INTERNATIONAL STANDARD

ISO 37168

First edition 2022-06

Smart community infrastructures — Guidance on smart transportation by Electric, Connected and Autonomous Vehicles (eCAVs) and its application to on-demand responsive passenger services with shared vehicles

Infrastructures urbaines intelligentes — Recommandations relatives au transport intelligent par véhicules électriques, connectés et autonomes et application aux services de transport de passagers à la demande avec des véhicules partagés



ISO 37168:2022(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

CO	ntents	Page
Fore	eword	iv
Intr	oduction	v
1	Scope	
1	•	
2	Normative references	1
3	Terms and definitions	1
4	Common considerations for smart transportation by autonomous buses	1
	4.1 Goals of smart transportation	1
	4.2 Basic characteristics of eCAVs	
	4.3 eCAV as integrated intelligent mobility	3
	4.3.1 General	
	4.3.2 Examples of development of autonomous technologies	
	4.3.3 Framework of four features	3
	4.4 Key considerations	
	4.4.1 General	4
	4.4.2 Role of transport authorities	4
	4.4.3 Legal and regulatory framework	4
	4.4.4 Service typology	
	4.4.5 Public engagement and the dissemination of findings	
	4.5 Applicable city issues and expected advantages	6
	4.6 Service issues and challenges	
5	Technical requirements for adoption of eCAV transportation	7
	5.1 Target operating environments	7
	5.2 Technical objectives	
	5.3 Technical prerequisites	
	5.4 Procedure to adopt smart transportation	
	5.5 Continuous oversight and governance	
6	Quality maintenance of smart transportation by autonomous buses	
U	6.1 General	
	6.2 Parameters to be observed	
		11
7	Long-term arrangements for the accommodation of smart transportation by	
	autonomous buses	12
Ann	nex A (informative) Interventions needed to make contextual features fit for eCAV	
	services	13
D¦k!	liography	14.
	HIIVI AHIIV	