BS 8611:2023



BSI Standards Publication

Robots and robotic devices – Ethical design and application of robots and robotic systems – Guide



BS 8611:2023 BRITISH STANDARD

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2023

Published by BSI Standards Limited 2023

ISBN 978 0 539 21195 5

ICS 25.040.30

The following BSI references relate to the work on this document: Committee reference AMT/10/1

Draft for comment 22/30451737 DC

Amendments/corrigenda issued since publication

Date Text affected

Conte	ontents		
	Foreword	II	
1	Scope	1	
2	Normative references	1	
3	Terms and definitions	1	
4	Ethical risks	2	
4.1	General	2	
	Table 1 — Ethical issues, hazards and risks	3	
4.2	Ethical hazard identification	8	
4.3	Ethical risk assessment	8	
4.4	Learning robots	9	
	Figure 1 — Ethical risk assessment and management process	10	
5	Ethical guidelines and measures	11	
5.1	General societal ethical guidelines	11	
5.2	Application of ethical recommendations and measures	13	
	Table 2 — Ethical design parameters	14	
5.3	Commercial/financial ethical guidelines and measures	14	
5.4	Environmental ethical guidelines, measures and sustainable development	15	
6	Ethics-related system design recommendations	15	
6.1	General principles for ethical design	15	
6.2	Protection against the perception of harm	16	
7	Verification and validation	16	
7.1	General	16	
7.2	Mitigation	17	
7.3	Suggested methods	17	
8	Information for use	19	
8.1	General	19	
8.2	Markings or indications	20	
8.3	User manual	21	
8.4	Service manual	21	
	Bibliography	22	

Summary of pages

This document comprises a front cover, an inside front cover, pages I to IV, pages 1 to 23, an inside back cover and a back cover.