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Information technology — Artificial intelligence — Guidance on risk management

*Technologies de l'information — Intelligence artificielle —
Recommandations relatives au management du risque*



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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 in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 42, *Artificial intelligence*.

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Introduction

The purpose of risk management is the creation and protection of value. It improves performance, encourages innovation and supports the achievement of objectives.

This document is intended to be used in connection with ISO 31000:2018. Whenever this document extends the guidance given in ISO 31000:2018, an appropriate reference to the clauses of ISO 31000:2018 is made followed by AI-specific guidance, if applicable. To make the relationship between this document and ISO 31000:2018 more explicit, the clause structure of ISO 31000:2018 is mirrored in this document and amended by sub-clauses if needed.

This document is divided into three main parts:

[Clause 4](#): Principles – This clause describes the underlying principles of risk management. The use of AI requires specific considerations with regard to some of these principles as described in ISO 31000:2018, Clause 4.

[Clause 5](#): Framework – The purpose of the risk management framework is to assist the organization in integrating risk management into significant activities and functions. Aspects specific to the development, provisioning or offering, or use of AI systems are described in ISO 31000:2018, Clause 5.

[Clause 6](#): Processes – Risk management processes involve the systematic application of policies, procedures and practices to the activities of communicating and consulting, establishing the context, and assessing, treating, monitoring, reviewing, recording and reporting risk. A specialization of such processes to AI is described in ISO 31000:2018, Clause 6.

Common AI-related objectives and risk sources are provided in [Annex A](#) and [Annex B](#). [Annex C](#) provides an example mapping between the risk management processes and an AI system life cycle.