ISO 17572-4:2020-04 (E)

Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 4: Precise relative location referen ces (precise relative profile)

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Abbreviated terms 2

5 Conformance 2

6 Requirements for a location referencing standard 2

7 Conceptual data model for LFMs 3
7.1 Role of conceptual model 3
7.2 Components of conceptual model 3
7.3 Description of the conceptual model 3
7.4 Location categories 3
7.5 Conceptual model of a road network 4
7.6 Conceptual model of area locations 5

8 Specification of LRs for precise relative information 5
8.1 General concept 5
8.1.1 Methods to be defined in this document 5
8.1.2 Concept of Method 1: Lane number counting 5
8.1.3 Concept of Method 2: Displacement from a reference point 6
8.2 Specification for contents delivering message 7
8.2.1 Structure of the message 7
8.2.2 Definition of the components 8
8.3 Use cases and examples of contents for location referencing messages 11

Annex A (normative) Abstract test suite 12

Annex B (informative) Basic lane model of a road 13

Annex C (informative) Use cases for Precise Relative Location Referencing Method 14

Annex D (informative) Use cases for elements of Precise Relative Location Referencing Method 17

Annex E (informative) Implementation examples of Precise Relative Location Referencing Method 25

Bibliography 28