

ISO/IEC 12792:2025-11 (E)

Information technology - Artificial intelligence (AI) - Transparency taxonomy of AI systems

Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1
- 2 Normative references..... 1
- 3 Terms and definitions..... 1
- 4 Symbols and abbreviated terms..... 4
- 5 Overview..... 4
 - 5.1 General..... 4
 - 5.2 Organization and usage of the taxonomy..... 4
 - 5.3 Constraints on transparency disclosures..... 5
 - 5.4 Concept of transparency..... 6
- 6 Stakeholders' needs and transparency objectives..... 7
 - 6.1 General..... 7
 - 6.2 Transparency objectives and goals..... 8
 - 6.3 Selected stakeholder roles in transparency..... 9
- 7 Context-level taxonomy..... 11
 - 7.1 General..... 11
 - 7.2 Societal context..... 11
 - 7.2.1 General..... 11
 - 7.2.2 Labour practices..... 14
 - 7.2.3 Consumer needs..... 15
 - 7.3 Environmental context..... 16
 - 7.3.1 General..... 16
 - 7.3.2 Particular environmental disclosures..... 17
 - 7.3.3 Organizational disclosures..... 18
- 8 System-level taxonomy..... 19
 - 8.1 General..... 19
 - 8.2 Basic information..... 19
 - 8.3 Organizational processes..... 20
 - 8.3.1 General..... 20
 - 8.3.2 Governance..... 20
 - 8.3.3 Management system..... 21
 - 8.3.4 Risk management..... 21
 - 8.3.5 Quality management..... 21
 - 8.4 Applicability..... 21
 - 8.4.1 General..... 21
 - 8.4.2 Intended purposes..... 22
 - 8.4.3 Capabilities..... 22
 - 8.4.4 Functional limitations..... 22
 - 8.4.5 Recommended uses..... 22
 - 8.4.6 Precluded uses..... 22
 - 8.5 Overview of technical characteristics..... 22
 - 8.5.1 General..... 22
 - 8.5.2 Expected inputs and outputs..... 23
 - 8.5.3 Production data..... 23
 - 8.5.4 Logging and storing..... 23
 - 8.5.5 System decomposition..... 23

8.5.6	Application programming interface	24
8.5.7	Human factors	24
8.5.8	Deployment methods	24
8.5.9	Configuration management	24
8.6	Access to internal elements	25
8.7	Quality and performance	26
8.7.1	General	26
8.7.2	Verification and validation processes	26
8.7.3	Runtime measurements	26
8.7.4	Comparison with alternative systems	27
9	Model-level taxonomy	27
9.1	General	27
9.2	Basic information	27
9.3	Usage and model interplay	28
9.3.1	Processing performed by the model	28
9.3.2	Dependence on other models	28
9.3.3	Coherence with AI system's intended purposes	28
9.4	Technical characteristics	28
9.4.1	Type of technology used	28
9.4.2	Features extracted from input data	28
9.4.3	Algorithm used for processing	28
9.4.4	Procedure for building the model	28
9.4.5	Hyperparameters	29
9.4.6	Input and output formats	30
9.4.7	Compute hardware	30
9.4.8	Computational costs	31
9.4.9	Models in evolvable systems	31
9.5	Data used	31
9.6	Functional correctness	32
10	Dataset-level taxonomy	32
10.1	General	32
10.2	Basic information	33
10.3	Data provenance	33
10.4	Data properties	35
10.5	Dataset domain and purposes	36
10.5.1	General	36
10.5.2	Language data domain details	36
10.5.3	Vision data domain details	37
10.6	Data biases and limitations	37
10.7	Societal considerations	37
10.8	Data preparation performed	38
10.9	Dataset maintenance	39
	Annex A (informative) Examples of transparency templates	40
	Annex B (informative) Examples of stakeholder roles in transparency	41
	Bibliography	43