

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक
सिस्टम और सॉफ्टवेयर अभियांत्रिकी - सिस्टम और सॉफ्टवेयर
उत्पाद की गुणवत्ता हेतु आवश्यकताएँ एवं मूल्यांकन
(स्क्वेयर)-आर्टिफिशियल इंटेलिजेंस (एआई) सिस्टम की गुणवत्ता
मूल्यांकन के लिए प्रणाली

Draft Indian Standard
Systems and Software Engineering-
Systems and Software Quality Requirements and Evaluation
(SQuaRE) -Guidance for Quality Evaluation of Artificial
Intelligence (AI) Systems
ICS 35.080

Artificial Intelligence Sectional Committee, LITD 30	Last Date for Comments: 16 April 2024
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NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard which is identical to ‘ISO/IEC TS 25058:2024 Systems and software engineering— Systems and software Quality Requirements and Evaluation (SQuaRE)— Guidance for quality evaluation of artificial intelligence (AI) systems’ issued by the International Organization Standardization (ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards (BIS) on the recommendations of the the Artificial Intelligence Sectional Committee and approval of the Electronics and Information Technology Division Council.

The text of ISO/IEC Standard will be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’, and
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted draft standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC TS 4213, Information technology — Artificial intelligence — Assessment of machine learning classification performance	IS/ISO/IEC/TS 4213 : 2022 Information technology — Artificial intelligence — Assessment of machine learning classification performance	Identical with ISO/IEC/TS 4213 : 2022
ISO/IEC 22989, Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	IS/ISO/IEC 22989 : 2022 Information technology — Artificial intelligence — Artificial intelligence concepts and terminology	Identical with ISO/IEC 22989 : 2022
ISO/IEC 23053:2022, Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML)	IS/ISO/IEC 23053 : 2022 Framework for Artificial Intelligence AI Systems Using Machine Learning ML	Identical with ISO/IEC 23053 : 2022
ISO/IEC 25059:2023	IS/ISO/IEC 25059:2023	Identical with ISO/IEC

Software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Quality model for AI systems	Software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — Quality model for AI systems [Under Development: LITD 30 (23531)]	25059:2023
ISO/IEC/IEEE 29119-1 Software and systems engineering — Software testing — Part 1: General concepts	IS 11291 (Part 1) : 2023 ISO/IEC 29119-1 : 2022 Software and systems engineering — Software testing — Part 1: General concepts	Identical with ISO/IEC 29119-1 : 2022

The technical committee has reviewed the provisions of the following International Standard referred in this adopted draft standard and has decided that it is acceptable for use in conjunction with this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:-

International Standard	Title
ISO/IEC/IEEE 29148	Systems and software engineering — Life cycle processes — Requirements engineering

Scope of ISO/IEC TS 25058:2024 is as follows:

“This document provides guidance for evaluation of artificial intelligence (AI) systems using an AI system quality model.

The document is applicable to all types of organizations engaged in the development and use of AI .”

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer to ISO/IEC TS 25058:2024 or kindly contact

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