SLOVENSKI STANDARD

SIST EN ISO 12052:2011

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Nadomešča:

SIST EN 12052:2005

Zdravstvena informatika - Digitalno slikanje in komunikacije v medicini, vključno z upravljanjem poteka dela in podatkov (ISO 12052:2006)

Health informatics - Digital imaging and communication in medicine (DICOM) including workflow and data management (ISO 12052:2006)

Medizinische Informatik - Digitale Bildverarbeitung und Kommunikation in der Medizin (DICOM) inklusive Workflow und Datenmanagement(ISO 12052:2006)

Informatique de santé - Imagerie numérique et communication dans la médecine (DICOM) incluant le déroulement des opérations et la gestion des données (ISO 12052:2006)

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35.240.80	Uporabniške rešitve IT v zdravstveni tehniki	IT applications in health care technology

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 12052

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English Version

Health informatics - Digital imaging and communication in medicine (DICOM) including workflow and data management (ISO 12052:2006)

Informatique de santé - Imagerie numérique et communication dans la médecine (DICOM) incluant le déroulement des opérations et la gestion des données (ISO 12052:2006)

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This European Standard was approved by CEN on 10 March 2011.

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Foreword

The text of ISO 12052:2006 has been prepared by Technical Committee ISO/TC 215 “Health informatics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12052:2011 by Technical Committee CEN/TC 251 “Health informatics” the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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INTERNATIONAL STANDARD

ISO 12052

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Health informatics — Digital imaging and communication in medicine (DICOM) including workflow and data management

Informatique de santé — Imagerie numérique et communication dans la médecine (DICOM) incluant le déroulement des opérations et la gestion des données

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ISO 12052 was prepared by Technical Committee ISO/TC 215, *Health informatics*.

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Introduction

ACR (the American College of Radiology) and NEMA (the National Electrical Manufacturers Association) formed a joint committee in 1983 to develop a Standard for Digital Imaging and Communications in Medicine. The third release of this work received the name DICOM, for Digital Imaging and Communications in Medicine. This DICOM Standard was developed according to the NEMA Procedures in liaison with other Standardization Organizations including ISO/TC/215, CEN TC251 in Europe and JIRA in Japan, with review also by other organizations including IEEE, HL7 and ANSI in the USA. Several countries have been actively involved in the development of the DICOM Standard — in particular Canada, Germany, France, Italy, Japan, Korea, Taiwan and the United States of America. Contributions were received from more than 20 other countries. DICOM is used in most healthcare institutions worldwide where patient imaging is performed. Most imaging devices and imaging related information systems products support it.

Within health informatics, this International Standard addresses the exchange of digital images and related information between both medical imaging equipment and systems concerned with the management of that information.

This International Standard facilitates interoperability of systems claiming conformance. In particular, it:

— addresses the semantics of commands and associated data; for devices and systems to interact, there must be standards on how they are expected to behave in response to commands and associated data, not just the information which is to be moved between devices and systems;

— is explicit in defining the conformance requirements of implementations of this International Standard; in particular, a conformance statement has to specify enough information to determine the functions for which interoperability can be expected with another system claiming conformance;

— facilitates operation in a networked environment and in the area of media interchange;

— is structured to accommodate the introduction of new services, thus facilitating support for future medical imaging applications.

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Even though this International Standard has largely facilitated the implementations of Picture Archiving and Communication Systems (PACS) solutions and integrated digital imaging departments, use of this International Standard alone does not guarantee that all the goals of such solutions will be met. This International Standard facilitates interoperability of systems claiming conformance in a multi-vendor environment, but does not, by itself, guarantee interoperability.

This International Standard has been developed with an emphasis on diagnostic medical imaging as practiced in radiology, cardiology and other imaging disciplines.

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