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Information technology — Artificial intelligence — Overview of trustworthiness in artificial intelligence

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Foreword

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Introduction

The goal of this document is to analyse the factors that can impact the trustworthiness of systems providing or using AI, called hereafter artificial intelligence (AI) systems. The document briefly surveys the existing approaches that can support or improve trustworthiness in technical systems and discusses their potential application to AI systems. The document discusses possible approaches to mitigating AI system vulnerabilities that relate to trustworthiness. The document also discusses approaches to improving the trustworthiness of AI systems.

Information technology — Artificial intelligence — Overview of trustworthiness in artificial intelligence

1 Scope

This document surveys topics related to trustworthiness in AI systems, including the following:

- approaches to establish trust in AI systems through transparency, explainability, controllability, etc.;
- engineering pitfalls and typical associated threats and risks to AI systems, along with possible mitigation techniques and methods; and
- approaches to assess and achieve availability, resiliency, reliability, accuracy, safety, security and privacy of AI systems.

The specification of levels of trustworthiness for AI systems is out of the scope of this document.

2 Normative references

There are no normative references in this document.