New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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

UNINFO UNI Technical Committee 533 AI

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ID 45 **4213 - **

Specification: Assessment of Machine learning classification performance

Relationship with Ai Act: Article 006 *(Classification)*

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.

	Terms	Variant	Complementary	AI Act	
269	Machine learning				45
253	Classification			Article 006	45

OPTIONAL INFORMATION

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

Observations

ID 15 **5259 - 1**

Specification: Overview, terminology and examplse

Relationship with Ai Act: Article 015, Article 010 *(Data collection processes)*; Article 017 *(Data life cycle)*; Article 010 *(Data quality)*; Article 009 *(Measurement)*

Link: https://www.iso.org/search.html?PROD_isoorg_en%5Bquery%5D=5259-1

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).

	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	Analitics				15
165	Data quality management				15
166	Data governance				15
167	Data provenance				15

OPTIONAL INFORMATION

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Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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ID 3 **5259 - 2**

Specification: Data quality measures

Relationship with Ai Act: **Article 017, Article 005** *(Accessibility)*; **Article 015** *(Accuracy)*; **Article 015, Article 010, Article 017** *(Bias detection and correction)*; **Article 017** *(Compliance)*; **Article 017** *(Data holder)*; **Article 017** *(Identifiability)*; **Article 010** *(Consistency)*; **Article 015** *(Data quality reporting)*; **Article 015, Article 010** *(Origin of data)*; **Article 010** *(Quality criteria)*; **Article 012** *(Traceability)*; **Article 010** *(Training, validation, testing datasets)*

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.

	Terms	Variant	Complementary	AI Act	
21	Compliance	complete		**Article 017**	3
1	Accessibility	access		**Article 017, Article 005**	3
22	Data holder	identifiability		**Article 017**	3
25	Consistency			**Article 010**	3
11	Balance				3
20	Completeness				3
63	Resilience regarding errors, faults,	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		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
69	Synthetic or anonymised data		complementary		3
37	Documentation of the access, to avoid misuse		complementary		3

OPTIONAL INFORMATION

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Observations:

ID 16 **5259 - 3**

Specification: Data quality management requirements and guidelines

Relationship with Ai Act: **Article 017, Article 009, Article 012, Article 006, Article 007** *(Risk management)*; **Article 043** *(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 the requirements in this document.
The requirements and recommendations set out in this document are generic and are intended to be applicable to all organizations, regardless of type, size or nature.

	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

OPTIONAL INFORMATION

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Observations:

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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ID 17 **5259 - 4**

Specification Data quality process framework

Relationship with **Ai Act** **Article 017** *(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;
— unsupervised ML;
— semi-supervised ML;
— reinforcement learning;
— analytics.
This document is applicable to training and evaluation data that come from different sources, including data acquisition and data composition, data preparation, data labelling, evaluation and data use. This document does not define specific services, platforms or tools.

	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 decommisionig				17

OPTIONAL INFORMATION

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Observations

ID 18 **5259 - 5**

Specification Data quality governance framework

Relationship with **Ai Act** **Article 010** *(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 requirements or process requirements according to ISO/IEC 5259-3 and ISO/IEC 5259-4 respectively.

	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				18

OPTIONAL INFORMATION

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Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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ID 20 **5338** -

Specification: AI System life cycle process

Relationship with Ai Act: **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(AI systems)*; **Article 015, Article 017, Article 009** *(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 stages. These processes can also be used within an organization or a project when developing or acquiring AI systems. When an element of an AI system is traditional software or a traditional system, the software life cycle processes in ISO/IEC/IEEE 12207 and the system life cycle processes in ISO/IEC/IEEE 15288 can be used to implement that element.

	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	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:

ID 52 **5339** -

Specification: Guidance for AI application

Relationship with Ai Act: **Article 015, Article 017, Article 009** *(Lifecycle)*

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.

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

OPTIONAL INFORMATION

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

Observations:

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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

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ID 31 **5469** -

Specification TR Functional safety and AI systems

Relationship with **Ai Act** **Article 001, Article 073, Article 006, Article 007, Article 043** *(Safety)*

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.

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

OPTIONAL INFORMATION

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

Observations

ID 43 **6254** -

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

Relationship with **Ai Act** **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(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.

	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	43

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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ID 39 **8000 - 1**

Specification Overviw

Relationship with **Ai Act** **Article 010** *(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

	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

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

Observations

ID 11 **8183 -**

Specification Data life cycle

Relationship with **Ai Act** **Article 017** *(Data life cycle);* **Article 010** *(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.

	Terms	*Variant*	*Complementary*	*AI Act*	
31	Data processed are secured, protected,				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				11
111	Governance			**Article 010**	11

OPTIONAL INFORMATION

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Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

UNINFO UNI Technical Committee 533 AI

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ID 44 **8200** -

Specification: Controllability of automated AI systems

Relationship with Ai Act: Article 007 *(Autonomy)*

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 for 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.

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

OPTIONAL INFORMATION

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

Observations

ID 51 **9868** -

Specification: Biometric identification systems involving passive capture

Relationship with Ai Act: Article 015 *(Security)*; Article 043 *(Management)*; Article 003, Article 005 *(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 passive capture of subjects where some capture subjects enrolled voluntarily.
Biometric verification systems and biometric identification systems only involving capture subjects deliberately taking part in the capture are not in scope of this document.
This document does not define specific services, platforms or tools.

	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

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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ID **35** **12182** -

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

Relationship with **Ai Act** **Article 002, Article 006** *(Service)*

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

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

	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

OPTIONAL INFORMATION

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Observations

ID **30** **14971** -

Specification Application of risk management to medical devices

Relationship with **Ai Act** **Article 009** *(Residual risk)*; **Article 009** *(Risk evaluation)*; **Article 043** *(Management)*; **Article 001, Article 073, Article 006, Article 007, Article 043** *(Safety)*; **Article 005** *(Market for medical or safety reasons)*

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

Scope 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 medical devices to identify the hazards associated with the medical device, to estimate and evaluate the associated risks, to control these risks, and to monitor the effectiveness of the controls.
The requirements of this document are applicable to all phases of the life cycle of a medical device.
The process described in this document applies to risks associated with a medical device, such as risks related to biocompatibility, data and systems security, electricity, moving parts, radiation, and usability.
The process described in this document can also be applied to products that are not necessarily medical devices in some jurisdictions and can also be used by others involved in the medical device life cycle.

	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**	30
240	Safety components of devices				30

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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UNINFO UNI Technical Committee 533 AI

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ID 48 **17847** -

Specification Verification and validation Analysis of AI systems

Relationship with **Ai Act** **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(AI systems)*; **Article 015, Article 017, Article 009** *(Lifecycle)*

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 stages described in ISO/IEC 22989.

	Terms	*Variant*	*Complementary*	*AI Act*	
110	Verification and validation				48
235	Processes				48
4	AI systems			Article 003, Article 002, Article 004, Article 006, Article 007, Article 043	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

ID 50 **22443** -

Specification Guidance on addressing sociatal concerns and ethical considerations

Relationship with **Ai Act** **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(AI systems)*; **Article 015, Article 017, Article 009** *(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.

	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	50

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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ID 26 **22989** -

Specification: Artificial intelligence concepts and terminology

Relationship with Ai Act: **Article 015** *(Data quality reporting)*; **Article 003, Article 001** *(Artificial intelligence)*; **Article 015** *(Cybersecurity)*; **Article 004** *(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).

	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	26
231	Knowledge			Article 004	26
76	Validation				26

OPTIONAL INFORMATION

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Observations:

ID 24 **23894** -

Specification: Guidance on risk management

Relationship with Ai Act: **Article 010, Article 017** *(Design)*; **Article 017** *(Leadership)*; **Article 017, Article 009, Article 012, Article 006, Article 007** *(Risk management)*; **Article 006** *(Products)*

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

Scope: 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 to integrate risk management into their AI-related activities and functions. It moreover describes processes for the effective implementation and integration of AI risk management.
The application of this guidance can be customized to any organization and its context.

	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

OPTIONAL INFORMATION

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Observations:

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

UNINFO UNI Technical Committee 533 AI

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

ID 13 **24027** -

Specification: Bias in AI systems and AI aided decision making

Relationship with Ai Act: **Article 010**, **Article 017** *(Design)*; **Article 015**, **Article 017**, **Article 009** *(Lifecycle)*

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

Scope: 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. All AI system lifecycle phases are in scope, including but not limited to data collection, training, continual learning, design, testing, evaluation and use.

	Terms	Variant	Complementary	AI Act	
51	Functional correctness				13
16	Characteristics of the data sets may be met at				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

OPTIONAL INFORMATION

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Observations:

ID 42 **24028** -

Specification: Overview of trustworhiness in AI

Relationship with Ai Act: **Article 003**, **Article 002**, **Article 004**, **Article 006**, **Article 007**, **Article 043** *(AI systems)*; **Article 010** *(Consistency)*; **Article 015** *(Security)*; **Article 003**, **Article 001** *(Artificial intelligence)*; **Article 060** *(Testing)*; **Article 001**, **Article 073**, **Article 006**, **Article 007**, **Article 043** *(Safety)*; **Article 004** *(Training)*; **Article 007** *(Autonomy)*; **Article 060** *(Personal data)*

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

Scope: This document surveys topics related to trustworthiness in AI systems

	Terms	Variant	Complementary	AI Act	
4	AI systems			**Article 003, Article 002, Article 004, Article 006, Article 007, Article 043**	42
135	Trustworthiness				42
265	Algorithm				42
266	Autonomy			**Article 007**	42
25	Consistency			**Article 010**	42
260	Data				42
39	Efficiency				42
267	Human Factor				42
268	Information				42
269	Machine learning				42
270	Neural network				42
271	Personal data			**Article 060**	42
274	Robot				42
119	Risk				42
214	Safety			**Article 001, Article 073, Article 006, Article 007, Article 043**	42
66	Security			**Article 015**	42
113	Stakeholder				42
233	Training			**Article 004**	42
76	Validation				42
194	Artificial intelligence			**Article 003, Article 001**	42

OPTIONAL INFORMATION

Name and Surname: natale | Affiliation and Qualification: CT 533 | Linkedin ... other:

Observations:

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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

UNINFO UNI Technical Committee 533 AI

aiopenmind Hosting and developing

ID 21 **24029 - 1**

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

Relationship with Ai Act: **Article 015** *(Robusteness)*; **Article 010** *(Training, validation, testing datasets)*; **Article 003**, **Article 001** *(Artificial intelligence)*; **Article 060** *(Testing)*

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

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

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

OPTIONAL INFORMATION

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

Observations

ID 22 **24029 - 2**

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

Relationship with Ai Act: **Article 015** *(Robusteness)*

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

Scope: 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.

	Terms	Variant	Complementary	AI Act	
197	Domain				22
198	Bounded domain				22
199	Architecture				22
200	Time series				22
18	Robusteness			**Article 015**	22

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

UNINFO UNI Technical Committee 533 AI

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ID 23 **24029 - 3**

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

Relationship with Ai Act:

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

Scope: 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.

AWI is not fully considered

Terms	*Variant*	*Complementary*	*AI Act*

OPTIONAL INFORMATION

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

Observations

ID 36 **24030 -**

Specification: Use cases

Relationship with Ai Act: **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(AI systems)*; **Article 003, Article 001** *(Artificial intelligence)*; **Article 007** *(Use-cases)*

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

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

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**	36

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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UNINFO UNI
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ID **34** **24368** -

Specification Overview of ethical and societal concerns

Relationship with **Ai Act** **Article 001, Article 073, Article 006, Article 007, Article 043** *(Safety)*

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

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

	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**	34

OPTIONAL INFORMATION

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

Observations

ID **32** **24970** -

Specification AI system logging

Relationship with **Ai Act** **Article 012** *(Traceability)*; **Article 017, Article 009, Article 012, Article 006, Article 007** *(Risk management)*; **Article 012** *(Logging)*

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

Scope 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.

	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

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | AI Act | Mapping | Terminology

Number

UNINFO uni Technical Committee 533 AI

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

ID **27** | **25010** -

Specification SQuaRE - Product quality model

Relationship with **Ai Act** **Article 015** *(Security)*; **Article 001, Article 073, Article 006, Article 007, Article 043** *(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.
NOTE 1 In this document, a product refers to an ICT product that is part of an information system. ICT product components include subsystems, software, firmware, hardware, data, communication infrastructure, and other elements that are part of the ICT product.
This model can be used for requirements specification and evaluation of the target products' quality throughout their lifecycle by several stakeholders, including developers, acquirers, quality assurance and control staff and independent evaluators.

	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	27

OPTIONAL INFORMATION

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

Observations

ID **38** | **25012** -

Specification Data quality model

Relationship with **Ai Act** **Article 017, Article 005** *(Accessibility)*; **Article 015** *(Accuracy)*; **Article 017** *(Compliance)*; **Article 010** *(Consistency)*; **Article 012** *(Traceability)*; **Article 010** *(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.

	Terms	Variant	Complementary	AI Act	
2	Accuracy			Article 015	38
20	Completeness				38
27	Currentness				38
21	Compliance			Article 017	38
26	Credibility				38
1	Accessibility			Article 017, Article 005	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: | Affiliation and Qualification: | Linkedin ... other:

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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

UNINFO UNI Technical Committee 533 AI

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ID 25 **25019** -

Specification Quality-in-use model

Relationship with Ai Act **Article 017, Article 005** *(Accessibility)*; **Article 017** *(Compliance)*; **Article 017** *(Post-market)*; **Article 010** *(Data quality)*; **Article 004** *(Experience)*

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 characteristics for specifying, measuring, evaluating and improving quality-in-use.
In this document, because context of use is specified as prerequisite of quality-in-use, context of use is necessary to be re-specified to change prerequisite when a product or service intend to fulfil to context of use changes.

	Terms	Variant	Complementary	AI Act	
100	Post-market			**Article 017**	25
112	Monitoring				25
113	Stakeholder				25
90	Evaluation				25
1	Accessibility			**Article 017, Article 005**	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				25
126	Beneficialness				25
128	Freedom from risk				25

OPTIONAL INFORMATION

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

Observations

ID 2 **25024** -

Specification Measurement of data quality

Relationship with Ai Act **Article 017, Article 005** *(Accessibility)*; **Article 015** *(Accuracy)*; **Article 017** *(Compliance)*; **Article 010** *(Consistency)*; **Article 015** *(Measurement and method)*; **Article 010** *(Quality criteria)*; **Article 012** *(Traceability)*; **Article 010** *(Training, validation, testing datasets)*

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 measures;
— a guidance for organizations defining their own measures for data quality requirements and evaluation.
It includes, as informative annexes, a synoptic table of quality measure elements defined in this International standard (Annex A), a table of quality measures associated to each quality measure element and target entitiy (Annex B), considerations about specific quality measure elements (Annex C), a list of quality measures in alphabetic order (Annex D), and a table of quality measures grouped by characteristics and target entities (Annex E).
This International Standard does not define ranges

	Terms	Variant	Complementary	AI Act	
2	Accuracy	free of errors		**Article 015**	2
21	Compliance	complete		**Article 017**	2
1	Accessibility	access		**Article 017, Article 005**	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		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
73	Traceability			**Article 012**	2
20	Completeness				2

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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UNINFO UNI
Technical Committee 533 AI
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ID **47** **25058** -

Specification Guidance for quality evaluation of AI systems

Relationship with **Ai Act** **Article 017, Article 009, Article 012, Article 006, Article 007** *(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.

	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
132	Health risk				47
130	Environmental risk				47
129	Economic risk				47
281	Satisfaction				47

OPTIONAL INFORMATION

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

Observations

ID **19** **25059** -

Specification Quality model for AI System

Relationship with **Ai Act** **Article 017, Article 005** *(Accessibility)*; **Article 017** *(AI models)*; **Article 003, Article 002, Article 004, Article 006, Article 007, Article 043** *(AI systems)*; **Article 010** *(Annotation)*; **Article 015** *(Security)*

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.

	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**	19
3	AI models			**Article 017**	19
1	Accessibility			**Article 017, Article 005**	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				19

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

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UNINFO UNI Technical Committee 533 AI

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ID 46 **26514** -

Specification: Design and development of information for users

Relationship with Ai Act: **Article 010, Article 017** *(Design)*

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

Scope: 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 to prepare the information and make it available. It is not limited to the design and development stage of the life cycle, but includes information on design throughout the life cycle, such as design strategy and maintaining a design.

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

OPTIONAL INFORMATION

Name and Surname: Stazi | Affiliation and Qualification: UNI TC 504 | Linkedin ... other:

Observations:

ID 28 **27000** -

Specification: Information security management system - Overview and vocabulary

Relationship with Ai Act: **Article 015** *(Measurement and method)*; **Article 017, Article 009, Article 012, Article 006, Article 007** *(Risk management)*; **Article 003, Article 043** *(Conformity)*; **Article 009, Article 011** *(Documented information)*; **Article 008** *(Compliance with the requirements)*; **Article 009** *(Measurement)*; **Article 009** *(Residual risk)*; **Article 009** *(Risk evaluation)*

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

Scope: 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. commercial enterprises, government agencies, not-for-profit organizations). The terms and definitions provided in this document
— cover commonly used terms and definitions in the ISMS family of standards;
— do not cover all terms and definitions applied within the ISMS family of standards; and
— do not limit the ISMS family of standards in defining new terms for use.

	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**	28
143	Consequence				28
145	Documented information			**Article 009, Article 011**	28
146	Governance of information security				28
148	Governing body				28
91	Improvement				28
117	Information system				28
79	Organization				28
150	Internal context				28
151	Level of risk				28
152	Management system				28
153	Measurement			**Article 009**	28

OPTIONAL INFORMATION

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

Observations:

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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UNINFO UNI
Technical Committee 533 AI
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ID **49** **29119 - 11**

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

Relationship with **Ai Act** **Article 015** *(Accuracy)*; **Article 060** *(Testing)*; **Article 007** *(Autonomy)*; **Article 043** *(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 -4) applicable for AI systems in the context of the AI system life cycle model stages defined in ISO/IEC 22989. It describes how AI and ML assessment metrics can be used in the context of those testing techniques. It also maps testing processes, including those described in ISO/IEC/IEEE 29119-2, to the verification and validation stages in the AI system life cycle.

	Terms	*Variant*	*Complementary*	*AI Act*	
2	Accuracy			**Article 015**	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				49
196	Testing			**Article 060**	49
286	Assessment			**Article 043**	49

OPTIONAL INFORMATION

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

Observations

ID **37** **31000 -**

Specification Guidelines

Relationship with **Ai Act** **Article 017, Article 009, Article 012, Article 006, Article 007** *(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.

	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 Qualification | Linkedin ... other

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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UNINFO UNI
Technical Committee 533 AI
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ID 29 **31010** -

Specification Risk assessment techniques

Relationship with **Ai Act** **Article 015, Article 010** *(Data collection processes)*

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

Scope Not available

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

OPTIONAL INFORMATION

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

Observations

ID 40 **38500** -

Specification Governance of IT for the organization

Relationship with **Ai Act** **Article 010** *(Governance)*; **Article 043** *(Management)*

Link https://www.iso.org/search.html?PROD_isoorg_en%5Bquery%5D=38500

Scope 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.

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

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard Number | AI Act | Mapping | Terminology

UNINFO UNI Technical Committee 533 AI

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ID 41 **38507** -

Specification: Governance implications of the use of AI by organizations

Relationship with Ai Act: **Article 010** *(Governance)*; **Article 003, Article 001** *(Artificial intelligence)*; **Article 006** *(Decision-making)*

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

Scope: 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.

	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

OPTIONAL INFORMATION

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

Observations

ID 14 **42001** -

Specification: Management system

Relationship with Ai Act: **Article 015** *(Measurement and method)*; **Article 010, Article 017** *(Cleaning)*; **Article 017** *(Leadership)*; **Article 017** *(Planning)*; **Article 017, Article 009, Article 012, Article 006, Article 007** *(Risk management)*

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

Scope: 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.
This document is intended for use by an organization providing or using products or services that utilize AI systems. This document is intended to help the organization develop, provide or use AI systems responsibly in pursuing its objectives and meet applicable requirements, obligations related to interested parties and expectations from them.
This document is applicable to any organization, regardless of size, type and nature, that provides or uses products or services that utilize AI systems.

	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,	14
105	Competence				14
152	Management system				14

OPTIONAL INFORMATION

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

Observations

New

STANDARD

Standard | Number | AI Act | Mapping | Terminology

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aippen mind Hosting and developing

ID 53 **62304** -

Specification Software life cycle processes

Relationship with **Ai Act** **Article 015, Article 017, Article 009** *(Lifecycle)*

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

Scope 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.

	Terms	*Variant*	*Complementary*	*AI Act*	
49	Lifecycle			**Article 015, Article 017, Article 009**	53
235	Processes				53

OPTIONAL INFORMATION

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

Observations

ID 33 **82079** - **1**

Specification IEC Part 1: principles and general requirements

Relationship with **Ai Act** **Article 010, Article 017** *(Design)*; **Article 011, Article 043** *(Technical documentation)*

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

Scope 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

	Terms	*Variant*	*Complementary*	*AI Act*	
247	Documentation				33
34	Design			**Article 010, Article 017**	33
248	Information quality				33
247	Documentation				33
246	Technical documentation			**Article 011, Article 043**	33

OPTIONAL INFORMATION

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

Observations