

New

STANDARD

Standard

AI Act

Mapping

Terminology

The data presented have a value for research and not a legal value.

4213 - : 2022 ISO/IEC TS

Specification Assessment of Machine learning classification performance

Relationship with AI Act Article 006-Classification ... (Classification); Article 043-Conformity asse... (Assessment)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:ts:4213:ed-1:v1:en>

Scope TS This document specifies methodologies for measuring classification performance of machine learning models, systems and algorithms.

Full text Foreword
 ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
269 Machine learning					45
253 Classification				Article 006	45
286 Assessment				Article 043	45

OPTIONAL INFORMATION

Name and Surname Affiliation and Qualification LinkedIn ... other

Observations

4213 - 1 : ISO/IEC AWI

Specification Performance measurement for AI classification, regression, clustering and recommendation tasks

Relationship with AI Act Article 009-Risk management... (Measurement); Article 006-Classification ... (Classification)

Link <https://www.iso.org/standard/89455.html>

Scope This document specifies methodologies for measuring the performance of AI models for classification, regression, clustering and recommendation tasks.

Full text

Terms	%	Variant	Complementary	AI Act	
153 Measurement				Article 009	57
253 Classification				Article 006	57
300 Regression					57
301 Clustering					57

OPTIONAL INFORMATION

Name and Surname Affiliation and Qualification LinkedIn ... other

Observations

The data presented have a value for research and not a legal value.

5259 - 1 : 2024 ISO/IEC

Specification Overview, terminology and example

Relationship with AI Act **Article 015**-Accuracy, robustness, security and resilience; **Article 010**-Data and data governance (Data collection processes); **Article 017**-Quality management (Data life cycle); **Article 010**-Data and data governance (Data quality); **Article 009**-Risk management (Measurement)

Link <https://www.iso.org/standard/81088.html>

Scope This document provides the means for understanding and associating the individual documents of the ISO/IEC 5259 series and is the foundation for conceptual understanding of data quality for analytics and machine learning. It also discusses associated technologies and examples (e.g. use cases and usage scenarios).

Full text ISO/IEC 5259-1:2024 Artificial intelligence — Data quality for analytics and machine learning (ML) Part 1: Overview, terminology, and examples Published (Edition 1, 2024)

Terms	%	Variant	Complementary	AI Act	
30 Data life cycle				Article 017	15
29 Data collection processes				Article 015, Article 010	15
162 Data user					15
116 Data quality				Article 010	15
163 Data quality model					15
153 Measurement				Article 009	15
164 Analytics					15
165 Data quality management					15
166 Data governance					15
167 Data provenance					15

OPTIONAL INFORMATION

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Observations

5259 - 2 : 2024 ISO/IEC FDIS

Specification Data quality measures

Relationship with AI Act **Article 017**-Quality management (Bias detection and correction); **Article 005**-Prohibited AI; **Article 071**-EU database for (Accessibility); **Article 015**-Accuracy, robustness, security and resilience; **Article 013**-Transparency and accountability (Accuracy); **Article 015**-Accuracy, robustness, security and resilience; **Article 010**-Data and data governance (Bias detection and correction); **Article 017**-Quality management (Compliance); **Article 017**-Quality management (Data holder); **Article 017**-Quality management (Identifiability); **Article 010**-Data and data governance (Consistency); **Article 015**-Accuracy, robustness, security and resilience (Data quality reporting); **Article 015**-Accuracy, robustness, security and resilience (Data quality reporting); **Article 010**-Data and data governance (Origin of data); **Article 010**-Data and data governance (Quality criteria); **Article 012**-Record keeping (Traceability); **Article 010**-Data and data governance (Training, validation, testing datasets); **Article 074**-Market surveillance; **Article 013**-Transparency and accountability (Validation); **Article 010**-Data and data governance (Transparency and accountability (Datasets)); **Article 010**-Data and data governance (Data); **Article 012**-Record keeping; **Article 071**-EU database for (Data)

Link <https://www.iso.org/standard/81860.html>

Scope This document specifies a data quality model, data quality measures and guidance on reporting data quality in the context of analytics and machine learning (ML). This document is applicable to all types of organizations who want to achieve their data quality objectives.

Full text ISO/IEC FDIS 5259-2 Artificial intelligence — Data quality for analytics and machine learning (ML) Part 2: Data quality measures Under development This draft is in the approval phase.

Terms	%	Variant	Complementary	AI Act	
21 Compliance		complete		Article 017	3
1 Accessibility		access		Article 017, Article 005, Article 071	3
22 Data holder		identifiability		Article 017	3
25 Consistency				Article 010	3
11 Balance					3
20 Completeness					3
63 Resilience regarding errors, faults, inconsistency		dataset			3
13 Bias detection and correction		dataset		Article 015, Article 010, Article 017	3
26 Credibility			complementary		3
75 Understandability			complementary		3
27 Currentness			complementary		3
76 Validation			complementary	Article 074, Article 013	3
39 Efficiency			complementary		3
57 Quality criteria			complementary	Article 010	3
74 Training, validation, testing datasets			complementary	Article 010	3
56 Precision			complementary		3
60 Relevance			complementary		3
12 Benchmark and measurement methodologies			complementary		3

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Observations

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2024

ISO/IEC

Specification

Data quality management requirements and guidelines

Relationship with AI Act: Article 017-Quality managem..., Article 009-Risk management..., Article 012-Record keeping..., Article 006-Classification ..., Article 007-Amendment. to ... (Risk management); Article 043-Conformity asse... (Management)

Link

<https://www.iso.org/standard/81092.html>

Scope

This document specifies requirements and provides guidance for establishing, implementing, maintaining and continually improving the quality of data used in the areas of analytics and machine learning.

This document does not define a detailed process, methods or metrics. Rather it defines the requirements and guidance for a quality management process along with a reference process and methods that can be tailored to meet

Full text

ISO/IEC 5259-3:2024
Artificial intelligence — Data quality for analytics and machine learning (ML)
Part 3: Data quality management requirements and guidelines

Terms	%	Variant	Complementary	AI Act	
168 Data quality plan					16
165 Data quality management					16
169 Data quality culture					16
170 Management				Article 043	16
172 Audit and assessment					16
171 Data quality management lifecycle					16
173 Horizontal aspects					16
101 Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	16
174 Data format					16
175 Managing of data quality dependencies					16
176 Management system integration					16

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Observations

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2024

ISO/IEC

Specification

Data quality process framework

Relationship with AI Act: Article 017-Quality managem... (Data life cycle)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:5259:4:ed-1:v1.en>

Scope

This document establishes general common organizational approaches, regardless of the type, size or nature of the applying organization, to ensure data quality for training and evaluation in analytics and machine learning (ML). It includes guidance on the data quality process for: — supervised ML with regard to the labelling of data used for training ML systems, including common organizational approaches for training data labelling.

Full text

Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
177 Outsourcing					17
178 Cloud service					17
179 Segmentation					17
180 Data quality process principles					17
30 Data life cycle				Article 017	17
181 Data quality process validation					17
182 Data requirements					17
183 Data labelling					17
184 Data quality assessment					17
185 Data decommissioning					17

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Observations

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AI Act

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Technical Committee 533 AI



Hosting and developing

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Terms % Variant Complementary AI Act

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: 2024

ISO/IEC FDIS

Specification

Data quality governance framework

Relationship with AI Act

Article 010-Data and data g... (Governance)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:5259-5:dis:ed-1:v1:en>

Scope

This document provides a data quality governance framework for analytics and machine learning (ML) to enable governing bodies of organizations to direct and oversee the implementation and operation of data quality measures, management, and related processes with adequate controls throughout the data life cycle (DLC) model according to ISO/IEC 5259-1. This document can be applied to any analytics and ML. This document does not define specific management

Full text

PREVIEW
Artificial intelligence
— Data quality for analytics and machine learning (ML)
— Part

Terms	%	Variant	Complementary	AI Act	
166 Data governance					18
111 Governance			Article 010		18
146 Governance of information security					18
186 Data quality risk management					18
187 Responsibility of governing body					18
188 Establish enabling environment for data quality governance					18

OPTIONAL INFORMATION

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Observations

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: 2024

CD TR

Specification

Visualization framework for data quality

Relationship with AI Act

Article 010-Data and data g... (Data quality); Article 010-Data and data g...; Article 012-Record keeping...; Article 071-EU database fo... (Data)

Link

<https://www.iso.org/standard/86532.html>

Scope

Full text

Terms % Variant Complementary AI Act

Terms	%	Variant	Complementary	AI Act	
260 Data			Article 010, Article 012, Article 071		59
116 Data quality			Article 010		59
321 Visualization					59

OPTIONAL INFORMATION

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Observations

New

STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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5338 - : 2023 ISO/IEC

Specification AI System life cycle processes

Relationship with AI Act [Article 003-Definitions...](#), [Article 002-Scope...](#), [Article 004-AI literacy...](#), [Article 006-Classification...](#), [Article 007-Amendment to...](#), [Article 043-Conformity asse...](#), [Article 014-Human oversight...](#), [Article 072-Post-market mon...](#), [Article 074-Market surveill...](#), [Article 071-EU database fo...](#), [Article 013-Transparency an...](#), [Article 016-Obligations of ... \(AI systems\)](#), [Article 015-Accuracy, robus...](#), [Article 017-Quality managem...](#), [Article 009-Risk management... \(Lifecycle\)](#)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:5338:ed-1:v1:en>

Scope 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

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
189 Knowledge acquisition					20
49 Lifecycle				Article 015 , Article 017 , Article 009	20
122 System					20
4 AI systems				Article 003 , Article 002 , Article 004 , Article 006 , Article 007 , Article 043 , Article 014 , Article 072 , Article 074 , Article 071 , Article 013 , Article 016	20
190 Human resource management process					20
191 Quality management process					20
192 Knowledge management process					20
49 Lifecycle				Article 015 , Article 017 , Article 009	20
193 Maintenance process					20

OPTIONAL INFORMATION

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Observations

5339 - : 2024 ISO/IEC

Specification Guidance for AI application

Relationship with AI Act [Article 015-Accuracy, robus...](#), [Article 017-Quality managem...](#), [Article 009-Risk management... \(Lifecycle\)](#), [Article 017-Quality managem... \(Accountability\)](#)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:5339:ed-1:v1:en>

Scope This document provides guidance for identifying the context, opportunities and processes for developing and applying AI applications. The guidance provides a macro-level view of the AI application context, the stakeholders and their roles, relationship to the life cycle of the system, and common AI application characteristics and considerations.

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
235 Processes					52
113 Stakeholder					52
49 Lifecycle				Article 015 , Article 017 , Article 009	52
178 Cloud service					52
273 Accountability				Article 017	52

OPTIONAL INFORMATION

Name and Surname **Affiliation and Qualification** **Linkedin** ... other

Observations

New

STANDARD

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AI Act

Mapping

Terminology



The data presented have a value for research and not a legal value.

Terms % Variant Complementary AI Act

5469 - : 2024 ISO/IEC TR

Specification TR Functional safety and AI systems

Relationship with AI Act Article 001-Subject matter..., Article 073-Reporting of se..., Article 006-Classification ..., Article 007-Amendment. to ..., Article 043-Conformity asse..., Article 014-Human oversight... (Safety); Article 013-Transparency an... (Transparency)

Link https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:5469:ed-1:v1:en

Scope This document describes the properties, related risk factors, available methods and processes relating to: — use of AI inside a safety related function to realize the functionality; — use of non-AI safety related functions to ensure safety for an AI controlled equipment; — use of AI systems to design and develop safety related functions.

Full text Foreword ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
214 Safety				Article 001, Article 073, Article 006, Article 007, Article 043, Article 014	31
242 Risk factors					31
244 Explainability					31
243 Transparency				Article 013	31

OPTIONAL INFORMATION

Name and Surname	Affiliation and Qualification	Linkedin ... other
Observations		

Terms % Variant Complementary AI Act

6254 - : ISO/IEC CD TS

Specification Objective and approaches for explainability and interpretability of ML models and AI systems

Relationship with AI Act Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment. to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of ... (AI systems)

Link https://www.iso.org/standard/82148.html

Scope CD This document describes approaches and methods that can be used to achieve explainability objectives of stakeholders with regards to ML models and AI systems' behaviours, outputs, and results.

Full text ISO/IEC CD TS 6254 Information technology — Artificial intelligence — Objectives and approaches for explainability and interpretability of ML models and AI systems Under development A draft is being reviewed by the committee.

Terms	%	Variant	Complementary	AI Act	
244 Explainability					43
276 Interpretability					43
113 Stakeholder					43
4 AI systems				Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072, Article 074, Article 071, Article 013, Article 016	43

OPTIONAL INFORMATION

Name and Surname	Affiliation and Qualification	Linkedin ... other
Observations		

New

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AI Act

Mapping

Terminology

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8000 - 1 : 2022 ISO

Specification
Part 1: Overview

Relationship with AI Act
Article 010-Data and data g... (Data quality)

Link
<https://www.iso.org/obp/ui/en/#iso:std:iso:8000:-1:ed-1:v1:en>

Scope
This document provides an overview of the ISO 8000 series

Full text
 Foreword
ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical

Terms	%	Variant	Complementary	AI Act	
116 Data quality				Article 010	39
165 Data quality management					39
174 Data format					39
166 Data governance					39
235 Processes					39
261 Master data					39
113 Stakeholder					39
262 Industrial data					39
79 Organization					39

OPTIONAL INFORMATION

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Observations

8183 - : 2023 ISO/IEC

Specification
Data life cycle framework

Relationship with AI Act
Article 017-Quality managem... (Data life cycle); Article 074-Market surveill... (Verification and validation); Article 010-Data and data g... (Governance)

Link
<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:8183:ed-1:v1:en>

Scope
This document defines the stages and identifies associated actions for data processing throughout the artificial intelligence (AI) system life cycle, including acquisition, creation, development, deployment, maintenance and decommissioning. This document does not define specific services, platforms or tools. This document is applicable to all organizations, regardless of type, size or nature, that use data in the development and use of AI systems.

Full text
 Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
31 Data processed are secured, protected, subject to suitable safeguards, including strict controls					11
93 Preparation					11
30 Data life cycle				Article 017	11
94 Decommissioning					11
88 Support					11
109 Business requirements					11
110 Verification and validation				Article 074	11
111 Governance				Article 010	11

OPTIONAL INFORMATION

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Observations

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8200 - : 2024 ISO/IEC TS

Specification
Controllability of automated artificial intelligence systems

Relationship with AI Act
Article 007-Amendment. to ... (Autonomy); Article 014-Human oversight... (Controller)

Link
<https://www.iso.org/standard/83012.html>

Scope
TS This document specifies a basic framework with principles, characteristics and approaches for the realization and enhancement of automated artificial intelligence (AI) systems' controllability. The following areas are covered:
 — state observability and state transition;
 — control transfer process and cost;
 — reaction to uncertainty during control transfer;
 — verification and validation approaches.

Full text
ISO/IEC TS 8200:2024
Information technology — Artificial intelligence — Controllability of automated artificial intelligence systems
Published (Edition 1, 2024)

Terms	%	Variant	Complementary	AI Act	
95 Controllability					44
277 Ontology					44
266 Autonomy			Article 007		44
278 Controller			Article 014		44
95 Controllability					44
275 Functional safety					44

OPTIONAL INFORMATION

Name and Surname **Affiliation and Qualification** **Linkedin ... other**

Observations

9868 - : ISO/IEC DIS

Specification
Biometric identification systems involving passive capture

Relationship with AI Act
Article 015-Accuracy, robustness... (Security); Article 043-Conformity assessment... (Management); Article 003-Definitions... Article 005-Prohibited AI P... (Biometric data)

Link
<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:9868:dis:ed-1:v1:en>

Scope
DIS This document establishes recommendations and requirements for the design, development, use and maintenance of biometric identification systems involving passive capture subjects including pre and post deployment evaluation. While the emphasis is on surveillance systems, other types of biometric identification systems involving passive capture subjects are in scope, regardless of biometric characteristic or sensing technology. This includes systems involving

Full text
Foreword
ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical

Terms	%	Variant	Complementary	AI Act	
290 Biometric data				Article 003, Article 005	51
291 Biometric identification					51
292 Biometric characteristic					51
265 Algorithm					51
15 Bias in AI system					51
66 Security			Article 015		51
170 Management			Article 043		51
293 Biometric algorithm					51

OPTIONAL INFORMATION

Name and Surname **Affiliation and Qualification** **Linkedin ... other**

Observations

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17847 - : ISO/IEC TS

Specification
 Verification and validation analysis of AI systems

Relationship with AI Act
 Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of ... (AI systems); Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management..., (Lifecycle); Article 074-Market surveill... (Verification and validation)

Link
<https://www.iso.org/standard/85072.html>

Scope
 AWI TS
 This document describes approaches and provides guidance on processes for the verification and validation analysis of AI systems (comprising AI system components and the interaction of non-AI components with the AI system components) including formal methods, simulation and evaluation. This document is applicable for AI systems verification and validation in the context of the AI system life cycle

Full text
 ISO/IEC AWI TS 17847
 Information technology — Artificial intelligence — Verification and validation analysis of AI systems
 Under development
 A working group has prepared a draft.

Terms	%	Variant	Complementary	AI Act
110 Verification and validation				Article 074 48
235 Processes				48
4 AI systems				Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072, Article 074, Article 071, Article 013, Article 016 48
282 Formal method				48
90 Evaluation				48
49 Lifecycle				Article 015, Article 017, Article 009 48

OPTIONAL INFORMATION

Name and Surname: Affiliation and Qualification: LinkedIn ... other:

Observations

21221 - : ISO/IEC WD

Specification
 Beneficial AI systems

Relationship with AI Act
 Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of ... (AI systems); Article 071-EU database fo ... (User); Article 007-Amendment to ... (Use-cases); Article 007-Amendment to ... (Benefit); Article 007-Amendment to ... (Beneficial)

Link

Scope
 This document describes the benefits of AI systems as perceived by their stakeholders. AI system benefits can be considered functional, economic, environmental, social, societal, cultural, intellectual and personal. The document includes illustrative use cases of AI systems.

Full text

Terms	%	Variant	Complementary	AI Act
299 Beneficial				Article 007 55
298 Benefit				Article 007 55
4 AI systems				Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072, Article 074, Article 071, Article 013, Article 016 55
258 Use-cases				Article 007 55
124 User				Article 071 55

OPTIONAL INFORMATION

Name and Surname: Domenico Natale Affiliation and UNI CT 533 Qualification: LinkedIn ... other:

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22443

ISO/IEC AWI TS

Specification

Guidance on addressing societal concerns and ethical considerations

Relationship with AI Act

Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of ... (AI systems); Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... (Lifecycle)

Link

<https://www.iso.org/standard/87119.html>

Scope

AWI TS This document provides guidance on how an organization can identify and address societal concerns and ethical considerations during the life cycle of AI systems that can potentially harm individuals and society. The document expands existing AI system governance, management system and impact assessment standards.

Full text

ISO/IEC AWI TS 22443
 Information technology — Artificial intelligence — Guidance on addressing societal concerns and ethical considerations
 Under development
 A working group has prepared a draft.

Terms	%	Variant	Complementary	AI Act
250 Societal concerns				50
249 Ethical concerns				50
49 Lifecycle			Article 015, Article 017, Article 009	50
4 AI systems			Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072, Article 074, Article 071, Article 013, Article 016	50

OPTIONAL INFORMATION

Name and Surname: _____ Affiliation and Qualification: _____ LinkedIn ... other: _____

Observations: _____

22989

2022 ISO/IEC

Specification

Artificial intelligence concepts and terminology

Relationship with AI Act

Article 015-Accuracy, robus... (Data quality reporting); Article 074-Market surveill..., Article 013-Transparency an... (Validation); Article 003-Definitions..., Article 001-Subject matter... (Artificial Intelligence); Article 015-Accuracy, robus..., Article 013-Transparency an... (Cybersecurity); Article 004-AI literacy... (Knowledge)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:22989:ed-1:v1:en>

Scope

This document establishes terminology for AI and describes concepts in the field of AI. This document can be used in the development of other standards and in support of communications among diverse, interested parties or stakeholders. This document is applicable to all types of organizations (e.g. commercial enterprises, government agencies, not-for-profit organizations).

Full text

Foreword
 ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act
194 Artificial intelligence				Article 003, Article 001 26
64 Terms related to AI				26
206 Terms related to computer vision				26
201 Terms related to data				26
202 Terms related to machine learning				26
205 Terms related to natural language processing				26
203 Terms related to neural networks				26
204 Terms related to trustworthiness				26
28 Data quality reporting			Article 015	26
215 Cybersecurity			Article 015, Article 013	26
231 Knowledge			Article 004	26
76 Validation			Article 074, Article 013	26

OPTIONAL INFORMATION

Name and Surname: Domenico Natale Affiliation and UNI CT 533 (member) Qualification: _____ LinkedIn <https://www.linkedin.com/in/domenico-natale-a9b99812/> ... other originalSubdomain=it

Observations: _____

The data presented have a value for research and not a legal value.

25010 - : 2023 ISO/IEC

Specification SQuARE - Product quality model

Relationship with AI Act Article 015-Accuracy, robustness (Security); Article 001-Subject matter... Article 073-Reporting of serious incidents... Article 006-Classification ... Article 007-Amendment to ... Article 043-Conformity assessment... Article 014-Human oversight... (Safety)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:25010:ed-2:v1:en>

Scope This document defines a product quality model, which is applicable to ICT (information and communication technology) products and software products. The product quality model is composed of nine characteristics (which are further subdivided into subcharacteristics) that relate to quality properties of the products. The characteristics and subcharacteristics provide a reference model for the quality of the products to be specified, measured and evaluated.

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
207 Functional suitability					27
208 Performance efficiency					27
98 Compatibility					27
210 Interaction capability					27
211 Reliability					27
66 Security			Article 015		27
99 Maintainability					27
213 Flexibility					27
214 Safety			Article 001, Article 073, Article 006, Article 007, Article 043, Article 014		27

OPTIONAL INFORMATION

Name and Surname: Domenico Natale | Affiliation and UNI CT 504 (president) | Qualification: | LinkedIn: iso25000.it ... other

Observations

25012 - : 2008 ISO/IEC

Specification Data quality model

Relationship with AI Act Article 017-Quality management... Article 005-Prohibited AI P... Article 074-EU database for... (Accessibility); Article 015-Accuracy, robustness... Article 013-Transparency and... (Accuracy); Article 010-Data and data quality... (Complete); Article 017-Quality management... (Compliance); Article 010-Data and data quality... (Consistency); Article 012-Record keeping... (Traceability); Article 010-Data and data quality... (Data quality)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:25012:ed-1:v1:en>

Scope This International Standard defines a general data quality model for data retained in a structured format within a computer system. This International Standard focuses on the quality of the data as part of a computer system and defines quality characteristics for target data used by humans and systems.

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
2 Accuracy				Article 015, Article 013	38
20 Completeness		Complete			38
27 Currentness					38
21 Compliance				Article 017	38
26 Credibility					38
1 Accessibility				Article 017, Article 005, Article 071	38
25 Consistency				Article 010	38
39 Efficiency					38
75 Understandability					38
73 Traceability				Article 012	38
56 Precision					38
116 Data quality				Article 010	38
163 Data quality model					38
259 Quality characteristics					38
23 Confidentiality					38
141 Availability					38
55 Portability					38
59 Recoverability					38

OPTIONAL INFORMATION

Name and Surname: Domenico Natale | Affiliation and UNI CT 504 | Qualification: | LinkedIn: ... other

Observations

The data presented have a value for research and not a legal value.

25019

2023

ISO/IEC

Specification

Quality-in-use model

Relationship with AI Act

Article 017-Quality managem..., Article 005-Prohibited AI P..., Article 071-EU database fo ... (Accessibility); Article 017-Quality managem... (Compliance); Article 017-Quality managem..., Article 072-Post-market mon... (Post-market); Article 010-Data and data g... (Data quality); Article 071-EU database fo ... (User); Article 004-AI literacy... (Experience); Article 074-Market surveill... (Verification)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:25019:ed-1:v1:en>

Scope

This document defines a quality-in-use model composed of three characteristics (which are further subdivided into sub-characteristics) that can influence stakeholders when products or systems are used in a specified context of use. This model is applicable to the entire spectrum of information system and IT service system, including both computer systems in use and software products in use. This document provides a set of quality

Full text



Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
100 Post-market				Article 017, Article 072	25
112 Monitoring					25
113 Stakeholder					25
90 Evaluation					25
1 Accessibility				Article 017, Article 005, Article 071	25
97 Usability					25
116 Data quality				Article 010	25
115 Customer					25
117 Information system					25
79 Organization					25
118 Quality-in-use					25
119 Risk					25
120 Society					25
121 Software quality					25
122 System					25
123 Target entity					25
125 Direct user					25
124 User				Article 071	25

OPTIONAL INFORMATION

Name and Surname	Domenico Natale	Affiliation and UNI CT 504 (president) Qualification	Linkedin iso25000.it ... other
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Observations

25024

2015

ISO/IEC

Specification

Measurement of data quality

Relationship with AI Act

Article 017-Quality managem..., Article 005-Prohibited AI P..., Article 071-EU database fo ... (Accessibility); Article 015 Accuracy, robus..., Article 013-Transparency an... (Accuracy); Article 017-Quality managem... (Compliance); Article 010-Data and data g... (Consistency); Article 015-Accuracy, robus... (Measurement and method); Article 010-Data and data g... (Quality criteria); Article 012-Record keeping... (Traceability); Article 010-Data and data g... (Training, validation, testing datasets); Article 074-Market surveill..., Article 013-Transparency an... (Validation); Article 010-Data and data g... (Data); Article 012-Record keeping..., Article 071-EU database fo ... (Data)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:25024:ed-1:v1:en>

Scope

This International Standard defines data quality measures for quantitatively measuring the data quality in terms of characteristics defined in ISO/IEC 25012. This International Standard contains the following:
— a basic set of data quality measures for each characteristic;
— a basic set of target entities to which the quality measures are applied during the data-life-cycle;
— an explanation of how to apply data quality

Full text



Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
2 Accuracy		free of errors		Article 015, Article 013	2
21 Compliance		complete		Article 017	2
1 Accessibility		access		Article 017, Article 005, Article 071	2
50 Measurement and method				Article 015	2
23 Confidentiality		personal data			2
11 Balance					2
26 Credibility			complementary		2
25 Consistency			complementary	Article 010	2
27 Currentness			complementary		2
76 Validation			complementary	Article 074, Article 013	2
40 Eliminate or reduce biased output			complementary		2
57 Quality criteria			complementary	Article 010	2
74 Training, validation, testing datasets			complementary	Article 010	2
56 Precision			complementary		2
60 Relevance			complementary		2
50 Measurement and method				Article 015	2
10 Auditability					2
142 Non-repudiation					2

OPTIONAL INFORMATION

Name and Surname	Domenico Natale	Affiliation and UNI CT 504 (president) Qualification	Linkedin iso25000.it ... other
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Observations

New

STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

The data presented have a value for research and not a legal value.

25058

2024

ISO/IEC TS

Specification

Guidance for quality evaluation of AI systems

Relationship with AI Act

Article 017-Quality managem..., Article 009-Risk management...,
 Article 012-Record keeping..., Article 006-Classification ...,
 Article 007-Amendment. to ... (Risk management)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:ts:25058:ed-1:v1:en>

Scope

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

Full text

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical

Terms	%	Variant	Complementary	AI Act	
35					47
90					47
51					47
78					47
280					47
279					47
208					47
97					47
207					47
101				Article 017, Article 009, Article 012, Article 006, Article 007	47
250					47
131					47
132					47
130					47
129					47
281					47

OPTIONAL INFORMATION

Name and Surname: Domenico Natale | Affiliation and UNI CT 504 Qualification: | LinkedIn: ... other

Observations

25059

2023

ISO/IEC

Specification

Quality model for AI Systems

Relationship with AI Act

Article 017-Quality managem..., Article 005-Prohibited AI P...,
 Article 071-EU database fo ... (Accessibility); Article 017-Quality managem..., (AI models); Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification ...,
 Article 007-Amendment. to ..., Article 043-Conformity asse...,
 Article 014-Human oversight..., Article 072-Post-market mon...,
 Article 074-Market surveill..., Article 071-EU database fo ...,
 Article 013-Transparency an..., Article 016-Obligations of ... (AI systems); Article 010-Data and data g... (Annotation); Article 015-Accuracy, robus..., Article 013-Transparency an... (Robustness); Article 015-Accuracy, robus... (Security); Article 013-Transparency an... (Transparency)

Link

<https://www.iso.org/obp/ui/en/#iso:std:iso-iec:25059:ed-1:v1:en>

Scope

This document outlines a quality model for AI systems and is an application-specific extension to the standards on SQuaRE. The characteristics and sub-characteristics detailed in the model provide consistent terminology for specifying, measuring and evaluating AI system quality. The characteristics and sub-characteristics detailed in the model also provide a set of quality characteristics against which stated quality requirements can be compared for completeness.

Full text

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate

Terms	%	Variant	Complementary	AI Act	
5				Article 010	19
35					19
4				Article 001, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072, Article 074, Article 071, Article 013, Article 016	19
3				Article 017	19
1				Article 017, Article 005, Article 071	19
95					19
78					19
64					19
66			Cybersecurity	Article 015	19
97			Interaction capability		19
98					19
243				Article 013	19
51					19
18				Article 015, Article 013	19
303					19
250					19
304					19
211					19

OPTIONAL INFORMATION

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Observations

New

STANDARD

Standard

AI Act

Mapping

Terminology

The data presented have a value for research and not a legal value.

29119 - 11 : 2020 ISO/IEC TR

Specification Guidelines on the testing of AI-based systems (2020)

Relationship with AI Act
 Article 015-Accuracy, robu... Article 013-Transparency an... (Accuracy); Article 060-Testing of high... (Testing); Article 007-Amendment. to ... (Autonomy); Article 013-Transparency an... (Metrics); Article 043-Conformity asse... (Assessment)

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:29119:-11:ed-1:v1:en>

Scope
 This document TR (2020) provides an introduction to AI-based systems. These systems are typically complex (e.g. deep neural nets), are sometimes based on big data, can be poorly specified and can be non-deterministic, which creates new challenges and opportunities for testing them.

AWI TS under development
 This document describes testing techniques (including those described in ISO/IEC/IEEE 29119

Full text
 Foreword
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Terms	%	Variant	Complementary	AI Act	
2 Accuracy				Article 015, Article 013	49
128 Freedom from risk					49
265 Algorithm					49
266 Autonomy				Article 007	49
14 Bias					49
283 Deep learning					49
244 Explainability					49
276 Interpretability					49
56 Precision					49
274 Robot					49
284 Test data					49
285 Metrics				Article 013	49
196 Testing				Article 060	49
286 Assessment				Article 043	49

OPTIONAL INFORMATION

Name and Surname Domenico Natale Affiliation and UNI CT 504 Qualification LinkedIn ... other

Observations

31000 - : 2018 ISO

Specification Risk management - Guidelines

Relationship with AI Act
 Article 017-Quality managem... Article 009-Risk management... Article 012-Record keeping... Article 006-Classification ... Article 007-Amendment. to ... (Risk management)

Link <https://www.iso.org/obp/ui/en/#iso:std:65694:en>

Scope
 ISO 31000 provides guidelines on managing risks faced by organizations.

Full text
 Foreword
 ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical

Terms	%	Variant	Complementary	AI Act	
79 Organization					37
101 Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	37
113 Stakeholder					37

OPTIONAL INFORMATION

Name and Surname Affiliation and UNI CT 504 Qualification LinkedIn ... other

Observations

