

ISO/TR 16250:2013-07 (E)

Road vehicles - Objective rating metrics for dynamic systems

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Terms and definitions	1
3	Symbols and abbreviated terms	1
3.1	General abbreviated terms	1
3.2	General symbols and subscripts	2
3.3	CORA	2
3.4	EARTH and EEARTH	3
3.5	Model reliability metric	4
3.6	Bayesian confidence metric	5
3.7	Overall ISO rating	5
4	General requirements to the data	5
5	CORA metric	6
5.1	Corridor rating	6
5.2	Cross-correlation rating	8
5.3	Step-by-step procedure	10
6	EARTH metric	11
6.1	EARTH phase score	12
6.2	EARTH magnitude score	13
6.3	EARTH slope score	14
6.4	Overall EARTH score	15
6.5	Step-by-step procedure	15
7	Model reliability metric	16
8	Bayesian confidence metric	16
9	ISO metric	18
9.1	CORA corridor method	18
9.2	EEARTH method	18
9.3	Calculation of the overall ISO rating	23
9.4	Meaning of the objective rating score	24
10	Pre-processing of the data	24
10.1	Sampling rate	25
10.2	Filtering	25
10.3	Interval of evaluation	25
11	Limitations	26
11.1	Type of signals	26
11.2	Metrics validation	26
11.3	Meaning of the results	26
11.4	Multiple responses	27

Annex A (informative) Child restraint example	28
Annex B (informative) Sled test example	46
Annex C (informative) Case studies	51
Bibliography	65