



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

**5259** - **1** : 2024 ISO/IEC

**Specification**  
Overview, terminology and example

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

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

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

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

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

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**Observations**

**5259** - **2** : 2024 ISO/IEC FDIS

**Specification**  
Data quality measures

**Relationship with AI Act**  
Article 017-Quality management... Article 005-Prohibited AI P... Article 074-EU database for... (Accessibility); Article 015-Accuracy, robustness, resilience and security of AI systems... (Accuracy); Article 015-Accuracy, robustness, resilience and security of AI systems... (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, resilience and security of AI systems... (Data quality reporting); Article 015-Accuracy, robustness, resilience and security of AI systems... (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 explainability... (Validation); Article 013-Transparency and explainability... (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.

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

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

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**Observations**

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**5259 - 3** : 2024 ISO/IEC

**Specification** Data quality management requirements and guidelines

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

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

**Scope** This document specifies requirements and provides guidance for establishing, implementing, maintaining and continually improving the quality of data used in the areas of analytics and machine learning. This document does not define a detailed process, methods or metrics. Rather it defines the requirements and guidance for a quality management process along with a reference process and methods that can be tailored to meet

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

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

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**Observations**

**5259 - 4** : 2024 ISO/IEC

**Specification** Data quality process framework

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

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

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

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

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

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**Observations**



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**5339** - : 2024 ISO/IEC

**Specification** Guidance for AI application

**Relationship with AI Act** Article 015-Accuracy, robu... Article 017-Quality managem... Article 009-Risk management... (Lifecycle); Article 017-Quality managem... (Accountability)

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

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

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

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

**OPTIONAL INFORMATION**

Name and Surname Affiliation and Qualification LinkedIn ... other

**Observations**

**5469** - : 2024 ISO/IEC TR

**Specification** TR Functional safety and AI systems

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

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

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

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

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

**OPTIONAL INFORMATION**

Name and Surname Affiliation and Qualification LinkedIn ... other

**Observations**

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**6254** -  :  ISO/IEC CD TS

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

**Relationship with AI Act**  
Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity assessment..., Article 014-Human oversight..., Article 072-Post-market monitoring..., Article 074-Market surveillance..., Article 071-EU database for..., Article 013-Transparency and..., Article 016-Obligations of... (AI systems)

**Link**  
<https://www.iso.org/standard/82148.html>

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

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

Terms	Variant	Complementary	AI Act
244 Explainability			43
276 Interpretability			43
113 Stakeholder			43
4 AI systems			43

**OPTIONAL INFORMATION**

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

**Observations**

**8000** - **1** : 2022 ISO

**Specification**  
Part 1: Overview

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

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

**Scope**  
This document provides an overview of the ISO 8000 series

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

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

**OPTIONAL INFORMATION**

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**Observations**

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**8183** - : 2023 ISO/IEC

**Specification**  
Data life cycle framework

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

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

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

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

Terms	Variant	Complementary	AI Act
31 Data processed are secured, protected,			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

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**Observations**

**8200** - : 2024 ISO/IEC TS

**Specification**  
Controllability of automated artificial intelligence systems

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

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

**Scope**  
TS This document specifies a basic framework with principles, characteristics and approaches for the realization and enhancement 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.

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

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

**OPTIONAL INFORMATION**

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

**Observations**

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**9868** - :  ISO/IEC DIS

**Specification**  
Biometric identification systems involving passive capture

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

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

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

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

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

OPTIONAL INFORMATION

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

**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)

**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

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

Terms	Variant	Complementary	AI Act	
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

Name and Surname	Andrea Trenta	Affiliation and UNI CT 504 Qualification	Linkedin ... other
Observations			



New

# STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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**14971** - : 2019 ISO

**Specification** Application of risk management to medical devices

**Relationship with AI Act** **Article 009**-Risk management... (Residual risk); **Article 009**-Risk management... (Risk evaluation); **Article 043**-Conformity asse... (Management); **Article 001**-Subject matter...; **Article 073**-Reporting of se...; **Article 006**-Classification ...; **Article 007**-Amendment. to ...; **Article 043**-Conformity asse...; **Article 014**-Human oversight... (Safety); **Article 005**-Prohibited AI P... (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.

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

Terms	Variant	Complementary	AI Act
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

**OPTIONAL INFORMATION**

Name and Surname Affiliation and Qualification LinkedIn ... other

**Observations**

**17847** - : ISO/IEC TS

**Specification** Verification and validation analysis of AI systems

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

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

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

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

Terms	Variant	Complementary	AI Act
110 Verification and validation			Article 074 48
235 Processes			48
4 AI systems		Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072	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**

New

# STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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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 ... \(AI systems\)](#), [Article 071-EU database fo... \(User\)](#), [Article 007-Amendment to... \(Use-cases\)](#), [Article 007-Amendment to... \(Benefit\)](#), [Article 007-Amendment to... \(Beneficial\)](#)

**Link**

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

**Full text**

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

**OPTIONAL INFORMATION**

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

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

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

**Full text**

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 50

**OPTIONAL INFORMATION**

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

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

New

# STANDARD

Standard

AI Act

Mapping

Terminology

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

**22989** -  :

**Specification** Artificial intelligence concepts and terminology

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

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

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

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

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

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**Observations**

**22989** - **2** :

**Specification** Part 2: HealthcareThis

**Relationship with AI Act**

**Link**

**Scope** This document establishes terminology for AI and describes concepts in the fields of AI for healthcare.

**Full text**

Terms	Variant	Complementary	AI Act
297	Healthcare		

**OPTIONAL INFORMATION**

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

**Observations**

New

# STANDARD

Standard

AI Act

Mapping

Terminology

Sort

New

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**23894** - : 2023 ISO/IEC

**Specification** Guidance on risk management

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

**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.

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

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

**OPTIONAL INFORMATION**

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**Observations**

**24027** - : 2021 ISO/IEC TR

**Specification** Bias in AI systems and AI aided decision making

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

**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.

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

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

**OPTIONAL INFORMATION**

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**Observations**

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

**24028** - **1** : 2020 ISO/IEC TR

**Specification**  
Overview of trustworthiness in AI

**Relationship with AI Act**  
Article 003-Definitions..., Article 002-Scope..., Article 004-AI literacy..., Article 006-Classification..., Article 007-Amendment to..., Article 043-Conformity asse..., Article 014-Human oversight..., Article 072-Post-market mon..., Article 074-Market surveill..., Article 071-EU database fo..., Article 013-Transparency an..., Article 016-Obligations of... (AI systems); Article 010-Data and data g... (Consistency); Article 015-Accuracy, robus... (Security); Article 074-Market surveill..., Article 013-Transparency an... (Validation); 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 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)

**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

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

Terms	Variant	Complementary	AI Act
4 AI systems			Article 003, Article 002, Article 004, Article 006, Article 007, Article 043, Article 014, Article 072
135 Trustworthiness			
265 Algorithm			
266 Autonomy			Article 007
25 Consistency			Article 010
260 Data			Article 012, Article 071
39 Efficiency			
267 Human Factor			
268 Information			Article 013
269 Machine learning			
270 Neural network			
271 Personal data			Article 060, Article 019
274 Robot			
119 Risk			
214 Safety			Article 001, Article 073, Article 006, Article 007, Article 043, Article 014
66 Security			Article 015
113 Stakeholder			
233 Training			Article 004
76 Validation			Article 074, Article 013
194 Artificial intelligence			Article 003, Article 001

**OPTIONAL INFORMATION**

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

**Observations**

**24029** - **1** : 2021 ISO/IEC TR

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

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

**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.

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

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

**OPTIONAL INFORMATION**

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

**Observations**









New

# STANDARD

Standard

AI Act

Mapping

Terminology

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

Terms Variant Complementary AI Act

**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)

Link

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

Scope

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

Full text

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

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

### OPTIONAL INFORMATION

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Observations

Terms Variant Complementary AI Act

**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... (Compliance); Article 010-Data and data g... (Data quality); Article 071-EU database fo ... (User); Article 004-AI literacy... (Experience); Article 074-Market surveill... (Verification)

Link

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

Scope

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

Full text

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

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

### OPTIONAL INFORMATION

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Observations

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

**25024** - : 2015 ISO/IEC

**Specification**  
Measurement of data quality

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

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

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

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

Terms	Variant	Complementary	AI Act
2 Accuracy	free of errors		Article 015, Article 013
21 Compliance	complete		Article 017
1 Accessibility	access		Article 017, Article 005, Article 071
50 Measurement and method			Article 015
23 Confidentiality	personal data		
11 Balance			
26 Credibility		complementary	
25 Consistency		complementary	Article 010
27 Currentness		complementary	
76 Validation		complementary	Article 074, Article 013
40 Eliminate or reduce biased output		complementary	
57 Quality criteria		complementary	Article 010
74 Training, validation, testing datasets		complementary	Article 010
56 Precision		complementary	
60 Relevance		complementary	
50 Measurement and method			Article 015
10 Auditability			
142 Non-repudiation			
73 Traceability			Article 012
20 Completeness			

**OPTIONAL INFORMATION**

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**Observations**

**25058** - : 2024 ISO/IEC TS

**Specification**  
Guidance for quality evaluation of AI systems

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

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

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

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

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

**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** -  :

**Specification** Quality model for AI Systems

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

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

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

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

Terms	Variant	Complementary	AI Act	
5	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	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
51	Functional correctness			19
18	Robustness		Article 015, Article 013	19
303	Intervenability			19
250	Societal concerns			19
304	Ethical risk			19

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**Observations**

**25059** - **1** :  :

**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 ... (AI systems); Article 009-Risk management... (Measurement); Article 002-Scope..., Article 006-Classification ... (Service)

**Link** <https://www.iso.org/standard/88234.html>

**Scope** 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, measuring and evaluating AI system and service quality. The characteristics and sub-characteristics detailed in the models also provide a set of quality characteristics against which stated quality requirements can be compared for

**Full text**

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	56
255	Service		Article 002, Article 006	56
153	Measurement	measuring	Article 009	56
90	Evaluation	evaluating		56

**OPTIONAL INFORMATION**

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

**Observations**

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

**26514** - : 2022 ISO/IEC/IEEE

**Specification** Design and development of information for users

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

**Link** <https://www.iso.org/obp/ui/en/#iso:std:iso-iec: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.

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

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

**OPTIONAL INFORMATION**

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

**27000** - : 2018 ISO/IEC

**Specification** Information security management system - Overview and vocabulary

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

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

Terms	Variant	Complementary	AI Act
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
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

AI Act

Mapping

Terminology

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

29119 - 11 : 2020 ISO/IEC TR

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

Relationship with AI Act

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

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

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

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

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

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

### OPTIONAL INFORMATION

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

Observations

31000 - : 2018 ISO

Specification Risk management - Guidelines

Relationship with AI Act

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

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

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

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

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

### OPTIONAL INFORMATION

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

Observations

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

<b>31010</b> - : 2019 IEC		<b>Terms</b>			Variant	Complementary	AI Act	
<b>Specification</b>	Risk assessment techniques	237	Risk assessment techniques					29
<b>Relationship with AI Act</b>	Article 015-Accuracy, robus... Article 010-Data and data g... (Data collection processes)	79	Organization					29
<b>Link</b>	https://www.iso.org/obp/ui/en/#iso:std:iec:31010:ed-2:v1:en:fr	112	Monitoring					29
<b>Scope</b>	Not available	29	Data collection processes			Article 015, Article 010		29
<b>Full text</b>	IEC 31010 Edition 2.0 201							
		<b>OPTIONAL INFORMATION</b>						
		Name and Surname	Affiliation and Qualification	Linkedin ... other				
		Observations						

<b>38500</b> - : 2024 ISO/IEC		<b>Terms</b>			Variant	Complementary	AI Act	
<b>Specification</b>	Governance of IT for the organization	111	Governance			Article 010		40
<b>Relationship with AI Act</b>	Article 010-Data and data g... (Governance); Article 043-Conformity asse... (Management)	170	Management			Article 043		40
<b>Link</b>	https://www.iso.org/standard/81684.html							
<b>Scope</b>	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.							
<b>Full text</b>	ISO/IEC 38500:2024 Information technology — Governance of IT for the organization Published (Edition 3, 2024) Abstract							
		<b>OPTIONAL INFORMATION</b>						
		Name and Surname	Domenico Natale	Affiliation and UNI CT 504 Qualification	Linkedin ... other			
		Observations						



