New

STANDARD

| Standard | AI Act | | Mapping | | Terminology |
Sort

Technical Committee 533 AI

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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)*

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

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

Scope/Abstact 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

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)*

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

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

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

Full text

OPTIONAL INFORMATION

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

Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

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

UNI | Technical Committee 533 AI
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5259 - 1 : 2024 | ISO/IEC

Specification: Overview, terminology and examplse

Relationship with Ai Act:
Article 015-Accuracy, robus..., Article 010-Data and data g..., Article 017-Quality managem... (Data collection processes); Article 017-Quality managem... (Data life cycle); Article 010-Data and data g... (Data quality); Article 009-Risk management... (Measurement)

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

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

Scope/Abstact: 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

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)

OPTIONAL INFORMATION
Name and Surname: Domenico Natale
Affiliation and Qualification: UNI CT 533 (member)
Linkedin: https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it
Observations:

5259 - 2 : 2024 | ISO/IEC FDIS

Specification: Data quality measures

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 015-Accuracy, robus..., Article 010-Data and data g... Article 017-Quality managem... (Bias detection and correction); Article 017-Quality managem... (Compliance); Article 017-Quality managem... (Identifiability); Article 010-Data and data g... (Consistency); Article 015-Accuracy, robus... (Data quality reporting); Article 015-Accuracy, robus..., Article 010-Data and data g... (Origin of data); 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..., Article 013-Transparency an... (Datasets); Article 010-Data and data g..., Article 017-Quality managem..., Article 012-Record keeping..., Article 071-EU database fo ... (Data)

	Terms	%	Variant	Complementary	AI Act	
21	Compliance		complete		Article 017	3
1	Accessibility		access		Article 017, Article 005, Article 071	3
23	Confidentiality		identifiability			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

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

Scope/Abstact: 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

Full text: ISO/IEC FDIS 5259-2
Artificial intelligence — Data quality for analytics and machine learning (ML)
Part 2: Data quality measures
Under development

OPTIONAL INFORMATION
Name and Surname: Domenico Natale
Affiliation and Qualification: UNI CT 533 (member)
Linkedin: https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it
Observations:

New | **STANDARD** | Standard | AI Act | Mapping | Terminology | UNI | **Technical Committee 533 AI**
Sort | | New | | ai open mind | Hosting and developing

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5259 - 3 : 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)*

	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

Link https://www.iso.org/standard/81092.html

Scope/Abstact 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,...

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

OPTIONAL INFORMATION

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

Observations:

5259 - 4 : 2024 ISO/IEC

Specification — Data quality process framework

Relationship with Ai Act — **Article 017**-Quality managem... *(Data life cycle)*; **Article 017**-Quality managem... *(Data labelling)*

	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				Article 017	17
184	Data quality assessment					17
185	Data decommisionig					17

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

Scope/Abstact 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...

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 and IEC participate...

OPTIONAL INFORMATION

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

Observations:

| New | **STANDARD** | Standard | AI Act | Mapping | Terminology | UNI | **Technical Committee** 533 AI |
| | | Sort | | | New | | ai open mind — Hosting and developing |

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

5259 - 5 : 2024 ISO/IEC FDIS

Specification Data quality governance framework

Relationship with Ai Act Article 010-Data and data g... *(Governance)*

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 Responsability of governing body				18
188 Establish enabling environment for data quality governance				18

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

Scope/Abstact 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

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

OPTIONAL INFORMATION

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

Observations

5259 - 6 : 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 017-Quality managem..., Article 012-Record keeping..., Article 071-EU database fo ... *(Data)*

Terms	% Variant	Complementary	AI Act	
260 Data			Article 010, Article 017, Article 012, Article 071	59
116 Data quality			Article 010	59
321 Visualization				59

Link https://www.iso.org/standard/86532.html

Scope/Abstact

Full text

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| Name and Surname | Domenico Natale | Affiliation and Qualification | UNI CT 533 | Linkedin ... other | |

Observations

New | **STANDARD**

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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 ..., Article 020-Corrective acti... *(AI systems)*; Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... *(Lifecycle)*

	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, Article 020	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

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

Scope/Abstact 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

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname: Domenico Natale | Affiliation and Qualification: UNI CT 533 (member) | Linkedin https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it
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)*

	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

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

Scope/Abstact 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 assesses AI application

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname: | Affiliation and Qualification: | Linkedin ... other
Observations:

New **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

UNI | Technical Committee 533 AI

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

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)*

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

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

Scope/Abstact: 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

Full text: Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION

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

Observations

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 oversill..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo ..., Article 013-Transparency an..., Article 016-Obligations of ..., Article 020-Corrective acti... *(AI systems)*

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, Article 020	43

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

Scope/Abstact: 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

OPTIONAL INFORMATION

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

Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

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UNI | Technical Committee 533 AI

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8000 - 1 : 2022 | ISO

Specification Part 1: Overview

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

	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

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

Scope/Abstact 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

OPTIONAL INFORMATION

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

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)*

	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	Busness requirements					11
110	Verification and validation				Article 074	11
111	Governance				Article 010	11

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

Scope/Abstact 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.

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION

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

Observations:

New | **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

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8200 - : 2024 | ISO/IEC TS

Specification
Controllability of automated arttificial intelligence systems

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

	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

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

Scope/ Abstact
TS This document specifies a basic framework with principles, characteristics and approaches for the realization and enhancement for automated artificial intelligence (AI) systems' controllability.
The following areas are covered:

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

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, robus... *(Security)*; Article 043-Conformity asse... *(Management)*; Article 003-Definitions..., Article 005-Prohibited AI P... *(Biometric data)*

	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

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

Scope/ Abstact
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.

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

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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.

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12182 - : 2015 ISO/IEC TR

Specification: Framework for categorization of IT systems and software, and guide for applying it

Relationship with Ai Act: Article 002-Scope..., Article 006-Classification ... *(Service)*

	Terms	%	Variant	Complementary	AI Act	
252	Categorization		Classification			35
122	System					35
254	Software					35
255	Service				Article 002, Article 006	35
113	Stakeholder					35
257	IT system					35
118	Quality-in-use					35

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:12182:ed-2:v1:en

Scope/Abstact: This TR specifies the manner in which categorizations of IT systems and software are organized and expressed

Full text: Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

12791 - 2 : 2024 ISO/IEC DTS

Specification: Treatment of unwanted bias i classification and regression machine learninf tasks

Relationship with Ai Act: Article 060-Testing of high... *(Testing)*

	Terms	%	Variant	Complementary	AI Act	
14	Bias					60
196	Testing				Article 060	60
113	Stakeholder					60
163	Data quality model					60

Link: https://www.iso.org/standard/84110.html

Scope/Abstact: This document provides mitigation techniques that can be applied throughout the AI system life cycle in order to treat unwanted bias. This document describes how to address unwanted bias in AI systems that use machine learning to conduct

Full text:

New | **STANDARD** | Standard | AI Act | Mapping | Terminology
Sort | New

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

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14971 - : 2019 | ISO

Specification: Application of risk management to medical devices

Relationship with Ai Act: Article 009-Risk management... *(Residual risk)*; Article 009-Risk management... *(Risk evaluation)*; Article 043-Conformity asse... *(Management)*; Article 001-Subject matter..., Article 073-Reporting of se..., Article 006-Classification ..., Article 007-Amendment. to ..., Article 043-Conformity asse... *(Safety)*; Article 005-Prohibited AI P... *(Market for medical or safety reasons)*

	Terms	%	Variant	Complementary	AI Act	
159	Risk management process					30
170	Management				Article 043	30
156	Risk analysis					30
158	Risk evaluation				Article 009	30
238	Risk estimation					30
154	Residual risk				Article 009	30
239	Market for medical or safety reasons				Article 005	30
214	Safety				Article 001, Article 073, Article 006, Article 007, Article 043, Article 014	30
240	Safety components of devices					30

Link: https://www.iso.org/obp/ui/en/#iso:std:iso:14971:ed-3:v1:en

Scope/Abstact: This document specifies terminology, principles and a process for risk management of medical devices, including software as a medical device and in vitro diagnostic medical devices. The process described in this document intends to assist manufacturers of

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

OPTIONAL INFORMATION
Name and Surname | Affiliation and Qualification | Linkedin ... other
Observations

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 ..., Article 020-Corrective acti... *(AI systems)*; Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... *(Lifecycle)*; Article 074-Market surveill... *(Verification and validation)*

	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, Article 020	48
282	Formal method					48
90	Evaluation					48
49	Lifecycle				Article 015, Article 017, Article 009	48

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

Scope/Abstact: 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

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.

OPTIONAL INFORMATION
Name and Surname | Affiliation and Qualification | Linkedin ... other
Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

UNI Technical Committee 533 AI
ai open mind — Hosting and developing

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

21221 -

Specification: Beneficial AI systems

ISO/IEC WD

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 ..., Article 020-Corrective acti... *(AI systems)*; Article 071-EU database fo ... *(User)*; Article 007-Amendment. to ... *(Use-cases)*; Article 007-Amendment. to ... *(Benefit)*; Article 007-Amendment. to ... *(Beneficial)*

	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, Article 020	55
258	Use-cases				Article 007	55
124	User				Article 071	55

Link: [ ]

Scope/Abstact: 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

Full text: [ ]

OPTIONAL INFORMATION

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

Observations:

22443 -

Specification: Guidance on addressing sociatal concerns and ethical considerations

ISO/IEC AWI TS

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 ..., Article 020-Corrective acti... *(AI systems)*; Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... *(Lifecycle)*

	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, Article 020	50

Link: https://www.iso.org/standard/87119.html [ ]

Scope/Abstact: 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

Full text: ISO/IEC AWI TS 22443 Information technology — Artificial intelligence — Guidance on addressing societal concerns and ethical considerations Under development [ ]

OPTIONAL INFORMATION

Name and Surname: | Affiliation and Qualification: | Linkedin ... other

Observations:

New

STANDARD

Standard | AI Act | Mapping | Terminology

Sort | New

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

UNI — Technical Committee 533 AI

ai openmind — Hosting and developing

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)*

	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 machnine 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

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

Scope/Abstact: 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.

Full text: Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION

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

Observations:

22989 - **2** : ISO/IEC AWI

Specification: Part 2: HealthcareThis

Relationship with Ai Act:

	Terms	%	Variant	Complementary	AI Act	
297	Healthcare					54

Link:

Scope/Abstact: This document estabilishes terminology for AI and describes concepts in the fields of AI for healthcare.

Full text:

OPTIONAL INFORMATION

Name and Surname: | Affiliation and Qualification: | Linkedin ... other:

Observations:

New | **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

UNI — Technical Committee 533 AI

aiopenmind — Hosting and developing

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

23894 - : 2023 ISO/IEC

Specification: Guidance on risk management

Relationship with Ai Act: Article 010-Data and data g..., Article 017-Quality managem... (Design); Article 017-Quality managem... (Leadership); Article 017-Quality managem..., Article 009-Risk management..., Article 012-Record keeping..., Article 006-Classification ..., Article 007-Amendment. to ... (Risk management); Article 006-Classification ... (Products)

Terms	%	Variant	Complementary	AI Act	
101 Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	24
86 Leadership				Article 017	24
34 Design				Article 010, Article 017	24
90 Evaluation					24
91 Improvement					24
160 Risk treatment					24
112 Monitoring					24
235 Processes					24
236 Products				Article 006	24

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:23894:ed-1:v1:en

Scope/Abstact: This document provides guidance on how organizations that develop, produce, deploy or use products, systems and services that utilize artificial intelligence (AI) can manage risk specifically related to AI. The guidance also aims to assist organizations

Full text: Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname: Domenico Natale | Affiliation and Qualification: UNI CT 533 (member) | Linkedin: https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it

Observations:

24027 - : 2021 ISO/IEC TR

Specification: Bias in AI systems and AI aided decision making

Relationship with Ai Act: Article 010-Data and data g..., Article 017-Quality managem... (Design); Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... (Lifecycle)

Terms	%	Variant	Complementary	AI Act	
51 Functional correctness					13
16 Characteristics of the data sets may be met at the level of individual data sets or combination					13
14 Bias					13
106 Data bias					13
34 Design				Article 010, Article 017	13
49 Lifecycle				Article 015, Article 017, Article 009	13
107 Software testing					13
108 Social responsibility					13

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:24027:ed-1:v1:en

Scope/Abstact: This document addresses bias in relation to AI systems, especially with regards to AI-aided decision-making. Measurement techniques and methods for assessing bias are described, with the aim to address and treat bias-related vulnerabilities.

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

OPTIONAL INFORMATION
Name and Surname: Domenico Natale | Affiliation and Qualification: UNI CT 533 (member) | Linkedin: https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it

Observations:

24028 - : 2020 | ISO/IEC TR

Specification: Overview of trustworthiness in AI

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 ..., Article 020-Corrective acti... *(AI systems);* Article 010-Data and data g... *(Consistency);* Article 015-Accuracy, robus... *(Security);* Article 074-Market surveill..., Article 013-Transparency an... *(Validation);* Article 020-Corrective acti... *(Risk);* Article 003-Definitions..., Article 001-Subject matter... *(Artificial intelligence);* Article 060-Testing of high... *(Testing);* 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 004-AI literacy... *(Training);* Article 013-Transparency an... *(Transparency);* Article 010-Data and data g..., Article 017-Quality managem..., Article 012-Record keeping..., Article 071-EU database fo ... *(Data);* Article 007-Amendment. to ... *(Autonomy);* Article 013-Transparency an... *(Information);* Article 060-Testing of high..., Article 019-Automatically g... *(Personal data)*

	Terms	%	Variant	Complementary	AI Act	
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, Article 020	42
135	Trustworthiness					42
265	Algorithm					42
266	Autonomy				Article 007	42
25	Consistency				Article 010	42
260	Data				Article 010, Article 017, Article 012, Article 071	42
39	Efficiency					42
267	Human Factor					42
268	Information				Article 013	42
269	Machine learning					42
270	Neural network					42
271	Personal data				Article 060, Article 019	42

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:38507:ed-1:v1:en

Scope/Abstact: This document surveys topics related to trustworthiness in 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

OPTIONAL INFORMATION

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

Observations

24029 - 1 : 2021 | ISO/IEC TR

Specification: Assessment of the robustness of neural networks - Part 1 Overview

Relationship with Ai Act: Article 015-Accuracy, robus..., Article 013-Transparency an... *(Robusteness);* Article 010-Data and data g... *(Training, validation, testing datasets);* Article 003-Definitions..., Article 001-Subject matter... *(Artificial intelligence);* Article 060-Testing of high... *(Testing)*

	Terms	%	Variant	Complementary	AI Act	
194	Artificial intelligence				Article 003, Article 001	21
195	Artificial neural network					21
196	Testing				Article 060	21
18	Robustness				Article 015, Article 013	21
74	Training, validation, testing datasets				Article 010	21

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:24029:-1:ed-1:v1:en

Scope/Abstact: This document TR provides background about existing methods to assess the robustness of neural networks.

Full text: Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION

Name and Surname: | Affiliation and Qualification: | Linkedin ... other

Observations

New **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

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

UNI
Technical Committee
533 AI

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24029 - 2 : 2023 | ISO/IEC

Specification
Assessment of the robustness of neural networks - Part 2 Methodology for the use of formal methods

Relationship with Ai Act
Article 015-Accuracy, robus..., **Article 013**-Transparency an...
(Robustness)

	Terms	%	Variant	Complementary	AI Act	
197	Domain					22
198	Bounded domain					22
199	Architecture					22
200	Time series					22
18	Robustness				Article 015, Article 013	22

Link
https://www.iso.org/obp/ui/en/#iso:std:iso-iec:24029:-2:ed-1:v1:en

Scope/Abstact
This document provides methodology for the use of formal methods to assess robustness properties of neural networks. The document focuses on how to select, apply and manage formal methods to prove robustness properties.

Full text
Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname | Affiliation and Qualification | Linkedin ... other
Observations

24029 - 3 : | ISO/IEC AWI

Specification
AWI Assessment of the robustness of neural networks - Part 3 Methodology for the use of formal

Relationship with Ai Act

	Terms	%	Variant	Complementary	AI Act	

Link
https://www.iso.org/standard/86901.html

Scope/Abstact
This document AWI provides methodology for the use of statistical methods to assess robustness properties of neural networks. The document focuses on how to select, apply and manage statistical methods to assess robustness properties.

Full text
ISO/IEC AWI 24029-3
Artificial intelligence (AI) — Assessment of the robustness of neural networks
Part 3: Methodology for the use of statistical methods

OPTIONAL INFORMATION
Name and Surname | Affiliation and Qualification | Linkedin ... other
Observations

24029 - 2 : 2023 | ISO/IEC

Specification
Assessment of the robustness of neural networks - Part 2 Methodology for the use of formal methods

Relationship with Ai Act
Article 015-Accuracy, robus..., **Article 013**-Transparency an...
(Robustness)

New | **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

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

UNI — **Technical Committee 533 AI**
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24030 - : 2024 ISO/IEC TR

Specification: Use cases

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 ..., Article 020-Corrective acti... *(AI systems);* Article 003-Definitions..., Article 001-Subject matter... *(Artificial intelligence);* Article 007-Amendment. to ... *(Use-cases)*

	Terms	%	Variant	Complementary	AI Act	
258	Use-cases				Article 007	36
194	Artificial intelligence				Article 003, Article 001	36
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, Article 020	36

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:tr:24030:ed-2:v1:en

Scope/Abstact: This document TR provides a collection of representative use cases of AI applications in a variety of domains.

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

OPTIONAL INFORMATION

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

Observations

24368 - : 2022 ISO/IEC TR

Specification: Overview of ethical and societal concerns

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)*

	Terms	%	Variant	Complementary	AI Act	
249	Ethical concerns					34
250	Societal concerns					34
251	Ethical framework					34
214	Safety				Article 001, Article 073, Article 006, Article 007, Article 043, Article 014	34

Link: https://www.iso.org/standard/78507.html

Scope/Abstact: TR This document provides a high-level overview of AI ethical and societal concerns.

Full text: ISO/IEC TR 24368:2022
Information technology — Artificial intelligence — Overview of ethical and societal concerns
Published (Edition 1, 2022)

OPTIONAL INFORMATION

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

Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology | New

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Sort

UNI | Technical Committee 533 AI
ai openmind | Hosting and developing

24970 - : [ ] ISO/IEC AWI

Specification: AI system logging

Relationship with Ai Act: Article 012-Record keeping... *(Traceability)*; Article 017-Quality managem..., Article 009-Risk management..., Article 012-Record keeping..., Article 006-Classification ..., Article 007-Amendment. to ... *(Risk management)*; Article 012-Record keeping... *(Logging)*

	Terms	%	Variant	Complementary	AI Act	
245	Logging				Article 012	32
73	Traceability				Article 012	32
101	Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	32

Link: https://www.iso.org/standard/88723.html

Scope/Abstact: This document describes common capabilities, requirements and a supporting information model for logging of events in AI systems. This document is designed to be used with a risk management system.

Full text: ISO/IEC AWI 24970
Artificial intelligence — AI system logging
Under development
A working group has prepared a draft.

OPTIONAL INFORMATION

Name and Surname: Domenico Natale
Affiliation and Qualification: UNI
Linkedin ... other:

Observations:

25010 - : 2023 ISO/IEC

Specification: SQuaRE - Product quality model

Relationship with Ai Act: Article 015-Accuracy, robus... *(Security)*; 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)*

	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

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

Scope/Abstact: 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 sub-characteristics) that relate to 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...

OPTIONAL INFORMATION

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

Observations:

| New | **STANDARD** | | Standard | AI Act | Mapping | Terminology | UNI | **Technical Committee** 533 AI |
| | | | Sort | | | New | ai open mind | Hosting and developing |

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

25012 - : 2008 | ISO/IEC

Specification Data quality model

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 010**-Data and data g... *(Complete)*; **Article 017**-Quality managem... *(Compliance)*; **Article 010**-Data and data g... *(Consistency)*; **Article 012**-Record keeping... *(Traceability)*; **Article 010**-Data and data g... *(Data quality)*

	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

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

Scope/Abstact 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...

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...

OPTIONAL INFORMATION
Name and Surname Domenico Natale | **Affiliation and Qualification** UNI CT 504 | **Linkedin** ... other
Observations

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 020**-Corrective acti... *(Risk)*; **Article 071**-EU database fo ... *(User)*; **Article 004**-AI literacy... *(Experience)*; **Article 074**-Market surveill... *(Verification)*

	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				Article 020	25

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

Scope/Abstact 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 product of information...

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...

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

New | **STANDARD** | Standard | AI Act | Mapping | Terminology | UNI | Technical Committee 533 AI
Sort | | | New | | ai open mind | Hosting and developing

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

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...,
Article 017-Quality managem..., **Article 012**-Record keeping...,
Article 071-EU database fo ... *(Data)*

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

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

Scope/Abstract 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:

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

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

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)*

Terms	%	Variant	Complementary	AI Act	
35	Quality model					47
90	Evaluation					47
51	Functional correctness					47
78	Functional adaptability					47
280	Functional appropriateness					47
279	Functional completeness					47
208	Performance efficiency					47
97	Usability					47
207	Functional suitability					47
101	Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	47
250	Societal concerns					47
131	Societal risk					47

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

Scope/Abstract 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

OPTIONAL INFORMATION
Name and Surname Domenico Natale | *Affiliation and Qualification* UNI CT 504 | *Linkedin ... other*
Observations

New | **STANDARD** | Standard | AI Act | Mapping | Terminology
Sort | New

UNI | **Technical Committee 533 AI**
aiopenmind | Hosting and developing

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

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 ..., Article 020-Corrective acti... (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)

Terms	%	Variant	Complementary	AI Act	
5	Annotation			Article 010	19
35	Quality model				19
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, Article 020	19
3	AI models			Article 017	19
1	Accessibility			Article 017, Article 005, Article 071	19
95	Controllability				19
78	Functional adaptability				19
64	Terms related to AI				19
66	Security		Cybersecurity	Article 015	19
97	Usability		Interaction capability		19
98	Compatibility				19
243	Transparency			Article 013	19

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

Scope/Abstact 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

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname: Domenico Natale
Affiliation and Qualification: UNI CT 533 (member) UNI CT 504 (president)
Linkedin https://www.linkedin.com/in/domenico-natale-a9b99812/? ... other originalSubdomain=it
Observations

25059 - 1 : ISO/IEC AWI

Specification Quality model for AI systems

Relationship with Ai Act
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 ..., Article 020-Corrective acti... (AI systems); Article 009-Risk management... (Measurement); 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 002-Scope..., Article 006-Classification ... (Service)

Terms	%	Variant	Complementary	AI Act	
3	AI models			Article 017	56
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, Article 020	56
255	Service			Article 002, Article 006	56
153	Measurement		measuring	Article 009	56
90	Evaluation		evaluating		56
214	Safety			Article 001, Article 073, Article 006, Article 007, Article 043, Article 014	56
210	Interaction capability				56

Link https://www.iso.org/standard/88234.html

Scope/Abstact This document outlines quality models for AI systems and services and is an applicationspecific extension to the standards on SQuaRE. The characteristics and sub-characteristics detailed in the models provide consistent terminology for specifying,

Full text

OPTIONAL INFORMATION
Name and Surname:
Affiliation and Qualification:
Linkedin ... other
Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

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

UNI | **Technical Committee 533 AI**

ai open mind | Hosting and developing

25223 - : 2024 | ISO/IEC AWI TS

Specification
Guidance and requirements for uncertainty quantification in 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 ..., Article 020-Corrective acti... *(AI systems)*; Article 013-Transparency an... *(Transparency)*; Article 010-Data and data g..., Article 017-Quality managem..., Article 012-Record keeping..., Article 071-EU database fo ... *(Data)*

Terms	%	Variant	Complementary	AI Act	
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, Article 020	58
265	Algorithm					58
309	Statistical confidence					58
310	Conficence level					58
276	Interpretability					58
269	Machine learning					58
311	Measure					58
312	Probability measure					58
313	Random variable					58
211	Reliability					58
314	Simulatability					58
122	System					58

Link https://www.iso.org/standard/89475.html

Scope/Abstact Abstract
This document specifies general and technical guidance and requirements for the development and use of methods for the quantification of uncertainties in AI systems. This document defines fundamental

Full text

OPTIONAL INFORMATION
Name and Surname: Domenico Natale
Affiliation and Qualification: UNI CT 533
Linkedin ... other
Observations

26514 - : 2022 | ISO/IEC/IEEE

Specification
Design and development of information for users

Relationship with Ai Act
Article 010-Data and data g..., Article 017-Quality managem... *(Design)*; Article 071-EU database fo ... *(User)*; Article 013-Transparency an... *(Information)*

Terms	%	Variant	Complementary	AI Act	
34	Design				Article 010, Article 017	46
124	User				Article 071	46
268	Information				Article 013	46

Link https://www.iso.org/obp/ui/en/#iso:std:iso-iec-ieee:26514:ed-1:v1:en

Scope/Abstact This document covers the development process for designers and developers of information for users of software. It describes how to establish what information users need, how to determine the way in which that information should be presented, and how

Full text Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname: Stazi
Affiliation and Qualification: UNI TC 504
Linkedin ... other
Observations

New | **STANDARD**

Standard | AI Act | Mapping | Terminology
Sort | | | New

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

UNI | **Technical Committee 533 AI**
aiopenmind | Hosting and developing

27000 - : 2018 | ISO/IEC

Specification
Information security management system - Overview and vocabulary

Relationship with Ai Act
Article 015-Accuracy, robus... *(Measurement and method)*; Article 017-Quality managem..., Article 009-Risk management..., Article 012-Record keeping..., Article 006-Classification ..., Article 007-Amendment. to ... *(Risk management)*; Article 003-Definitions..., Article 043-Conformity asse..., Article 016-Obligations of ..., Article 018-Documentation k... *(Conformity)*; Article 009-Risk management..., Article 011-Technical docum..., Article 072-Post-market mon... *(Documented information)*; Article 008-Compliance with... *(Compliance with the requirements)*; Article 017-Quality managem... *(Management system)*; Article 009-Risk management... *(Measurement)*; Article 009-Risk management... *(Residual risk)*; Article 009-Risk management... *(Risk evaluation)*

	Terms	%	Variant	Complementary	AI Act	
137	Access control					28
138	Attack					28
139	Authentication					28
140	Authenticity					28
10	Auditability					28
105	Competence					28
23	Confidentiality					28
143	Consequence					28
144	Conformity				Article 003, Article 043, Article 016, Article 018	28
143	Consequence					28
145	Documented information				Article 009, Article 011, Article 072	28
146	Governance of information security					28

Link
https://www.iso.org/obp/ui/en/#iso:std:iso-iec:27000:ed-5:v1:en

Scope/Abstact
This document provides the overview of information security management systems (ISMS). It also provides terms and definitions commonly used in the ISMS family of standards. This document is applicable to all types and sizes of organization (e.g.

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

OPTIONAL INFORMATION
Name and Surname | Affiliation and Qualification | Linkedin ... other
Observations

29119 - 11 | : 2020 | ISO/IEC TR

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

Relationship with Ai Act
Article 015-Accuracy, robus..., 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)*

	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

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

Scope/Abstact
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

Full text
Foreword
ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION
Name and Surname | Domenico Natale | Affiliation and Qualification | UNI CT 504 | Linkedin ... other
Observations

| New | **STANDARD** | | Standard | AI Act | Mapping | | Terminology | | UNI | **Technical Committee 533 AI** |
| | | | Sort | | | | New | | | |

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

ai open mind — Hosting and developing

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)*

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

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

Scope/Abstact 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

OPTIONAL INFORMATION

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

Observations

31010 - : 2019 IEC

Specification — Risk assessment techniques

Relationship with Ai Act — Article 015-Accuracy, robus..., Article 010-Data and data g..., Article 017-Quality managem... *(Data collection processes)*

Terms	%	Variant	Complementary	AI Act	
237 Risk assessment techniques					29
79 Organization					29
112 Monitoring					29
29 Data collection processes				Article 015, Article 010, Article 017	29

Link https://www.iso.org/obp/ui/en/#iso:std:iec:31010:ed-2:v1:en,fr

Scope/Abstact Not available

Full text IEC 31010 Edition 2 .0

OPTIONAL INFORMATION

Name and Surname | Affiliation and 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)*

New

STANDARD

| Standard | AI Act | | Mapping | | Terminology |
| Sort | | | | | New |

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

UNI
Technical Committee
533 AI

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Hosting and developing

38500 - : 2024 ISO/IEC

Specification Governance of IT for the organization

Relationship with Ai Act **Article 010**-Data and data g... *(Governance)*; **Article 043**-Conformity asse... *(Management)*

Terms	%	Variant	Complementary	AI Act	
111 Governance				Article 010	40
170 Management				Article 043	40

Link https://www.iso.org/standard/81684.html

Scope/Abstact This document provides guiding principles for members of governing bodies of organizations and those that support them on the effective, efficient and acceptable use of information technology (IT) within their organizations.

Full text ISO/IEC 38500:2024
Information technology — Governance of IT for the organization
Published (Edition 3, 2024)

OPTIONAL INFORMATION

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

38507 - : 2022 ISO/IEC

Specification Governance implications of the use of AI by organizations

Relationship with Ai Act **Article 010**-Data and data g... *(Governance)*; **Article 003**-Definitions..., **Article 001**-Subject matter... *(Artificial intelligence)*; **Article 006**-Classification ... *(Decision-making)*

Terms	%	Variant	Complementary	AI Act	
111 Governance				Article 010	41
194 Artificial intelligence				Article 003, Article 001	41
79 Organization					41
256 Decision-making				Article 006	41

Link https://www.iso.org/search.html?PROD_isoorg_en%5Bquery%5D=38507

Scope/Abstact This document provides guidance for members of the governing body of an organization to enable and govern the use of Artificial Intelligence (AI), in order to ensure its effective, efficient and acceptable use within the organization.

Full text ISO/IEC 38507:2022
Information technology — Governance of IT — Governance implications of the use of artificial intelligence by organizations
Published (Edition 1, 2022)

OPTIONAL INFORMATION

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

New | **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

UNI | Technical Committee 533 AI

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

42001 - : 2023 | ISO/IEC

Specification: Management system

Relationship with Ai Act:
Article 015-Accuracy, robus... (Measurement and method); Article 010-Data and data g..., Article 017-Quality managem... (Cleaning); Article 017-Quality managem... (Leadership); Article 017-Quality managem... (Planning); Article 017-Quality managem..., Article 009-Risk management..., Article 012-Record keeping..., Article 006-Classification ..., Article 007-Amendment. to ... (Risk management); Article 010-Data and data g... (Data quality); Article 020-Corrective acti... (Risk); Article 003-Definitions..., Article 043-Conformity asse..., Article 016-Obligations of ..., Article 018-Documentation k... (Conformity); Article 009-Risk management..., Article 011-Technical docum..., Article 072-Post-market mon... (Documented information); Article 017-Quality managem... (Management system); Article 009-Risk management... (Measurement); Article 010-Data and data g..., Article 017-Quality managem..., Article 012-Record keeping..., Article 071-EU database fo ... (Data); Article 017-Quality managem... (Accountability); Article 017-Quality managem... (Data acquisition)

	Terms	%	Variant	Complementary	AI Act	
80	Cleaning				Article 010, Article 017	14
87	Planning				Article 017	14
88	Support					14
89	Operation					14
90	Evaluation					14
91	Improvement					14
92	Acquisition					14
50	Measurement and method				Article 015	14
79	Organization					14
86	Leadership				Article 017	14
101	Risk management				Article 017, Article 009, Article 012, Article 006, Article 007	14
105	Competence					14

Link: https://www.iso.org/obp/ui/en/#iso:std:iso-iec:42001:ed-1:v1:en

Scope/Abstact: This document specifies the requirements and provides guidance for establishing, implementing, maintaining and continually improving an AI (artificial intelligence) management system within the context of an organization.

Full text: Foreword ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National

OPTIONAL INFORMATION

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

Observations:

42005 - : 2024 | ISO/IEC DIS

Specification: AI system impact assessment

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 ..., Article 020-Corrective acti... (AI systems)

	Terms	%	Variant	Complementary	AI Act	
79	Organization					62
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, Article 020	62
325	Impact assessment					62

Link: https://www.iso.org/obp/ui/en/#iso:std:44545:en

Scope/Abstact: This document provides guidance for organizations performing AI system impact assessments for individuals and societies that can be affected by an AI system and its intended and foreseeable applications. It includes considerations for how and

Full text:

OPTIONAL INFORMATION

Name and Surname: | Affiliation and Qualification: | Linkedin ... other:

Observations:

New | **STANDARD**

Standard | AI Act | Mapping | Terminology

Sort | New

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

UNI | **Technical Committee 533 AI**

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42006 - : 2024 | ISO/IEC DIS

Specification
Requirements for bodies providing audit and certification of artificial intelligence management

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 ..., Article 020-Corrective acti... *(AI systems)*; Article 015-Accuracy, robus... *(Security)*; Article 003-Definitions..., Article 043-Conformity asse..., Article 016-Obligations of ..., Article 018-Documentation k... *(Conformity)*; Article 043-Conformity asse... *(Assessment)*

	Terms	%	Variant	Complementary	AI Act	
324	Auditing and certification					61
144	Conformity				Article 003, Article 043, Article 016, Article 018	61
286	Assessment				Article 043	61
66	Security				Article 015	61
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, Article 020	61

Link https://www.iso.org/standard/44546.html

Scope/Abstact This document specifies additional requirements to ISO/IEC 17021-1. The requirements contained in this document, when implemented, support the demonstration of competence, consistency and reliability by the bodies performing auditing and certification...

Full text

OPTIONAL INFORMATION

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

Observations

62304 - : 2006 | IEC

Specification
Medical device - Software life cycle processes

Relationship with Ai Act
Article 015-Accuracy, robus..., Article 017-Quality managem..., Article 009-Risk management... *(Lifecycle)*

	Terms	%	Variant	Complementary	AI Act	
49	Lifecycle				Article 015, Article 017, Article 009	53
235	Processes					53
254	Software					53

Link https://www.iso.org/obp/ui/en/#iso:std:iec:62304:ed-1:v1:en

Scope/Abstact IEC This standard defines the life cycle requirements for medical device software. The set of processes, activities, and tasks described in this standard establishes a common framework for medical device software life cycle processes.

Full text FOREWORD
1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote...

OPTIONAL INFORMATION

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

Observations

New | **STANDARD**

| Standard | AI Act | | Mapping | | Terminology |
| Sort | | | | | New |

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Technical Committee
533 AI

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82079 - **1** : 2019 | IEC/IEEE

Specification | IEC Part 1: principles and general requirements

Relationship with Ai Act | **Article 010**-Data and data g..., **Article 017**-Quality managem... *(Design);* **Article 011**-Technical docum..., **Article 043**-Conformity asse..., **Article 018**-Documentation k... *(Technical documentation);* **Article 072**-Post-market mon..., **Article 016**-Obligations of ..., **Article 019**-Automatically g... *(Documentation)*

Terms	%	Variant	Complementary	AI Act	
247 Documentation				Article 072, Article 016, Article 019	33
34 Design				Article 010, Article 017	33
248 Information quality					33
247 Documentation				Article 072, Article 016, Article 019	33
246 Technical documentation				Article 011, Article 043, Article 018	33

Link | https://www.iso.org/obp/ui/en/#iso:std:iec-ieee:82079:-1:ed-2:v1:en,fr

Scope/Abstact | ISO/IEEE 82079-1 provides general principles and detailed requirements for the design and formulaltion of all type of instruction for use that will be necessary or heplful for users of products

Full text | Preparation of information for use (instructions for use) of products
–
Part 1: Principles and general requirements

OPTIONAL INFORMATION

Name and Surname | | Affiliation and UNI Qualification | | Linkedin ... other |

Observations |