Technical Specification

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Programming languages — Prolog —

Part 3: Definite clause grammar rules as an extension of ISO/IEC 13211-1

Langages de programmation — Prolog —

Partie 3: Règles de grammaire en clauses définies en tant qu'extension de l'ISO/IEC 13211-1

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Foreword

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Introduction

Definite clause grammar rules provide convenient functionality for parsing and processing text and structured lists in Prolog. They have been implemented in many Prolog processors.

This document extends ISO/IEC 13211–1. For convenience, it has been numbered to refer to relevant subclauses of the base standard. In particular, this document adds new subclauses to, and extends existing subclauses of ISO/IEC 13211–1.

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Programming languages — Prolog —

Part 3: Definite clause grammar rules as an extension of ISO/IEC 13211-1

1 Scope

This document promotes the applicability and portability of Prolog grammar rules in data processing systems that support standard Prolog as defined in ISO/IEC 13211–1:1995/Cor 1:2007/Cor 2:2012/Cor 3:2017 and ISO/IEC 13211–2:2000. This document specifies:

a) The representation, syntax, and constraints of Prolog grammar rules

b) A logical expansion of grammar rules into Prolog clauses

c) A set of built-in predicates for parsing with grammar rules

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 13211–1:1995, *Information technology — Programming languages — Prolog — Part 1: General core.*

ISO/IEC 13211–2:2000, *Information technology — Programming languages — Prolog — Part 2: Modules.*

ISO/IEC 13211–1:1995/Cor.1:2006, *Information technology — Programming languages — Prolog — Part 1: General core — Technical Corrigendum 1*

ISO/IEC 13211–1:1995/Cor.2:2012, *Information technology — Programming languages — Prolog — Part 1: General core — Technical Corrigendum 2*

ISO/IEC 13211–1:1995/Cor.3:2017, *Information technology — Programming languages — Prolog — Part 1: General core — Technical Corrigendum 3*

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