sofia, Bulgaria, Feb. 2021, pp. 1–4. DOI: <https://doi.org/10.1109/ELECTRONICA52725.2021.9513662>

K. Moumane, A. Idri, F. E. Aouni, J. Laghnimi, N. C. Benabdellah, and O. Hamal, "ISO/IEC 25010-based Quality Evaluation of Three Mobile Applications for Reproductive Health Services in Morocco," Clinical and Experimental Obstetrics & Gynecology, vol. 51, no. 4, Mar. 2024, Art. no. 88. DOI: <https://doi.org/10.31083/j.ceog5104088>

E. Peters and G. K. Aggrey, "An ISO 25010 Based Quality Model for ERP Systems," *Advances in Science, Technology and Engineering Systems Journal*, vol. 5, no. 2, pp. 578–583, 2020. DOI: <https://doi.org/10.25046/aj050272>

S. Karnouskos, R. Sinha, P. Leitão, L. Ribeiro, and Thomas. I. Strasser, "Assessing the Integration of Software Agents and Industrial Automation Systems with ISO/IEC 25010," in *2018 IEEE 16th International Conference on Industrial Informatics (INDIN)*, Porto, Portugal, July 2018, pp. 61–66. DOI: <https://doi.org/10.1109/INDIN.2018.8471951>

H. Rojas, R. Renteria, and V. Martinez, "Understanding Performance Efficiency in ISO/IEC 25000: A Systematic Literature Review," *International Journal on Informatics Visualization*, vol. 9, no. 4, 2025.

M. L. M. H. Cruz, M. en C. G. M. E. Segovia, Mtra. D. C. M. Álvarez, Mtro. J. R. C. Chan, M. en A. J. A. G. González, and M. A. C. Francisco Javier Barrera Lao, "Analysis of the Quality in Use and Greenability with the ISO/IEC 25010 Standard," in *2020 15th Iberian Conference on Information Systems and Technologies (CISTI)*, Seville, Spain, June 2020, pp. 1–7.

J. Estdale and E. Georgiadou, "Applying the ISO/IEC 25010 Quality Models to Software Product," in *Systems, Software and Services Process Improvement*, Cham, Switzerland, 2018, pp. 492–503. DOI: https://doi.org/10.1007/978-3-319-97925-0_42

A. F. Aguirre, Á. Villareal-Freire, R. Gil, and C. A. Collazos, "Extending the Concept of User Satisfaction in E-Learning Systems from ISO/IEC 25010," in Design, User Experience, and Usability: Understanding Users and Contexts, Cham, Switzerland, 2017, pp. 167–179. DOI: https://doi.org/10.1007/978-3-319-58640-3_13

C. Koch, "Standardization in emerging technologies: The case of additive manufacturing," in 2017 ITU Kaleidoscope: Challenges for a Data-Driven Society (ITU K), Nanjing, China, Aug. 2017, pp. 1–8. DOI: <https://doi.org/10.23919/ITU-WT.2017.8247005>

G. Bueno, Qué es la ciencia?: la respuesta de la teoria del cierre categorial ; ciencia y filosofía. Oviedo, Spain: Pentalfa, 1995.

J. A. Moral-Muñoz, E. Herrera-Viedma, A. Santisteban-Espejo, and M. J. Cobo, "Software tools for conducting bibliometric analysis in science: An up-to-date review," Profesional de la información, vol. 29, no. 1, Jan. 2020. DOI: <https://doi.org/10.3145/epi.2020.ene.03>

I. D. Cooper, "Bibliometrics basics," Journal of the Medical Library Association : JMLA, vol. 103, no. 4, pp. 217–218, Oct. 2015. DOI: <https://doi.org/10.3163/1536-5050.103.4.013>

P. A. Roa, C. Morales, and P. Gutiérrez, "Norma ISO/IEC 25000," TIA, vol. 3, no. 2, pp. 27–33, 2015.

M. N. A. Khan, A. M. Mirza, M. Shahid, R. A. Wagan, and I. Saleem, "State of Quality Engineering Practices: The Pakistan Perspective," *Engineering, Technology & Applied Science Research*, vol. 10, no. 5, pp. 6309–6315, Oct. 2020. DOI: <https://doi.org/10.48084/etasr.3782>

A. Shantyr, "Specifics of quality assessment models application at development and use stages of software systems," *Information technology and computer engineering*, vol. 59, no. 1, pp. 127–138, May 2024. DOI: <https://doi.org/10.31649/1999-9941-2024-59-1-127-138>

S. Becker, "Performance-Related Metrics in the ISO 9126 Standard," in *Dependability Metrics: Advanced Lectures*, I. Eusgeld, F. C. Freiling, and R. Reussner, Eds. Berlin, Heidelberg: Springer, 2008, pp. 204–206. DOI: https://doi.org/10.1007/978-3-540-68947-8_18

R. E. Al-Qutaish, "An Investigation of the Weaknesses of the ISO 9126 International Standard," in *2009 Second International Conference on Computer and Electrical Engineering*, Dubai, United Arab Emirates, Sept. 2009, vol. 1, pp. 275–279. DOI: <https://doi.org/10.1109/ICCEE.2009.83>

R. E. Al-Qutaish and H. J. Al-Fawareh, "Mapping Between ISO 9126 on Software Product Quality Metrics and ISO 12207 on Software Life Cycle Processes," in *The 2006 International Arab Conference on Information Technology (ACIT'2006)*, Jordan, 2006.

A. I. Abueid, "Big Data and Cloud Computing Opportunities and Application Areas," Engineering, Technology & Applied Science Research, vol. 14, no. 3, pp. 14509–14516, June 2024. DOI: <https://doi.org/10.48084/etasr.7339>

J. Palacio and C. Ruata, Scrum Manager: Gestión de proyectos. Safe Creative, 2007.

ISO/IEC 25000. Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Guide to SQuaRE. Geneva, Switzerland: ISO, 2023.

A. Adewumi, S. Misra, and N. Omoregbe, "Evaluating Open Source Software Quality Models Against ISO 25010," in 2015 IEEE International Conference on Computer and Information Technology; Ubiquitous Computing and Communications; Dependable, Autonomic and Secure Computing; Pervasive Intelligence and Computing, Liverpool, UK, July 2015, pp. 872–877. DOI: <https://doi.org/10.1109/CIT/IUCC/DASC/PICOM.2015.130>

A. Crespo, ISO 25000. La calidad del producto software. Valencia, Spain: ISO, 2018.

Y. M. S. Díaz and J. L. P. Luján, "Modelo de medición y evaluación de calidad del software basado en la norma ISO/IEC 25000 para medir la usabilidad en productos de software académicos universitarios," Tecnohumanismo,

vol. 2, no. 1, pp. 181–204, Mar. 2022. DOI:
<https://doi.org/10.53673/th.v2i4.125>

A. E. Soraluz Soraluz, M. Á. Valles Coral, and D. Levano Rodríguez, "Desarrollo guiado por comportamiento: buenas prácticas para la calidad de software," in 22nd LACCEI International Multi-Conference for Engineering, Education, and Technology: Sustainable Engineering for a Diverse, Equitable, and Inclusive Future at the Service of Education, Research, and Industry for a Society 5.0, San Jose, Costa Rica, Apr. 2023, vol. 39, pp. 190–204. DOI:
<https://doi.org/10.14482/inde.39.1.005.3>

ISO/IEC 25000 Standard - Certification of Personnel |
CTMA Consultants. Madrid, Spain: ISO, 2025.

L. D. M. França, M. A. T. Dantas, and H. I. D. Araújo-Júnior, "Bibliometric analysis of isotopic studies on Quaternary megafauna available in the Scopus database," Anais da Academia Brasileira de Ciências, vol. 94, 2022, Art. no. e20211404. DOI:
<https://doi.org/10.1590/0001-3765202220211404>

V. K. Singh, P. Singh, M. Karmakar, J. Leta, and P. Mayr, "The journal coverage of Web of Science, Scopus and Dimensions: A comparative analysis," Scientometrics, vol. 126, no. 6, pp. 5113–5142, June 2021. DOI:
<https://doi.org/10.1007/s11192-021-03948-5>

Y. Gavel and L. Iselid, "Web of Science and Scopus: a journal title overlap study," Online Information Review, vol. 32, no. 1, pp. 8–21, Feb. 2008. DOI: <https://doi.org/10.1108/14684520810865958>

J. Baas, M. Schotten, A. Plume, G. Côté, and R. Karimi, "Scopus as a curated, high-quality bibliometric data source for academic research in quantitative science studies," Quantitative Science Studies, vol. 1, no. 1, pp. 377–386, Feb. 2020. DOI: <https://doi.org/10.1162/qss.a.00019>

S. A. S. AlRyalat, L. W. Malkawi, and S. M. Momani, "Comparing Bibliometric Analysis Using PubMed, Scopus, and Web of Science Databases," Journal of Visualized Experiments: JoVE, no. 152, Oct. 2019. DOI: <https://doi.org/10.3791/58494>

J. Gorraiz and C. Schloegl, "A bibliometric analysis of pharmacology and pharmacy journals: Scopus versus Web of Science," Journal of Information Science, vol. 34, no. 5, pp. 715–725, Oct. 2008. DOI: <https://doi.org/10.1177/0165551507086991>

M. Aria and C. Cuccurullo, "bibliometrix: An R-tool for comprehensive science mapping analysis," Journal of Informetrics, vol. 11, no. 4, pp. 959–975, Nov. 2017. DOI: <https://doi.org/10.1016/j.joi.2017.08.007>

A. Seffah, M. Donyaee, R. B. Kline, and H. K. Padda, "Usability measurement and metrics: A consolidated model," Software Quality Journal, vol. 14, no. 2, pp. 159–178, June 2006. DOI: <https://doi.org/10.1007/s11219-006-7600-8>

R. G. Dromey, "A model for software product quality," IEEE Transactions on Software Engineering, vol. 21, no. 2, pp. 146–162, Oct. 1995. DOI: <https://doi.org/10.1109/32.345830>

A. Abran, "Usability meanings and interpretations in ISO standards," Software Quality Journal, vol. 11, pp. 323–336, Oct. 2015.

I. Heitlager, T. Kuipers, and J. Visser, "A Practical Model for Measuring Maintainability," in 6th International Conference on the Quality of Information and Communications Technology (QUATIC 2007), Sept. 2007, pp. 30–39. DOI: <https://doi.org/10.1109/QUATIC.2007.8>

H.-W. Jung, S.-G. Kim, and C.-S. Chung, "Measuring software product quality: a survey of ISO/IEC 9126," IEEE Software, vol. 21, no. 5, pp. 88–92, Sept. 2004. DOI: <https://doi.org/10.1109/MS.2004.1331309>

N. Bevan, "Quality in use: Meeting user needs for quality," Journal of Systems and Software, vol. 49, no. 1, pp. 89–96, Dec. 1999. DOI: [https://doi.org/10.1016/S0164-1212\(99\)00070-9](https://doi.org/10.1016/S0164-1212(99)00070-9)

X. Franch and J. P. Carvallo, "Using quality models in software package selection," IEEE Software, vol. 20, no. 1, pp. 34–41, Jan. 2003. DOI: <https://doi.org/10.1109/MS.2003.1159027>

B. Behkamal, M. Kahani, and M. K. Akbari, "Customizing ISO 9126 quality model for evaluation of B2B applications," Information and Software Technology, vol. 51, no. 3, pp. 599–609, Mar. 2009. DOI: <https://doi.org/10.1016/j.infsof.2008.08.001>

A. Hoerbst and E. Ammenwerth, "Electronic health records. A systematic review on quality requirements," Methods of Information in Medicine, vol. 49, no. 4, pp. 320–336, 2010. DOI: <https://doi.org/10.3414/ME10-01-0038>

Y. Liu, T. M. Khoshgoftaar, and N. Seliya, "Evolutionary Optimization of Software Quality Modeling with Multiple Repositories," IEEE Transactions on Software Engineering, vol. 36, no. 6, pp. 852–864, Aug. 2010. DOI: <https://doi.org/10.1109/TSE.2010.51>

R. Heimgärtner, "Human Factors of ISO 9241-110 in the Intercultural Context," in Advances in Ergonomics In Design, Usability & Special Populations: Part III, New York, NY, USA, 2022, vol. 20, no. 20. DOI: <https://doi.org/10.54941/ahfe1001297>

M. Wilczewski and I. Alon, "Language and communication in international students' adaptation: a

bibliometric and content analysis review," Higher Education, vol. 85, no. 6, pp. 1235–1256, June 2023. DOI: <https://doi.org/10.1007/s10734-022-00888-8>

V. P. G. Bretas and I. Alon, "Franchising research on emerging markets: Bibliometric and content analyses," Journal of Business Research, vol. 133, pp. 51–65, Sept. 2021. DOI: <https://doi.org/10.1016/j.jbusres.2021.04.067>

S. Z. M. Osman and R. M. Napeah, "A Visual Pattern of Two Decades of Literature on Mobile Learning: A Bibliometric Analysis," International Journal of Learning, Teaching and Educational Research, vol. 20, no. 10, Nov. 2021. DOI: <https://doi.org/10.26803/ijlter.20.10.16>

P. D. González Villalba and H. D. Ortega Domínguez, "Diseño e implementación de mejoras aplicando la norma ISO/IEC 25000 para la calidad de software en un sistema de gestión bibliotecario," Investigaciones y Estudios-UNA, vol. 15, no. 2, pp. 5–23, 2024. DOI: <https://doi.org/10.57201/ieuna2423466>

В. Бандура, М. Крихівський, and Т. Ваврик, "Integration of software quality models with new technologies," Naukovyi visnyk Donetskoho natsionalnoho tekhnichnoho universytetu, vol. 2, no. 12, pp. 15–21, 2024. DOI: <https://doi.org/10.31474/2415-7902-2024-2-13-15-21>

V. Verma, "The roots and evolution of the ISO," 2023. <https://www.linkedin.com/pulse/roots-evolution-iso->

[varun-verma/](#).

C. D. Herrera and E. M. Díaz, "Bibliometría y semántica en revistas de ciencias sociales del siglo XXI," *Revista General de Información y Documentación*, vol. 33, no. 1, pp. 115–146, June 2023. DOI: <https://doi.org/10.5209/rgid.89226>

J. P. Marroquin and C. R. Rodriguez, "Quality Assessment Model Based on ISO/IEC 25010 for E-Learning Platforms in the Cloud and Based on Laravel," in *2023 IEEE 15th International Conference on Computational Intelligence and Communication Networks (CICN)*, Bangkok, Thailand, Sept. 2023, pp. 751–757. DOI: <https://doi.org/10.1109/CICN59264.2023.10402281>

L. K. Falk, H. Sockel, and K. Chen, "Website Usability: A Re-Examination through the Lenses of ISO Standards," *International Journal of Wireless Networks and Broadband Technologies (IJWNBT)*, vol. 3, no. 2, pp. 1–20, 2014. DOI: <https://doi.org/10.4018/ijwnbt.2014040101>

D. Natale, "Extensions of ISO/IEC 25000 Quality Models to the Context of Artificial Intelligence," in *4th International Workshop on Experience with SQuaRE series and its Future Direction*, Tokyo, Japan, Dec. 2022.

E. Venson and R. Alfayez, "Bridging Theory to Practice in Software Testing Teaching through Team-based Learning (TBL) and Open Source Software (OSS) Contribution," in

Proceedings of the 46th International Conference on Software Engineering: Software Engineering Education and Training, Apr. 2024, pp. 72–81. DOI: <https://doi.org/10.1145/3639474.3640081>

O. Roba, "Digital Twin and ISO 25010: A Software Quality Analysis | Digital Twin," Feb. 25, 2025.

G. Starke, "Shortcomings of ISO 25010," INNOQ, 2023.

R. Singha and S. Singha, "AIoT Concepts and Integration: Exploring Customer Interaction, Ethics, Policy," in Artificial Intelligence of Things (AIoT) for Productivity and Organizational Transition, Pennsylvania, PA, USA: IGI Global Scientific Publishing, 2024. DOI: <https://doi.org/10.4018/979-8-3693-0993-3.ch002>

K. Pechlivanidis, "Towards a measurable standard for software product quality," M.S. thesis, Utrecht University, Utrecht, The Netherlands, 2024.

E. Irrazabal, J. Garzas, and E. Marcos, "Alignment of Open Source Tools with the New ISO 25010 Standard - Focus on Maintainability," in 6th International Conference on Software and Data Technologies, Seville, Spain, July 2011.



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