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Second edition
2017-03

Programming languages — C++ extensions for library fundamentals

*Langages de programmation — Extensions C++ pour la bibliothèque
fondamentaux*



Reference number
ISO/IEC TS 19568:2017(E)

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Foreword

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, Information Technology, Subcommittee SC 22, Programming languages, their environments and system software interfaces. This edition of ISO/IEC 19568:2017 cancels and replaces the edition ISO/IEC 19568:2015, which has been technically revised and includes the following changes:

- Addition of the `sample` algorithm.
- Addition of new random-number generation facilities, and algorithms which use them.
- Addition of algorithms for uniform container erasure.
- Addition of function template `not_fn`.
- Addition of logical operator type traits `conjunction`, `disjunction`, and `negation`.
- Addition of templates to support the "detection idiom".
- Addition of the `propagate_const` class template.
- Addition of the `observer_ptr` class template.
- Addition of the `make_array` and `to_array` function templates.
- Addition of the `ostream_joiner` class template.
- Addition of the `gcd` and `lcm` algorithms.
- Addition of the `source_location` struct.
- Changes to the return types of search algorithms.
- Moving all libraries to the inline namespace `fundamentals_v2`.
- Miscellaneous defect resolutions.