AI Standards and Certification to support regulatory compliance

Dr. Ansgar Koene, Global AI Ethics and Regulatory Leader, EY
Chair of IEEE P7003 Standard for Algorithmic Bias Considerations

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Standards and Regulation

- Governments often draw on standards when crafting legislation.
- Standards establish technical detail, allowing legislation to concentrate on policy objectives.
- Standards can be one way to establish regulatory compliance.

**12+ GDPR RELATED INTERNATIONAL STANDARDS & CLOUD**

- ISO/IEC 27002
  - Information security policies
  - Organization of information security
  - Human resource security
  - Asset management
  - Access control
  - Cryptography
  - Physical and environmental security
  - Operations security
  - Communications security
  - System acquisition, development and maintenance
  - Supplier relationships
  - Information security incident management
  - Information security aspects of business continuity management
  - Compliance

- ISO/IEC 27001 PII OnPrem
- ISO/IEC 27002 Security Controls
- ISO/IEC 27005 Risk Management
- ISO/IEC 29134 Privacy Impact
- ISO/IEC 17789 Cloud Architecture
- ISO/IEC 29101 Privacy by Design
- ISO/IEC 29100 Privacy for Cloud
- ISO/IEC 17788 Definitions
- ISO/IEC 27000 series - ITSEC Management

ISO/IEC 27018 PII in Cloud

GDPR
IEEE P2863 - Recommended Practice for Organizational Governance of AI
The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems

An incubation space for new standards and solutions, certifications and codes of conduct, and consensus building for ethical implementation of intelligent technologies

IEEE 7000-2021: Model Process for Addressing Ethical Concerns During System Design
IEEE P7001: Transparency of Autonomous Systems
IEEE P7002: Data Privacy Process
IEEE P7003: Algorithmic Bias Considerations
IEEE P7004: Child and Student Data Governance
IEEE P7005: Employer Data Governance
IEEE P7006: Personal Data AI Agent Working Group
IEEE P7008: Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems
IEEE P7009: Fail-Safe Design of Autonomous and Semi-Autonomous Systems
IEEE 7010-2020: Recommended Practice for Assessing the Impact of Autonomous and Intelligent Systems on Human Well-being
IEEE P7011: Process of Identifying and Rating the Trustworthiness of News Sources
IEEE P7013: Benchmarking of Automated Facial Analysis Technology
Criteria and process for a certification / mark focused on:

- Transparency in A/IS
- Accountability in A/IS
- Algorithmic Bias in A/IS