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5259 - 1 : 2024 ISO/IEC

Specification Overview, terminology and example

Relationship with AI Act

Article 015-Accuracy, robustness, security and resilience; Article 010-Data and data governance; Article 017-Quality management (Data collection processes); Article 017-Quality management (Data life cycle); Article 010-Data and data governance (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 Analytics					15
165 Data quality management					15
166 Data governance					15
167 Data provenance					15

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

Scope/Abstract 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)

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Observations

5259 - 2 : 2024 ISO/IEC FDIS

Specification Data quality measures

Relationship with AI Act

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

Terms	%	Variant	Complementary	AI Act	
21 Compliance		complete		Article 017	3
1 Accessibility		access		Article 017, Article 005, Article 071	3
22 Data holder		identifiability		Article 017	3
25 Consistency				Article 010	3
11 Balance					3
20 Completeness					3
63 Resilience regarding errors, faults, inconsistency		dataset			3
13 Bias detection and correction		dataset		Article 015, Article 010, Article 017	3
26 Credibility			complementary		3
75 Understandability			complementary		3
27 Currentness			complementary		3
76 Validation			complementary	Article 074, Article 013	3

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

Scope/Abstract 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

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Observations

New

STANDARD

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Mapping

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: 2024

ISO/IEC

Terms % Variant Complementary AI Act

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)

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/Abstract 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

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Observations

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: 2024

ISO/IEC

Terms % Variant Complementary AI Act

Specification

Data quality process framework

Relationship with AI Act

Article 017-Quality managem... (Data life cycle); Article 017-Quality managem... (Data labelling)

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 decommissioning				17

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

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Observations

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5259 - 5 : 2024 ISO/IEC FDIS

Terms % Variant Complementary AI Act

Specification

Data quality governance framework

Relationship with AI Act

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

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

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

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Observations

5259 - 6 : 2024 CD TR

Terms % Variant Complementary AI Act

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)

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/Abstract Full text

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5338

: 2023

ISO/IEC

Terms % Variant Complementary AI Act

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

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Observations

5339

: 2024

ISO/IEC

Terms % Variant Complementary AI Act

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

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Observations

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Mapping

Terminology

Sort

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5469

: 2024 ISO/IEC TR

Terms % Variant Complementary AI Act

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/Abstract 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

Terms % Variant Complementary AI Act

Specification

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

Relationship with AI Act

Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification ..., Article 007-Amendment. to ..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database to ..., Article 013-Transparency an..., Article 016-Obligations of ..., Article 020-Corrective act... (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/Abstract 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

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Name and Surname Affiliation and Qualification LinkedIn ... other

Observations

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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/Abstract 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

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Observations

8183 - : 2023 ISO/IEC

Specification

Data life cycle framework

Relationship with AI Act

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

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

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

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8200

2024 ISO/IEC TS

Terms % Variant Complementary AI Act

Specification

Controllability of automated artificial 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/Abstract 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

Terms % Variant Complementary AI Act

Specification

Biometric identification systems involving passive capture

Relationship with AI Act

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

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/Abstract 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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Name and Surname Affiliation and Qualification LinkedIn ... other
 Observations

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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/Abstract 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

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 Observations:

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/Abstract 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

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 Observations:

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STANDARD

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AI Act

Mapping

Terminology

Sort

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14971

: 2019 ISO

Terms % Variant Complementary AI Act

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...; Article 014-Human oversight... (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/Abstract 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

Terms % Variant Complementary AI Act

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 to ...; Article 013-Transparency an...; Article 016-Obligations of ...; Article 020-Corrective act... (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 001, 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/Abstract 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

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AI Act

Mapping

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21221 - : ISO/IEC WD

Specification

Beneficial AI systems

Relationship with AI Act

Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of..., Article 020-Corrective act... (AI systems); Article 071-EU database to... (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/Abstract

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



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Observations

22443 - : ISO/IEC AWI TS

Specification

Guidance on addressing societal concerns and ethical considerations

Relationship with AI Act

Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of..., Article 020-Corrective act... (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/Abstract

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

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

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23894

: 2023 ISO/IEC

Terms % Variant Complementary AI Act

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 012-Quality managem..., Article 009-Risk management..., 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/Abstract 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

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Observations

24027

: 2021 ISO/IEC TR

Terms % Variant Complementary AI Act

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/Abstract 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 UNI CT 533 (member) Qualification LinkedIn <https://www.linkedin.com/in/domenico-natale-a9b99812/?...> other originalSubdomain=it

Observations

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

24028

2020 ISO/IEC TR

Terms % Variant Complementary AI Act

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 act..., (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 act..., (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/Abstract 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 UNI CT 533 Qualification LinkedIn ... other

Observations

24029

1 2021 ISO/IEC TR

Terms % Variant Complementary AI Act

Specification

Assessment of the robustness of neural networks - Part 1 Overview

Relationship with AI Act

Article 015-Accuracy, robus..., Article 013-Transparency an..., (Robustness); 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/Abstract 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.

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/Abstract 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/Abstract 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

New

STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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

24030

: 2024

ISO/IEC TR

Terms % Variant Complementary AI Act

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 act... (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 005, 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/Abstract 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

OPTIONAL INFORMATION

Name and Surname Affiliation and Qualification LinkedIn ... other

Observations

24368

: 2022

ISO/IEC TR

Terms % Variant Complementary AI Act

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/Abstract 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 UNI CT 533 Qualification LinkedIn ... other

Observations

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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/Abstract 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

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 UNI CT 504 Qualification: 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/Abstract 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

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 UNI CT 504 (president) Qualification: LinkedIn: iso25000.it ... other

Observations:

New

STANDARD

Standard

AI Act

Mapping

Terminology

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 management... Article 005-Prohibited AI P...
 Article 071-EU database for ... (Accessibility); Article 015-Accuracy, robustness... Article 013-Transparency and... (Accuracy);
 Article 017-Quality management... (Compliance); Article 010-Data and data quality... (Consistency); Article 015-Accuracy, robustness... (Measurement and method); Article 010-Data and data quality... (Quality criteria); Article 012-Record keeping... (Traceability);
 Article 010-Data and data quality... (Training, validation, testing datasets); Article 074-Market surveillance... Article 013-Transparency and... (Validation); Article 010-Data and data quality... Article 017-Quality management... Article 012-Record keeping... Article 071-EU database for ... (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 UNI CT 504 (president) Qualification: LinkedIn: iso25000.it ... other

Observations

25058

: 2024 ISO/IEC TS

Specification

Guidance for quality evaluation of AI systems

Relationship with AI Act

Article 017-Quality management... 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 006, 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 UNI CT 504 Qualification: LinkedIn: ... other

Observations

New

STANDARD

Standard

AI Act

Mapping

Terminology

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

25059

2023

ISO/IEC

Terms % Variant Complementary AI Act

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/Abstract 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 UNI CT 533 (member) Qualification UNI CT 504 (president) LinkedIn [https://www.linkedin.com/in/domenico-natale-a9b99812/?... other originalSubdomain=it](https://www.linkedin.com/in/domenico-natale-a9b99812/?...)

Observations

25059

1

ISO/IEC AWI

Terms % Variant Complementary AI Act

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/Abstract 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

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25223

2024 ISO/IEC AWI TS

Terms % Variant Complementary AI Act

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 act... (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
265 Algorithm				58
309 Statistical confidence				58
310 Confidence 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/Abstract 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 UNI CT 533 Qualification: LinkedIn: ... other

Observations:

26514

2022 ISO/IEC/IEEE

Terms % Variant Complementary AI Act

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
124 User				Article 071
268 Information				Article 013

Link <https://www.iso.org/obp/ui/en/#iso:std:iso-iec-ieee:26514:ed-1:v1:en> Scope/Abstract 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 UNI TC 504 Qualification: LinkedIn: ... other

Observations:

New

STANDARD

Standard

AI Act

Mapping

Terminology

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

27000

: 2018 ISO/IEC

Terms % Variant Complementary AI Act

Specification Information security management system - Overview and vocabulary

Relationship with AI Act

Article 015-Accuracy, robustness, resilience and fault tolerance (Measurement and method); Article 017-Quality management...; Article 009-Risk management...; Article 012-Record keeping...; Article 006-Classification...; Article 007-Amendment to... (Risk management); Article 003-Definitions...; Article 043-Conformity assessment...; Article 016-Obligations of...; Article 018-Documentation keeping... (Conformity); Article 009-Risk management...; Article 011-Technical documentation...; Article 072-Post-market monitoring... (Documented information); Article 008-Compliance with... (Compliance with the requirements); Article 017-Quality management... (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/Abstract 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

Terms % Variant Complementary AI Act

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

Relationship with AI Act

Article 015-Accuracy, robustness, resilience and fault tolerance (Measurement and method); Article 013-Transparency and explainability (Accuracy); Article 060-Testing of high-risk AI systems (Testing); Article 007-Amendment to... (Autonomy); Article 013-Transparency and explainability (Metrics); Article 043-Conformity assessment... (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/Abstract 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

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

42001

2023

ISO/IEC

Terms % Variant Complementary AI Act

Specification

Management system

Relationship with AI Act

Article 015-Accuracy, robustness, security and resilience (Measurement and method); Article 010-Data and data governance (Data quality); Article 017-Quality management (Cleaning); Article 017-Quality management (Leadership); Article 017-Quality management (Planning); Article 017-Quality management (Measurement); Article 009-Risk management (Risk management); Article 012-Record keeping (Record keeping); Article 006-Classification (Classification); Article 007-Amendment (Amendment); Article 014-Human oversight (Human oversight); Article 072-Post-market monitoring (Post-market monitoring); Article 043-Conformity assessment (Conformity assessment); Article 018-Documentation (Documentation); Article 009-Risk management (Risk management); Article 011-Technical documentation (Technical documentation); Article 072-Post-market monitoring (Post-market monitoring); Article 017-Quality management (Management system); Article 009-Risk management (Measurement); Article 010-Data and data governance (Data); Article 012-Record keeping (Data); Article 017-Quality management (Accountability); Article 017-Quality management (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/Abstract 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 UNI CT 533 (member) Qualification LinkedIn <https://www.linkedin.com/in/domenico-natale-a9b99812/?> ... other originalSubdomain=it

Observations

42005

2024

ISO/IEC DIS

Terms % Variant Complementary AI Act

Specification

AI system impact assessment

Relationship with AI Act

Article 003-Definitions (Definitions); Article 002-Scope (Scope); Article 004-AI literacy (AI literacy); Article 006-Classification (Classification); Article 007-Amendment (Amendment); Article 043-Conformity assessment (Conformity assessment); Article 014-Human oversight (Human oversight); Article 072-Post-market monitoring (Post-market monitoring); Article 074-Market surveillance (Market surveillance); Article 071-EU database for AI systems (EU database for AI systems); Article 013-Transparency (Transparency); Article 016-Obligations of AI systems (Obligations of AI systems); Article 020-Corrective action (AI systems) (Corrective action (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/Abstract 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.

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 act... (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/Abstract 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...

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/Abstract 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.

OPTIONAL INFORMATION

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

Observations: _____

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

New

STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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

82079

- 1

: 2019

IEC/IEEE

Terms

% Variant

Complementary AI Act

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

<p>Link <input type="checkbox"/></p> <p>https://www.iso.org/obp/ui/en/#iso:std:iec-ieee:82079:-1:ed-2:v1:en,fr</p>	<p>Scope/Abstract <input type="checkbox"/></p> <p>ISO/IEEE 82079-1 provides general principles and detailed requirements for the design and formulation of all type of instruction for use that will be necessary or helpful for users of products</p>	<p>Full text <input type="checkbox"/></p> <p>Preparation of information for use (instructions for use) of products Part 1: Principles and general requirements</p>
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OPTIONAL INFORMATION

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