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Space data and information transfer systems — Delta-differential one-way ranging (Delta-DOR) operations

Systèmes de transfert des données et informations spatiales — Exploitation de mesures différentielles de distance par triangulation (Delta DOR)

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Foreword

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ISO 17809 was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 506.0-M-1, April 2011) and was adopted (without modifications except those stated in Clause 2 of this International Standard) by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems*.

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Space data and information transfer systems — Delta-differential one-way ranging (Delta-DOR) operations

1 Scope

Delta Differential One-Way Ranging (Delta-DOR) operations are applicable to space agencies that operate deep space missions that require accurate determination of the spacecraft position in the plane of the sky. For operations where these requirements do not capture the needs of the participating agencies, Delta-DOR operations may not be appropriate.

This International Standard addresses rationale, requirements and criteria that Delta-DOR operations processes should be designed to meet.

2 Requirements

Requirements are the technical recommendations made in the following publication (reproduced on the following pages), which is adopted as an International Standard:

CCSDS 506.0-M-1, April 2011, Delta-Differential One Way Ranging (Delta-DOR) Operations

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 506.0-M-1.

Pages i to vi

This part is information which is relevant to the CCSDS publication only.

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Add the following information to the reference indicated:

[2] Document CCSDS 502.0-B-2, November 2009, is equivalent to ISO 26900.2012.

[3] Document CCSDS 503.0-B-1, November 2007, is equivalent to ISO 13536:2010.

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Add the following information to the reference indicated:

[D6] Document CCSDS 505.0-B-1, December 2010, is equivalent to ISO 17107:2011.

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Add the following information to the reference indicated:

[D11] Document CCSDS 301.0-B-4, November 2010, is equivalent to ISO 11104:2011.

[D12] Document CCSDS 910.11-B-1, August 2009, is equivalent to ISO 18439:2013.

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