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](#), Standard for Mobile Health Data
- [IEEE P1906.1.1](#), Standard Data Model for Nanoscale Communication Systems
- [IEEE P2510](#), Standard for Establishing Quality of Data Sensor Parameters in the Internet of Things Environment
- [IEEE P7002](#), Data Privacy Process
- [IEEE P7003](#), Algorithmic Bias Considerations
- [IEEE P7004](#), Standard for Child and Student Data Governance
- [IEEE P7005](#), Standard for Transparent Employer Data Governance
- [IEEE P7006](#), Standard for Personal Data AI Agent
- [IEEE P2673](#), 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 P3333.2.3](#), Standard for Three-Dimensional (3D) Medical Data Management

As part of the Industry Connections Global Initiative for Ethical Considerations in the Design of Autonomous Systems, the Committee on Individual/Personal Data Control is focusing on issues of personal information and privacy in relation to how individual data is used in regards to autonomous and artificially intelligent systems.
As an outcome, a number of new standards projects in the IEEE 7000 series have been initiated.

A new Industry Connections activity on digital inclusion is to “bring technologists, academics, and industry executives together to build consensus and develop a framework towards solutions that facilitate digital inclusion, trust, personal data agency and security for all members of the global community.”

An Industry Connections Activity on Big Data Governance and Metadata Management “will guide how big data and big data exchange is governed. It will enable consumers of big data to better understand what is available and how to access it. It will help producers of big data properly set expectations and take steps to ensure that their datasets can be maintained and shared in accordance with their wishes. It will help organizations that store big data make decisions concerning how the big data is stored, curated, exposed, and otherwise governed so as to best serve consumers and producers.”

IEEE also has a pre-standardization Industry Connections activity on Open Data. The project seeks to create a globally accepted definition, format, and structure for Open Data to enable interoperability, whereby Open Data sets from different sources can be easily combined into larger and more valuable data sets.

**Prestandardization Industry Connections Activities***

- [IC 16-001-01](#), Industry Connections Activity Initiation Document on Open Data
- [IC 16-002-01](#), Global Initiative for Ethical Considerations in the Design of Autonomous Systems
- [IC 17-002-01](#), Digital Inclusion Through Trust and Agency
- [IC 17-006-01](#), Big Data Governance and Metadata Management

*Draft standards projects, once approved, are often revised and/or used as the base for new projects, and therefore may appear in both the “active standards” and “projects under development” lists.*