SA TR ISO/IEC 24027:2022
ISO/IEC TR 24027:2021

STANDARDS Australia

Technical Report

Information technology — Artificial intelligence (AI) — Bias in AI systems and AI aided decision making

SA TR ISO/IEC 24027:2022

This Australian Technical Report® was prepared by IT-043, Artificial Intelligence. It was approved on behalf of the Council of Standards Australia on 03 October 2022.

This Technical Report was published on 14 October 2022.

The following are represented on Committee IT-043:

Australian Chamber of Commerce and Industry
Australian Computer Society
Australian Healthcare and Hospitals Association
Australian Human Rights Commission
Australian Information Industry Association
Australian Institute of Company Directors
Australian Institute of Health & Safety
Australian Payments Network
Australian Securities and Investments Commission
CHOICE
Consult Australia
Consumers Federation of Australia
Data61 (CSIRO)
Ethics, AI and ADM Professional Group
NSW Data Analytics Centre
National Association of Testing Authorities Australia
Queensland AI Hub
Royal Australian and New Zealand College of Radiologists
Therapeutic Goods Administration (TGA)
University of Melbourne
University of New South Wales
University of Technology Sydney
Western Sydney University

This Technical Report was issued in draft form for comment as DR SA TR ISO/IEC 24027:2022.

ISBN 978 1 76113 938 3

SA TR ISO/IEC 24027:2022
ISO/IEC TR 24027:2021

Technical Report

Information technology — Artificial intelligence (AI) — Bias in AI systems and AI aided decision making

First published as SA TR ISO/IEC 24027:2022.

Preface

This Technical Report was prepared by the Standards Australia Committee IT-043, Artificial Intelligence.

The objective of this document is to addresses bias in relation to AI systems, especially with regards to AI-aided decision-making. In this document, the term bias is defined as a systematic difference in the treatment of certain objects, people, or groups in comparison to others, in its generic meaning beyond the context of AI or ML.

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 data collection, training, continual learning, design, testing, evaluation, and use.

This document is identical with, and has been reproduced from, ISO/IEC TR 24027:2021, *Information technology — Artificial intelligence (AI) — Bias in AI systems and AI aided decision making*.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents