This document contains supplemental information referenced by the European Rolling Plan for ICT Standardisation.

IEEE Standards Activities in Big Data, Data Privacy, and Open Data

Overview

New Big Data standards projects in the area of health and big data processing have been initiated.

Big Data Standards Projects*

- IEEE P1752, IEEE Draft Standard for Mobile Health Data
- IEEE P1906.1.1, IEEE Draft Standard Data Model for Nanoscale Communication Systems
- IEEE P1912,IEEE Draft Standard for Privacy and Security Architecture for Consumer Wireless Devices
- IEEE P1926.1, IEEE Draft Standard for a Functional Architecture of Distributed Energy Efficient Big Data Processing
- IEEE P2510, IEEE Draft Standard for Establishing Quality of Data Sensor Parameters in the Internet of Things Environment
- IEEE P2673, IEEE Draft Standard for Patient Digital Biomedical Data Files with 3D Topological Mapping of Macroanatomy and Microanatomy for Use in Big Data and Augmented Intelligence Systems
- IEEE P2791, IEEE Draft Standard for Bioinformatics Computations and Analyses Generated by High-Throughput Sequencing (HTS) to Facilitate Communication
- IEEE P3333.2.3, IEEE Draft Standard for Three-Dimensional (3D) Medical Data Management
- P3652.1, IEEE Draft Guide for Architectural Framework and Application of Federated Machine Learning
- IEEE P7002, IEEE Draft Standard for Data Privacy Process
- IEEE P7003, IEEE Draft STandard for Algorithmic Bias Considerations
- IEEE P7004, IEEE Draft Standard for Child and Student Data Governance
- IEEE P7005, IEEE Draft Standard for Transparent Employer Data Governance
- IEEE P7006, IEEE Draft Standard for Personal Data AI Agent

Prestandardization Industry Connections Activities*

IEEE SA also has various prestandardization activities focused on data agency, data governance, and open data under its Industry Connections platform. These programs cover broad issues of trust, governance, and interoperability, and some are sector-specific.

- IC 16-001, Industry Connections Activity Initiation Document on Open Data
- IC 16-002, Global Initiative for Ethical Considerations in the Design of

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◆IEEE

Autonomous Systems

- IC 17-002, Digital Inclusion, Identity, Trust, and Agency (DIITA)
- IC 17-006, Big Data Governance and Metadata Management (BDGMM)
- IC 19-001, Global Initiative to Standardize Fairness in the Trade of Data
- IC 19-003, MyData Health
- IC19-004, Technology and Data Harmonization for Enabling Remote Clinical Trials
- IC 19-006, Data Trading System Initiative

*Draft standards projects, once approved, are often revised and/or used as the base for new projects. The status of these projects is updated periodically. For the most up-to-date status, please see the following link: <https://standards.ieee.org/project/index.html>