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 evolutive 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