

Foreword

[ISO](#) (the International Organization for Standardization) and [IEC](#) (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, [ISO/IEC JTC 1](#).

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75% of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 18026 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24, *Computer graphics, image processing and environmental data representation*, in collaboration with [The SEDRIS Organization](#).

This third edition cancels and replaces the second edition (ISO/IEC 18026:2009), of which it constitutes a major revision.

ISO/IEC 18026 Edition 3 introduces new capabilities and extends and improves existing Edition 2 capabilities. The new and/or enhanced technical content includes:

- 1) Comprehensive and improved treatment of geodesics
- 2) Similarity transformation templates (STT)
- 3) Revisions to *Profiles* and *Conformance* clauses, as well as informative Annex I.6 to cover positional error measurement cases
- 4) Improved accuracy domains in the Default Profile
- 5) Incorporation of a new clause *Orientation – change of basis and rotation*
- 6) Revision to *Coordinate Systems*, *Spatial Reference Frames*, and *Operations* clauses
- 7) Other improvements throughout the standard, including editorial and self-consistency improvements, incorporation of new figures, and correction of defects.

<https://standards.iso.org/ittf/PubliclyAvailableStandards/>

