Doc No. : LITD 23 (25553) Draft IS/ISO/IEC 21145: 2023 May 2024

BUREAU OF INDIAN STANDARDS DRAFT FOR COMMENTS ONLY

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मसौदा भारतीय मानक

सूचना प्रौद्योगिकी - कंप्यूटर ग्राफिक्स, इमेज प्रसंस्करण और पर्यावरण डेटा निरूपण- मिश्रित और संवर्धित वास्तविकता के लिए स्टाइल निरूपण

Draft Indian Standard

Information Technology – Computer Graphics, Image Processing and Environmental Data Representation – Style Representation for Mixed and Augmented Reality

ICS: 35.140

LITD 23 Coding and Processing of Audio, Picture, Multimedia and Hypermedia Information Sectional Committee

Last date for comments: 9 July 2024

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard which is identical to ISO/IEC 21145: 2023 'Information technology — Computer graphics, image processing and environmental data representation — Style representation for mixed and augmented reality' issued by International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Coding and Processing of Audio, Picture, Multimedia and Hypermedia Information Sectional Committee, LITD 23 and approval of the Electronics and Information Technology Division Council.

The text of ISO/IEC Standard *may be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards, for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC 18039, Information technology — Computer graphics, image processing and environmental data representation — Mixed and augmented reality (MAR) reference model	Doc. No. LITD 23 (25592) Draft IS/ISO/IEC 18039:2019, Information technology — Computer graphics, image processing and environmental data representation — Mixed and augmented reality (MAR) reference model	Identical with ISO/IEC 18039:2019

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ISO/IEC 3721, Information	Doc. No. LITD 23 (25552)	
graphics, image processing and environmental data representation —Information model for mixed and	environmental data representation — Information model for mixed and augmented reality content — Core	Identical with ISO/IEC 3721:2023

Scope of ISO/IEC 21145: 2023 is as follows:

This document specifies:

1) Constructs for representing and specifying various augmentation and presentation styles. While augmentations can be in modalities other than the visual (e.g. aural, haptic), this work addresses the visual augmentation style only.

2) A model for how to associate the stylization constructs to the augmentation objects. Specifically, the MAR behavior object in ISO/IEC 3721 is extended for this purpose.

3) Other miscellaneous functionalities and abstractions that support the stylization of augmentation objects.

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer to ISO/IEC 21145: 2023 or kindly contact.

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