

BUREAU OF INDIAN STANDARDS

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मसौदा भारतीय मानक
सूचना प्रौद्योगिकी- आर्टिफिशियल इंटेलिजेंस-
एआई प्रणाली लाइफ साइकिल प्रक्रियाएं

Draft Indian Standard
Information Technology- Artificial Intelligence-
AI System Life Cycle Processes

ICS 35.020

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 5338:2023 Information technology— Artificial intelligence— AI system life cycle processes' 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:

- 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 22989:2022, 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, 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/IEEE 15288:2023 Systems and software engineering — System life cycle processes	IS/ISO/IEC/IEEE 15288:2023 Systems and software engineering — System life cycle processes [Under Development: LITD 14 (21947)]	Identical with ISO/IEC/IEEE 15288:2023
ISO/IEC/IEEE 12207:2017 Systems and software engineering — Software life cycle processes	IS 16124 : 2020 ISO/IEC/IEEE 12207 : 2017 Systems and software engineering — Software life cycle processes	Identical with ISO/IEC/IEEE 12207 : 2017

Scope of ISO/IEC 5338:2023 is as follows:

“This document defines a set of processes and associated concepts for describing the life cycle of AI systems based on machine learning and heuristic systems. It is based on

ISO/IEC/IEEE 15288 and ISO/IEC/IEEE 12207 with modifications and additions of AI-specific processes from ISO/IEC 22989 and ISO/IEC 23053.

This document provides processes that support the definition, control, management, execution and improvement of the AI system in its life cycle stages. These processes can also be used within an organization or a project when developing or acquiring AI systems. When an element of an AI system is traditional software or a traditional system, the software life cycle processes in ISO/IEC/IEEE 12207 and the system life cycle processes in ISO/IEC/IEEE 15288 can be used to implement that element .”

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 5338:2023 or kindly contact

Head,

Electronics & IT Department
Bureau of Indian Standards
9, B.S. Zafar Marg, New Delhi-110002
Email: hlitd@bis.gov.in, litd30@bis.gov.in
Telephone: 011-23608450
