HSbooster.eu
TRAINING ACADEMY

Intermediate 1

Course 1

STANDARDISATION TRAINING ACADEMY

Topic:

HOW TO FIND THE RIGHT STANDARD

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Module Objectives

After completing this module, you should be able to:

1. address and find the right ISO standard;
2. address and find the right IEC standard;
3. address and find the right ITU standard;
4. address and find the right CEN/CENELEC standard;
5. address and find the right ETSI standard;
6. address and find the right BSI standard;
7. address and find the right DIN standard;
8. address and find the right IEEE standard;
9. address and find the right ASTM standard; and
10. address and find the right ASME standard.

About The Author

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Biljana Tošić is a Teaching Assistant and a Research Assistant at the Faculty of Organisational Sciences, University of Belgrade. She earned a B.Sc. and M.Sc. in Quality Management and Standardisation and another M.Sc. in Human Resources Management at the same Faculty. She is currently a Ph.D. Candidate, working on a doctoral dissertation titled ''The significance of the expertise in standardisation for the internationalisation of SMEs''. To date, she has been engaged in teaching several courses at the Faculty: Fundamentals of Quality, Standardisation 1, Metrology with the Fundamentals of Engineering, Normative Regulation of Quality, and Accreditation and Certification. She has been a member of the organisational board of the World Standards Cooperation Academic Day 2019 and the International Cooperation for Education about Standardisation (ICES) WorkShop 2019. She has been a member of the technical board of the International Symposium SymOrg 2020 titled ''Business and Artificial Intelligence'' and the SymOrg 2022 titled ''Sustainable Business Management and Digital Transformation: Challenges and Opportunities in the post-COVID Era''. She has been engaged in project III 47003 ''Infrastructure for technology-enhanced learning in Serbia'', supported by the Ministry of Education, Science, and Technological Development of the Republic of Serbia (2017-2020). She has been Editor in Chief of the Quality Media Station, the first media centre for quality established within the TEMPUS project titled ''Enhancement of Quality Infrastructure in Western Balkan Countries (EQIWBC)'' (2015-2017). She is currently a member of the National Mirror Committee Conformity Assessment & Quality Management KS CASCO at the Institute for Standardisation of Serbia (National Technical Committee related to ISO/CASCO, ISO/TC 176, ISO/TC 176/SC 1, ISO/TC 176/SC 2, ISO/TC 176/SC 3, ISO/TC 283, CEN/SS F20, CEN/TC 279, CEN/TC 379, CEN/TC 381, CEN/TC 389, CEN/CLC/JTC 1, and CEN/CLC/JTC 4).

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1 INTRODUCTION

There are many resources created by formal organisations for standardisation, professional and industrial associations, business associations, consortia, and fora to assist customers and users to address and find the right standard(s). Some of these organisations offer their standards freely via their website (e.g. standards developed by the ITU-T are publicly available and can be accessed freely) and some of them offer standards for a fee (e.g. most international, regional, or national SDOs). For example, one of the world's largest bibliographic databases of national, European, and international standards developed by over 200 organisations for standardisation from 29 countries, with 2,400,000 records is called the Perinorm database. [1] The Perinorm database for searching and managing standards has been discontinued as of December 31, 2022. [2]

New and innovative solutions, based on the newest technologies, have been developed by the members of the Consortium that created the Perinorm database. You may find these solutions at the following links:

- https://www.beuth.de/de/normen-management
- https://cdn.afnor.org/com/cobaz/discover-en.html

2 HOW TO FIND THE RIGHT ISO STANDARD?

The ISO Online Browsing Platform (OBP) enables users to access the latest content in ISO standards, graphical symbols, codes, or terms and definitions across all ISO publications. [3] All users can preview the entire catalogue of ISO standards for free. [4] The preview enables users to access the document's forward, introduction, scope, normative references, terms and definitions, as well as the bibliography. Many standards even have "a redline view", which enables a comparison between the latest version of standards and the previous ones. [5] This platform enables users to access the entire collection of ISO standards and subscribe to email alerts when these documents are updated, amended, or withdrawn. [6] Additionally, through this platform, users may see how some well-known terms and definitions are used within various industries and

[1] Perinorm. (2025). Perinorm Database. Accessed on 21.02.2025. Retrieved from: https://www.perinorm.com/.
[2] Ibid.
[3] ISOT. (2015). ISOT Guidance Note 2015-03. Accessed on 21.02.2025. Retrieved from: https://share.ansi.org/ISOT/ISOT%20Guidance%20Notes/ISOT%20Guidance%20Note%202015-03%20ISO's%20Online%20Browsing%20Platform.pdf.
[4] Ibid.
[5] Ibid.
[6] Ibid.

sectors. [7] By using additional tools (e.g. filtering and sorting), users can easily expand their search to find the information and the standard(s) they need. [8]

The ISO OBP guarantees: [9]

- the most up-to-date content (when a change is made, the OBP is directly updated),
- ease of use (users may choose the format that best suits their needs), and
- ubiquitous access (users may access OBP from anywhere as long as they are online).

To access the ISO website, please visit the following link:

- https://www.iso.org/

To access the ISO online browsing platform, please visit the following link:

- https://www.iso.org/obp/ui

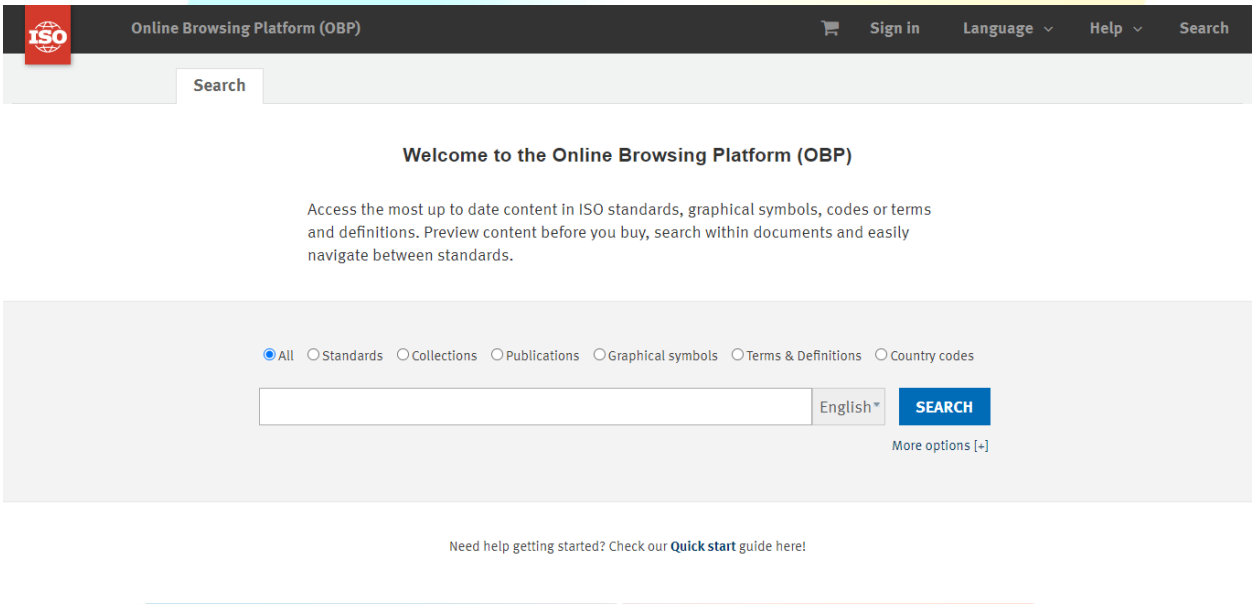

Fig. 1. ISO OBP [10]

[7] Ibid.
[8] Ibid.
[9] ISO. (2025). Online Collection of ISO Country Codes. Accessed on 21.02.2025. Retrieved from: https://www.iso.org/news/2014/02/Ref1814.html.
[10] The printscreen of the link: https://www.iso.org/obp/ui.

#HSbooster.eu Success Story

The Project: H2Value

H2Value as part of Interregional Innovation Investments Instrument (I3) - Innovation investments Strand 2a (I3-2021-INV2a) has received funding from the European Union under grant agreement No. 101083881. I3 is a new instrument and it intends to support innovative value chain investments, to boost the economy through green technology and to create a sustainable industry/transport. It also intends to provide support to interregional investments in sustainable food systems, sustainable agriculture, clean and efficient energy, sustainable industry, building and renovating, sustainable mobility, eliminating pollution and climate action.

The Project Standardisation Needs

H2Value, a project committed to advancing green hydrogen technologies, sought expert guidance to navigate the complexities of standardisation and align its activities with relevant European and international frameworks. The project faced challenges such as the lack of comprehensive safety and security guidelines, administrative barriers in permitting processes, and technical uncertainties in integrating hydrogen into existing systems, including gas networks. To address these issues, H2Value needed a clearer understanding of the current state of green hydrogen standards and policies, particularly at the EU level, and support in identifying opportunities to influence standardisation outcomes. Additionally, the project aimed to equip its stakeholders, including city officials and local partners in Estonia and Lithuania, with the knowledge and tools to engage effectively with standardisation bodies and integrate best practices across the hydrogen value chain. H2Value refined its internal processes by mapping where standardisation could enhance risk management and operational planning and received tailored recommendations to strengthen its ability to contribute to evolving standards, supported by targeted training on building capacity among city officials and stakeholders to navigate the complexities of hydrogen value chain. HSbooster.eu delivered a comprehensive consultancy service, beginning with an analysis of the green hydrogen standards landscape and highlighting key gaps and emerging priorities. This included insights into technical committees such as ISO/TC 197 on Hydrogen Technologies and CEN/ CLC/JTC 6 on Hydrogen in Energy Systems, which were identified as relevant to the project's goals.

To learn more about the Project, please visit the following links:

https://www.h2value.eu/

https://zenodo.org/records/14334712

3 HOW TO FIND THE RIGHT IEC STANDARD?

The IEC website allows the advanced search across all working documents, project files, and work programs, as well as, publications and information on upcoming publications concerning electrical and electronic goods.

[11] The IEC website allows users to find the documents they need by using the keywords (the words or the exact phrases), the committee or the committee title, the date range, as well as, the working area. [12] Additionally, the IEC website allows users to search the dashboard of any IEC committee. [13]

To access the IEC website, please visit the following link:

- https://www.iec.ch/

To access the content on electrical and electronic goods, please visit the following links:

- https://advsearch.iec.ch/ords/f?p=117:104:301822892176380::::FSP_LANG_ID:25
- https://advsearch.iec.ch/ords/f?p=117:104:301822892176380::::FSP_LANG_ID:25
- https://advsearch.iec.ch/ords/f?p=117:104:301822892176380::::FSP_LANG_ID:25
- https://advsearch.iec.ch/ords/f?p=117:105:301822892176380::::FSP_LANG_ID:25
- https://advsearch.iec.ch/ords/f?p=117:105:301822892176380::::FSP_LANG_ID:25

To find the dashboard of any IEC committee, please visit the following link:

- https://advsearch.iec.ch/ords/f?p=117:99:301822892176380::::FSP_LANG_ID:25

Additionally, the IEC TC 1 (Terminology) has developed the world's largest electrotechnical terminology database, containing more than 22 000 terms and definitions considering all electrical, electronic, and related technologies (collectively known as electrotechnologies). [14] All entries are developed in English and French, organized by subject area, with equivalent terms in 18 languages: Arabic, Chinese, Czech, Dutch (Belgian), Finnish, German, Italian, Japanese, Korean, Mongolian, Norwegian (Bokmål and Nynorsk), Polish, Portuguese, Russian, Serbian, Slovenian, Spanish and Swedish (coverage varies by area). [15]

To access the IEC's electrotechnical terminology database, please visit the following link:

- https://www.electropedia.org/

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[11] IEC. (2025b). IEC Advanced Search. Accessed on 21.02.2025. Retrieved from: https://advsearch.iec.ch/ords/f?p=117:104:301822892176380::::FSP_LANG_ID:25.
[12] Ibid.
[13] Ibid.
[14] IEC. (2025a). Electropedia: The World's Online Electrotechnical Vocabulary. Accessed on 21.02.2025. Retrieved from: https://www.electropedia.org/.
[15] Ibid.

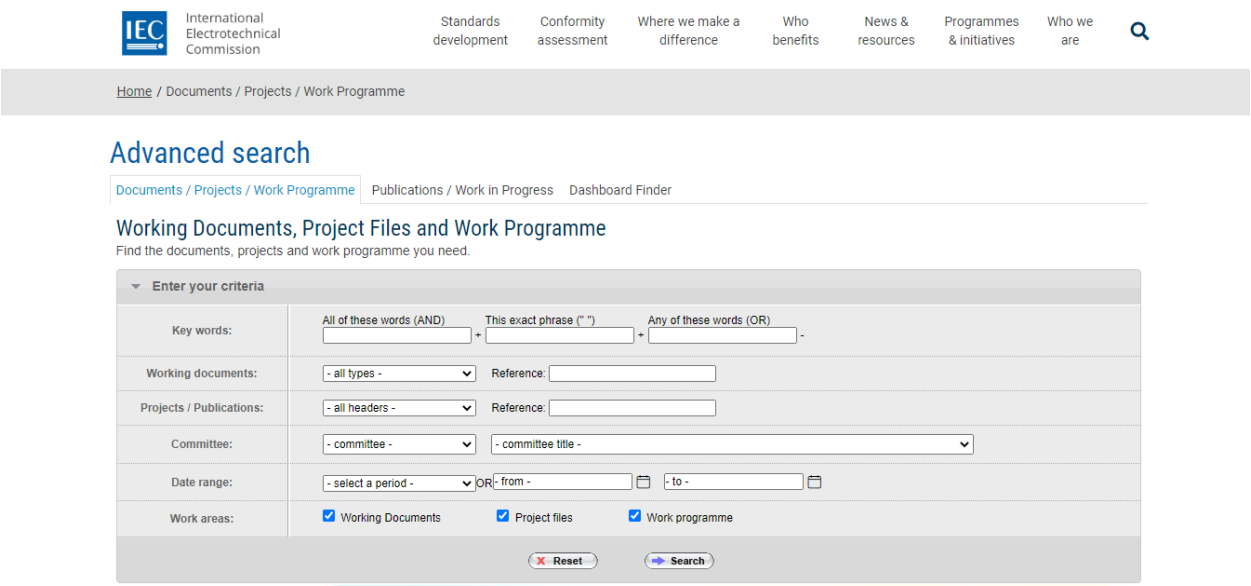

Fig. 2. IEC Advanced Search [16]

4 HOW TO FIND THE RIGHT ITU STANDARD?

The ITU-T develops standards explaining the way in which telecommunications networks operate. These telecommunications standards are called Recommendations (ITU-T Recs) and they usually have a non-mandatory status until they are adopted by national laws. [17] The ITU membership allows exclusive access to standards under development and, once these standards are published, they are available for free. [18] Only common ITU-T|ISO/IEC texts (for which special arrangements exist) are not available for free. [19] The ITU-T Recommendations are mainly organized by the series structure and are cross-linked to ''the corresponding work program item, the approval process, the formal description(s), test signals, supplements, implementer's guides, and the IPR statements when applicable''. [20]

To access the ITU website, please visit the following link:

- https://www.itu.int/

[16] The printscreen of the link: https://advsearch.iec.ch/ords/f?p=117:104:0.
[17] ITU. (2025). ITU-T Recommendations. Accessed on 21.02.2025. Retrieved from: https://www.itu.int/en/ITU-T/publications/Pages/recs.aspx.
[18] Ibid.
[19] Ibid.
[20] Ibid.

To access the ITU-T website, please visit the following link:

- https://www.itu.int/en/ITU-T/

To access the ITU-T Recommendations, please visit the following links:

- https://www.itu.int/net4/ITU-T/search#?collection=ITU-T%20Recommendations
- https://www.itu.int/en/ITU-T/publications/Pages/latest.aspx
- https://www.itu.int/t/aap/aap-recs
- https://www.itu.int/net/ITU-T/lists/t-approval.aspx
- https://www.itu.int/ITU-T/recommendations/iso.aspx
- https://www.itu.int/pub/T-REC

Additionally, the ITU-T has developed the official ITU terminology database explaining all ''the abbreviations, acronyms, terms, and definitions contained in publications approved by the membership of ITU''. [21] The database is regularly updated and maintained by the ITU-T. [22]

The official ITU terminology database guarantees: [23]

- the terminology correspondence between the six official languages,
- the terms and definitions, as well as, abbreviations, and
- the reference to the ITU Publications (Recommendations, Reports, Regulatory, etc.).

To access the official ITU terminology database, please visit the following link:

- https://www.itu.int/br_tsb_terms/#/

[21] ITU-T. (2025). ITU Terms and Definitions. Accessed on 21.02.2025. Retrieved from: https://www.itu.int/br_tsb_terms/#/.
[22] Ibid.
[23] Ibid.

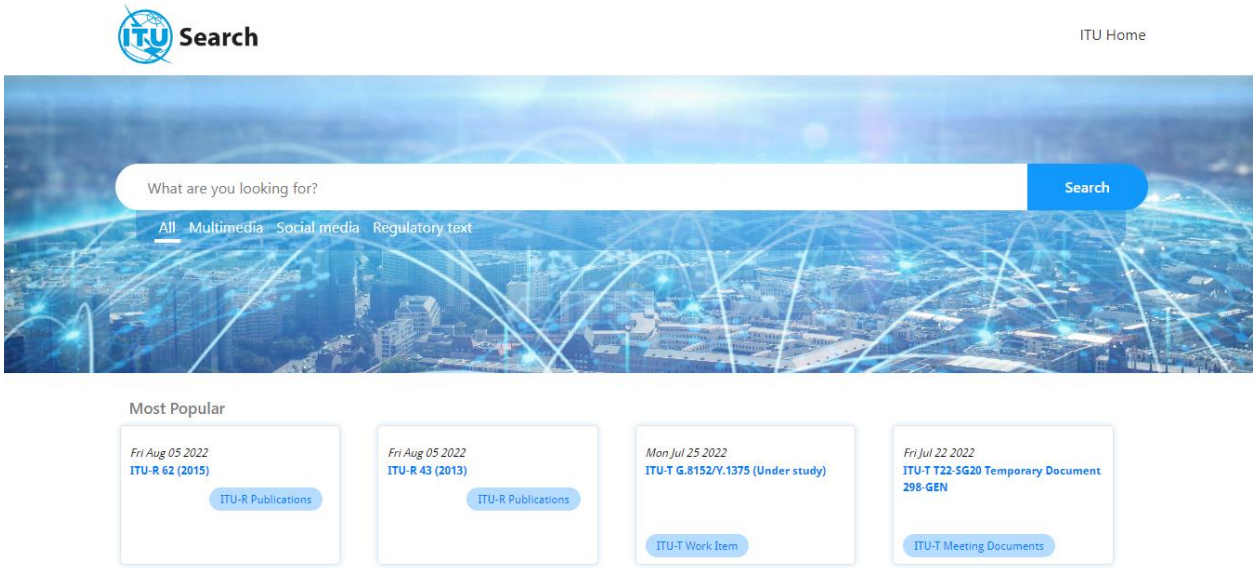

Fig. 3. ITU Search [24]

5 HOW TO FIND THE RIGHT CEN/CENELEC STANDARD?

European organisations for standardisation CEN and CENELEC do not distribute or sell standards. European Standards (ENs) and other documents, such as draft standards (prENs), Harmonized Documents (HDs), Technical Specifications (TSs), Technical Reports (TRs), and CEN or CENELEC Workshop Agreements (CWAs), may be purchased from: [25]

- CEN Members & Affiliates; and
- CENELEC Members & Affiliates.

To access the CEN/CENELEC website, please visit the following link:

- https://www.cencenelec.eu/

To access the complete lists of CEN Members, please visit the following link:

- https://standards.cencenelec.eu/dyn/www/f?p=CEN:5

[24] The printscreen of the link: https://www.itu.int/search.
[25] CEN/CENELEC. (2025c). Obtaining European Standards. Accessed on 21.02.2025. Retrieved from: https://www.cencenelec.eu/european-standardization/european-standards/obtaining-european-standards/.

To access the complete lists of CENELEC Members, please visit the following links:

- https://standards.cencenelec.eu/dyn/www/f?p=CENELEC:5

To access the complete lists of CEN Affiliates, please visit the following links:

- https://standards.cencenelec.eu/dyn/www/f?p=CEN:9

To access the complete lists of CENELEC Affiliates, please visit the following links:

- https://standards.cencenelec.eu/dyn/www/f?p=CENELEC:9

''European Standards are the result of extensive efforts performed by the market players who provide the expertise and fund the infrastructure of standardisation in Europe''. [26] They provide value for the users who support the work of experts by purchasing European Standards for a reasonable fee. [27] Several CEN and/or CENELEC Workshop Agreements (CWAs), mainly in the ICT domain, are available for free, given some special arrangements. [28]

To see which CWAs are available for free, please visit the following link:

- https://www.cencenelec.eu/get-involved/research-and-innovation/cen-and-cenelec-activities/cwa-download-area/

The entire collections of both published standards and standards under development at CEN and CENELEC are available via the CEN and CENELEC ''Search Standards'' database. The database allows users to search standards by their number and by all or part of the tile (in English, German, and French). By using additional tools, users may access the scope of standards and narrow their search to find the information and the standard(s) they need. [29]

[26] CEN/CENELEC. (2025b). Frequently Asked Questions (FAQs). Accessed on 21.02.2025. Retrieved from: https://www.cencenelec.eu/bottom-navigation-pages/faqs/.
[27] Ibid.
[28] Ibid.
[29] CEN/CENELEC. (2025a). Finding the right standards. Accessed on 21.02.2025. Retrieved from: https://www.cencenelec.eu/get-involved/small-and-medium-enterprises-smes/tools-for-smes/finding-the-right-standards/.

To access the CEN and CENELEC search standards database, please visit the following link:

- https://standards.cencenelec.eu/dyn/www/f?p=CEN:105::RESET::::

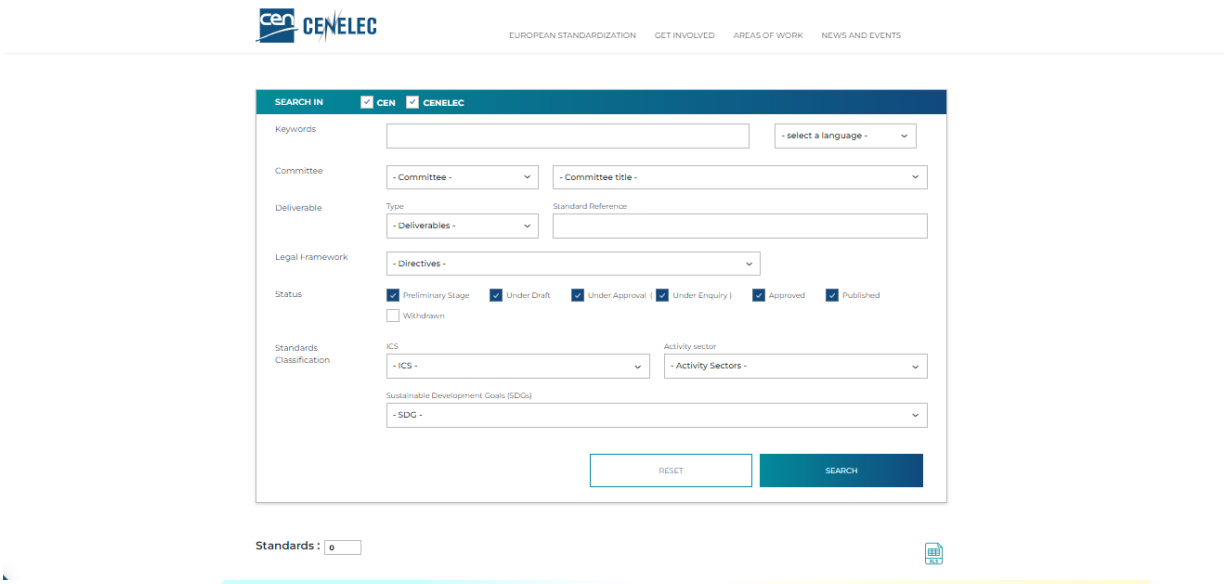

Fig. 4. CEN & CENELEC Search Standards Database [30]

#HSbooster.eu Success Story

The Project: AVANT

AVANT is a multi-actor inter-sectorial project aimed at developing alternatives to antimicrobials for the management of bacterial infections in pigs, especially diarrhoea during the weaning period, as the major indication for antimicrobial use in livestock in Europe. During pre-clinical studies, efficacy, toxicity, and mode of action of these interventions are tested, and their dosage and formulation optimized. The results and a survey for veterinarian-, farmer- and consumer-perception of antimicrobial alternatives, will be used together with legal and economic considerations to select three interventions for large-scale farm trials, assessing clinical efficacy and impact on antimicrobial use.

The Project Standardisation Needs

AVANT addressed the human health risk posed by excessive antimicrobial use in veterinary medicine due to the potential transfer of resistant bacteria. Focused on managing pig enteritis, a leading reason for antimicrobial use in food animals, AVANT explored various solutions, including gut microbiome modulators, innovative medicines targeting pathogens or enhancing the pig's immune response, and feed-based preventive strategies. After pre-clinical studies that considered regulatory aspects, the most promising

[30] The printscreen of the link: https://standards.cencenelec.eu/dyn/www/f?p=CEN:105::RESET::::

interventions were tested in farm trials. Mathematical modelling also played a key role in predicting how these alternatives could reduce antimicrobial use. AVANT sought guidance on leveraging project data and findings to support and influence the development of new standards in animal health. These standards aimed to promote effective and sustainable veterinary practices in antimicrobial use. AVANT addressed sustainability challenges in veterinary practices in antimicrobial use. During the initial call, the HSbooster.eu expert provided targeted advice on navigating the standardisation landscape, including initial recommendations on TCs relevant to animal health, databases for finding appropriate standards, and a strategic approach to integrating standardisation within the project. Preliminary suggestions included a liaison with CEN/TC 469 "Animal health diagnostic analyses" and alignment with the cluster project ArMoR to broaden the impact of AVANT's findings.

To learn more about the Project, please visit the following links:

https://avant-project.eu/

https://zenodo.org/records/14327971

#HSbooster.eu Success Story

The Project: HoloZcan

The project is a Research and Innovation Action, its funding originates from the H2020-EU.3.7.5. - Increase Europe's resilience to crises and disasters budget line, topic: SU-DRS04-2019-2020 - Chemical, biological, radiological and nuclear (CBRN) cluster. HoloZcan brings a new tool for security actors (police, relief workers, disaster managers, crisis managers, stakeholders responsible for public safety, critical infrastructure, and service providers) notably in the fields of autonomous detection and response capabilities. The project will increase (environmental and exhaled) bio-aerosol sensing/measurement capability of CBRN practitioners by developing a high resolution, large throughput, automatic and highly portable detection system for making automatic classification of pathogens and particles. HoloZcan develops a novel holographic microscopy and imaging technology for rapid and cost-efficient screening of potential biological threats and unknown, potentially dangerous substances, combined with methods of artificial intelligence and machine learning. It establishes a framework of a dynamic feature selection and validation algorithm to support the continuous innovation capability of the system in the field of adaptive learning and database optimization for specific bioinformatic applications. The project also develops comprehensive and innovative means of respiratory, ventilation and environmental biological data sampling that can be used in real-time, standoff or in mobile bio-detection context. The project indicates the HoloZcan technique's versatility for a wide range of applications and demonstrates its technical feasibility. The project responds to the actual needs of European practitioners and technological gaps identified by the ENCIRCLE project as indicated in the ENCIRCLE Catalogue of Technologies and addresses several shortcomings of the current approaches to bio-threat agent detection.

The HoloZcan project applies a flexible adaptive approach to design and CBRN practitioners are engaged as project partners or as external stakeholders in the process.

The Project Standardisation Needs

HoloZcan is an innovative initiative focusing on enhancing societal resilience against Chemical, Biological, Radiological, and Nuclear (CBRN) incidents. This project is primarily centered around the development of an autonomous biodetection device, employing advanced technology to detect and analyze potential CBRN threats. Digital Holographic Microscopy Combined with Fluorescence Microscopy: The project demonstrates the application of this novel technology in civil security, particularly in field measurements. This technology is a significant advancement in detecting and analyzing microscopic particles and organisms in various environments. HoloZcan aims to find connections with ongoing standardisation processes in this field and contribute to the development of missing standards. HoloZcan contributed to standardisation in holographic microscopy by aligning its innovations with relevant technical committees. The assigned HSbooster.eu expert shared insights on which SDOs to engage with and provided advice on how to influence processes and outcomes of standardisation. She suggested how to propose new standardisation items to a Technical Committee and advised on questions for preparatory work before the final decision-making. The expert leveraged her network to support the project in engaging with relevant Technical Committees and Working Groups, such as CEN/TC 391 Societal and Citizen Security WG2 – High-Risk Hazards & CBRNE, among others.

To learn more about the Project, please visit the following links:

https://www.holozcan.com/

https://zenodo.org/records/14327556

6 HOW TO FIND THE RIGHT ETSI STANDARD?

The ETSI website allows the search across pre-defined collections of standards, such as the most popular, the most recent, ES/EG on approval, EN on approval, published last week, HSs not yet cited in OJ, HSs RED cited in OJ, HSs EMC cited in OJ, HSs 2016/2102/EU cited in OJ, HSs cited in OJ. [31] As the European organisation for standardisation, ETSI works closely with each European country's NSB, many of which are ETSI members. [32] Standards can be obtained from ETSI members or by contacting one of the distributors from the list.

To access the ETSI website, please visit the following link:

[31] ETSI. (2025b). Search & Browse Standards. Accessed on 21.02.2025. Retrieved from: https://www.etsi.org/standards/get-standards#Pre-defined%20Collections.

[32] ETSI. (2025a). National Standards Organizations. Accessed on 21.02.2025. Retrieved from: https://www.etsi.org/about/our-partnerships.

- https://www.etsi.org/

To search across pre-defined collections of ETSI standards, please visit the following link:

- https://www.etsi.org/standards/get-standards#Pre-defined%20Collections

To obtain ETSI standards from ETSI members, please visit the following link:

- https://www.etsi.org/about/our-partnerships

To obtain ETSI standards from one of the distributors, please visit the following link:

- https://www.etsi.org/distributors-list

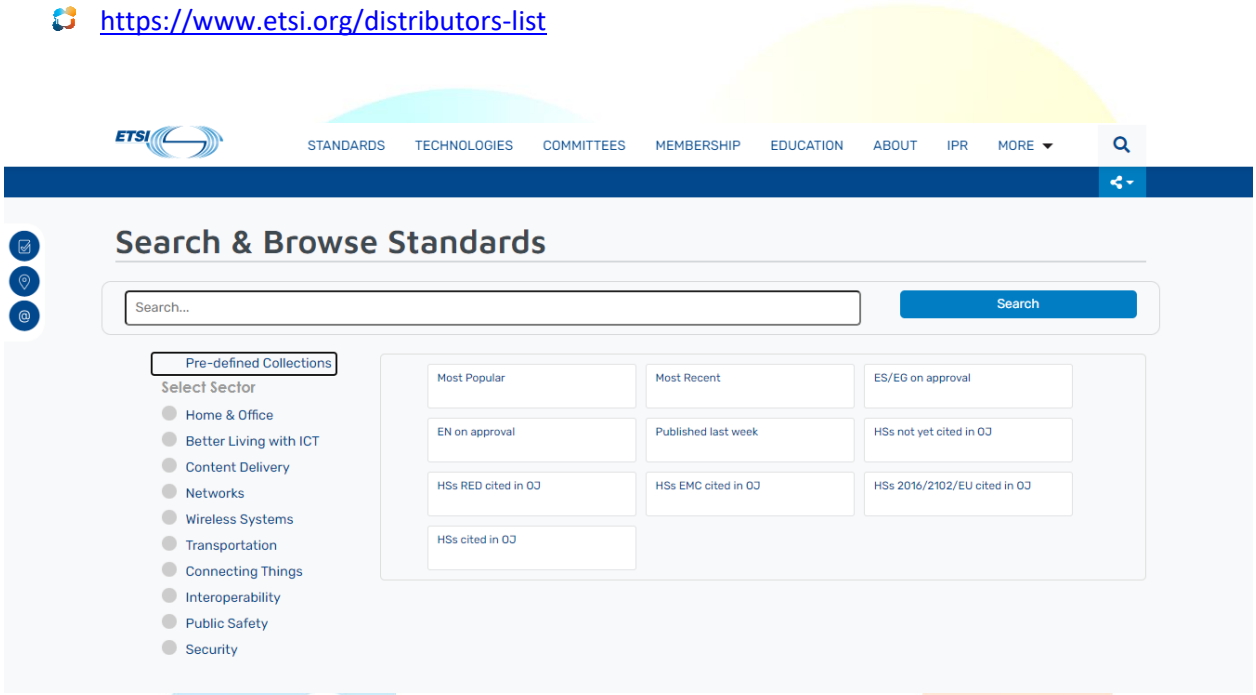

Fig. 5. ETSI Search & Browse Standards [33]

7 HOW TO FIND THE RIGHT BSI STANDARD?

The BSI offers users two ways to access and buy ISO, European, and British standards – buying standards and subscribing to a collection of standards. There are several benefits of buying standards vs. subscribing to a

[33] The printscreen of the link: https://www.etsi.org/standards-search#Pre-defined%20Collections.

collection of standards, and the BSI offers guidance and recommendations to users while assisting them to make the most reasonable choice. [34]

To access the BSI website, please visit the following link:

- https://www.bsigroup.com/

To get the latest BSI news and BSI standards updates, please visit the following link:

- https://knowledge.bsigroup.com/

To subscribe to a collection of standards, please visit the following link:

- https://www.bsigroup.com/en-GB/our-services/standards-subscription-services/

To learn more about how to access and buy BSI standards, please visit the following link:

- https://www.bsigroup.com/en-GB/standards/how-to-access-and-buy-ISO-standards/

The BSI allows users to access and buy ISO, European, and British standards through the BSI Knowledge. The BSI Knowledge has recently been developed as a new platform that replaced the BSI Shop. The BSI Knowledge offers similar features as the BSI Shop, aimed at finding, buying, managing, and learning about standards. [35] As a developing platform, the BSI Knowledge offers several proven advantages to users, enabling them to improve their products/services, processes, and performances. [36] The BSI Knowledge will add additional services, such as ''subscriptions, training, and service packages''. [37] One of the biggest advantages might be merging the British Standards Online (BSOL) and the BSI Knowledge. [38]

To access a simple online tool that gives you instant access to standards and an opportunity to build your own database of relevant BSI standards, please visit the following link:

- https://bsol.bsigroup.com/

[34] BSI. (2025b). Buy Standards: Discover BSI Knowledge. Accessed on 21.02.2025. Retrieved from: https://www.bsigroup.com/en-GB/standards/how-to-access-and-buy-ISO-standards/.
[35] BSI. (2025a). BSI Knowledge: Discover the value of standards. Accessed on 21.02.2025. Retrieved from: https://knowledge.bsigroup.com/articles/bsi-knowledge-discover-the-value-of-standards.
[36] Ibid.
[37] Ibid.
[38] Ibid.

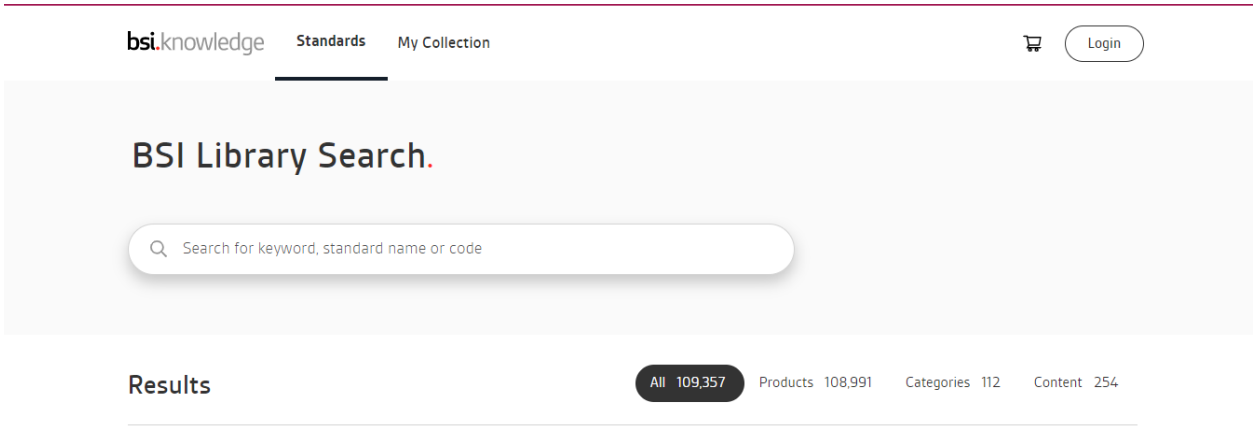

Fig. 6. BSI Library Search [39]

8 HOW TO FIND THE RIGHT DIN STANDARD?

A subsidiary of DIN, DIN Media is "one of Europe's leading publishers for standards and other technical rules – and Europe's no 1 full-service provider of technical information for all industry sectors and professions". [40] DIN Media is one of the largest publishing houses in Europe as it offers a variety of products and services, including books, e-books, online services featuring standard collections, and full-service standards solutions. [41] DIN Media offers over 600,000 documents from German, European and international collections, including individual documents, flat rate subscriptions, network licences or standards subscriptions to be downloaded (or sent by post). [42] Specifically, DIN Media offers the possibility to browse DIN standards, Standards and technical rules from other German publishers, and Standards and technical rules from publishers outside Germany. [43]

To access the DIN website, please visit the following link:

- https://www.din.de/

To access the DIN Media website, please visit the following link:

[39] The printscreen of the link: https://knowledge.bsigroup.com/search?query=&type=all.
[40] DIN. (2025a). Buy Standards. Accessed on 21.02.2025. Retrieved from: https://www.din.de/en/about-standards/buy-standards.
[41] Ibid.
[42] DIN Media. (2025). Standards at DIN Media. Accessed on 21.02.2025. Retrieved from: https://www.dinmedia.de/en/standards-products/standards.
[43] Ibid.

- https://www.dinmedia.de/

To access standards collections, please visit the following link:

- https://www.dinmedia.de/en/standards-products/standards

Accordingly, the DIN has developed an official terminology database that is freely available. [44] All entries are given in German, with English, French, and Polish equivalents. [45] The terminology database offers two levels of access: the DIN-TERM Online which does not require registration and enables access to more than 210,000 standards terms and the DIN-TERMinology Portal which is also free of charge but requires a one-time registration and enables the use of more advanced tools (e.g. filtering and sorting) across all documents. [46]

To access the official terminology database, please visit the following link:

- https://www.din.de/en/services/din-termonline

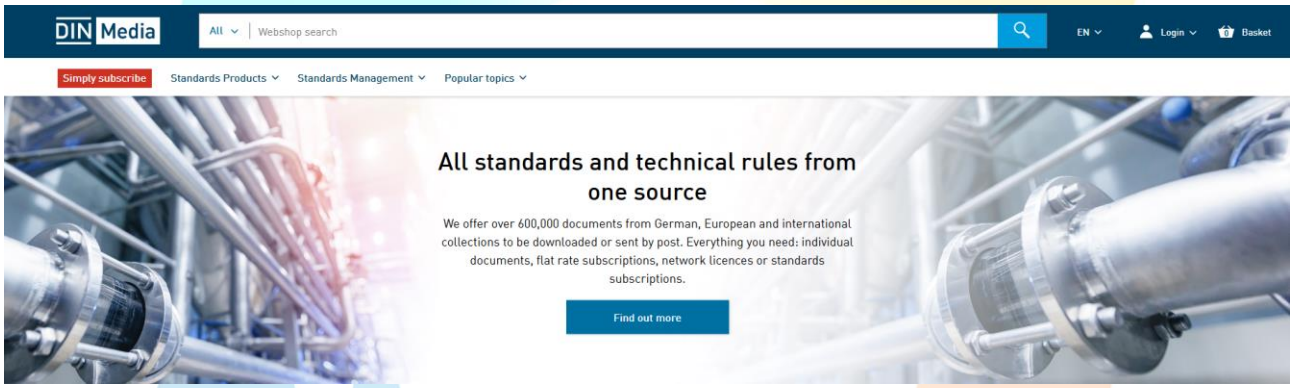

Fig. 7. DIN Media: All standards and technical rules from one source [47]

9 HOW TO FIND THE RIGHT IEEE STANDARD?

[44] DIN. (2025b). DIN-TERMinology: Access for the Public. Accessed on 21.02.2025. Retrieved from: https://www.din.de/en/services/terminology.
[45] Ibid.
[46] Ibid.
[47] The printscreen of the link: https://www.dinmedia.de/en.

The IEEE website offers users four ways to access and buy standards: [48]

- IEEE Standards Store,
- IEEE Xplore Digital Library,
- IEEE Standards Reading Room, and
- IEEE GET Program.

To access the IEEE website, please visit the following link:

- https://standards.ieee.org/

To access the IEEE Standards Store, please visit the following link:

- https://www.techstreet.com/ieee/

To access the IEEE Xplore Digital Library, please visit the following link:

- https://ieeexplore.ieee.org/Xplore/home.jsp

To access the IEEE Standards Reading Room, please visit the following link:

- https://ieeexplore.ieee.org/browse/standards/reading-room/page

To access the IEEE Get Program, please visit the following link:

- https://ieeexplore.ieee.org/browse/standards/get-program/page

The standards store allows search by category (e.g. by technical committee or by ICS code) and offers standards online collections that are most suitable for companies, universities, and governmental agencies. [49] The standards store also offers standards tracking services aimed at tracking standards and notifying if anything changes. [50] The digital library allows advanced, command, and citation search, enabling users to access over 5.666.753 documents, such as books, conferences, courses, journals and magazines, and

[48] IEEE. (2025a). Access Standards. Accessed on 21.02.2025. Retrieved from: https://standards.ieee.org/access-standards/.
[49] IEEE. (2025d). IEEE Standards Store. Accessed on 21.02.2025. Retrieved from: https://www.techstreet.com/ieee/.
[50] Ibid.

standards. [51] The digital library offers several search examples and search tips while enabling users to search the digital library for keywords, phrases, author names, and publication details. [52] The reading room allows users to access a complete list of standards referenced by the law in the view-only format. [53] With support from the IEEE, industry sponsors, and the government, the Get Program allows users to access a complete list of standards for free. [54]

To access standards online collections, please visit the following link:

- https://innovate.ieee.org/ieee-standards-online-collections/?

To learn more about standards tracking services, please visit the following link:

- https://www.techstreet.com/ieee/pages/tracker_instructions.html

To learn more about advanced, command and citation search, please visit the following links:

- https://ieeexplore.ieee.org/search/advanced
- https://ieeexplore.ieee.org/search/advanced/command
- https://ieeexplore.ieee.org/search/advanced/citation

To explore the IEEE content, please visit the following links:

- https://ieeexplore.ieee.org/browse/books/title
- https://ieeexplore.ieee.org/browse/conferences/title
- https://ieeexplore.ieee.org/courses/home
- https://ieeexplore.ieee.org/browse/periodicals/title
- https://ieeexplore.ieee.org/browse/standards/collection/ieee

To explore search examples, please visit the following link:

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[51] IEEE. (2025e). IEEE Xplore Digital Library. Accessed on 21.02.2025. Retrieved from: https://ieeexplore.ieee.org/Xplore/home.jsp.

[52] Ibid.

[53] IEEE. (2025c). IEEE Standards Reading Room. Accessed on 21.02.2025. Retrieved from: https://ieeexplore.ieee.org/browse/standards/reading-room/page.

[54] IEEE. (2025b). IEEE Get Program. Accessed on 21.02.2025. Retrieved from: https://ieeexplore.ieee.org/Xplorehelp/subscriptions-and-open-access/ieee-get-program#about-the-ieee-get-program.

- https://ieeexplore.ieee.org/Xplorehelp/searching-ieee-xplore/search-examples

To explore search tips, please visit the following link:

- https://ieeexplore.ieee.org/Xplorehelp/searching-ieee-xplore/search-tips

To access a complete list of standards referenced by the law, please visit the following link:

- https://ieeexplore.ieee.org/browse/standards/reading-room/page

To access a complete list of standards for free, please visit the following link:

- https://ieeexplore.ieee.org/browse/standards/get-program/page

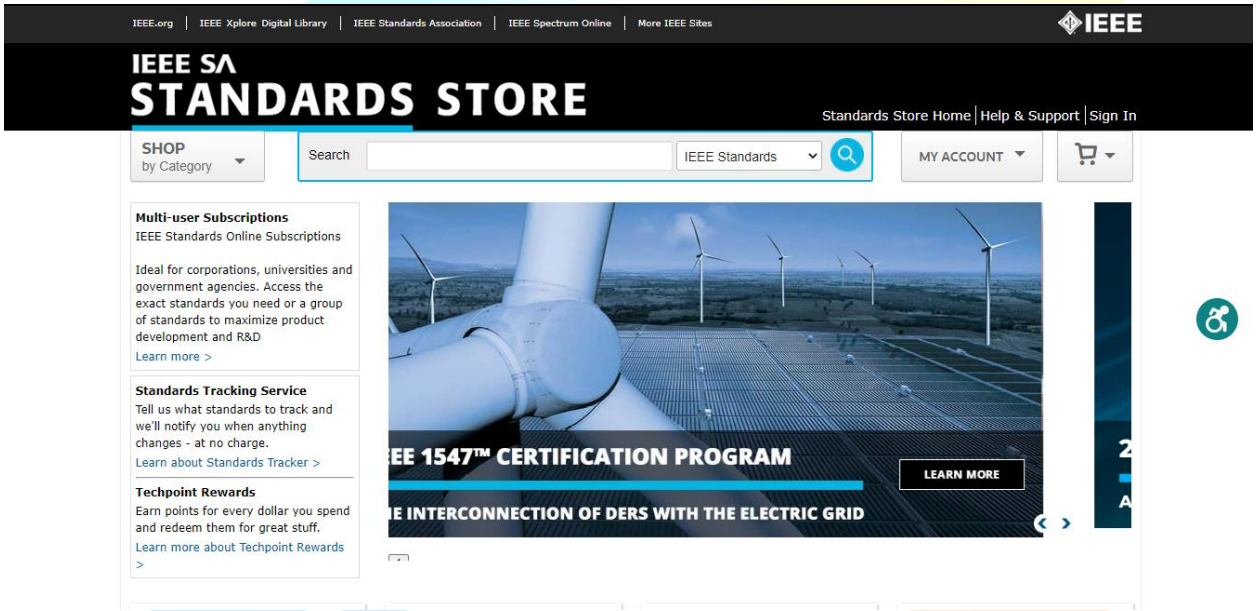

Fig. 8. IEEE Standards Store [55]

10 HOW TO FIND THE RIGHT ASTM STANDARD?

The ASTM website allows users to access standards, books, journals, and technical articles via Digital Library. When it comes to standards, users can buy one standard, a volume that consists of several standards, a

[55] The printscreen of the link: https://www.techstreet.com/ieee/.

section that consists of several volumes, or the entire collection of standards. [56] The website allows users to access the Annual Book of Standards which consists of over 12,800 standards and is available online. The users can also access online volume subscriptions via the ASTM Compass platform. [57] These online volumes are regularly updated and maintained, and allow users to access working drafts, updated, amended, or withdrawn versions of standards, as well as, additional tools, such as annotations, comparisons, and bookmarks. [58] The website also allows users to access the complete list of adjuncts (sorted by Committee) (adjuncts are ''the data or material that supplement and support a standard but, due to their size, volume, physical makeup, or nature, are not included in the text of a standard''. [59] The website offers the Reading Room where users can preview some of the safety standards referenced by the US regulations. [60]

To access the ASTM website, please visit the following link:

- https://www.astm.org/

To access the ASTM digital library, please visit the following link:

- https://www.astm.org/products-services/digital-library.html

To access the Annual Book of Standards, please visit the following link:

- https://www.astm.org/products-services/bos.html

To access online volume subscriptions, please visit the following link:

- https://www.astm.org/products-services/standards-and-publications/standards/online-subscriptions.html

To assess ASTM Compass platform, please visit the following link:

[56] ASTM. (2025d). Standards Products. Accessed on 21.02.2025. Retrieved from: https://www.astm.org/products-services/standards-and-publications/standards.html.
[57] ASTM. (2025b). Annual Book of ASTM Standards. Accessed on 21.02.2025. Retrieved from: https://www.astm.org/products-services/bos.html.
[58] Ibid.
[59] ASTM. (2025a). Adjuncts by Committee. Accessed on 21.02.2025. Retrieved from: https://www.astm.org/products-services/standards-and-publications/adjuncts-and-reference-radiographs.html.
[60] ASTM. (2025c). Reading Room. Accessed on 21.02.2025. Retrieved from: https://www.astm.org/products-services/reading-room.html.

- https://www.astm.org/products-services/enterprise-solutions/astm-compass.html?utm_source=google&utm_medium=cpc&utm_campaign=astm+compass&gclid=Cj0KCQjwlK-WBhDjARIsAO2sErTULL_Y7KvQuaSjHOwveKYOCEk1gB1cof36ZE6Bn3z8jaTeprMzImAaAgmKEALw_wcB

To access the complete list of adjuncts, please visit the following link:

- https://www.astm.org/products-services/standards-and-publications/adjuncts-and-reference-radiographs.html

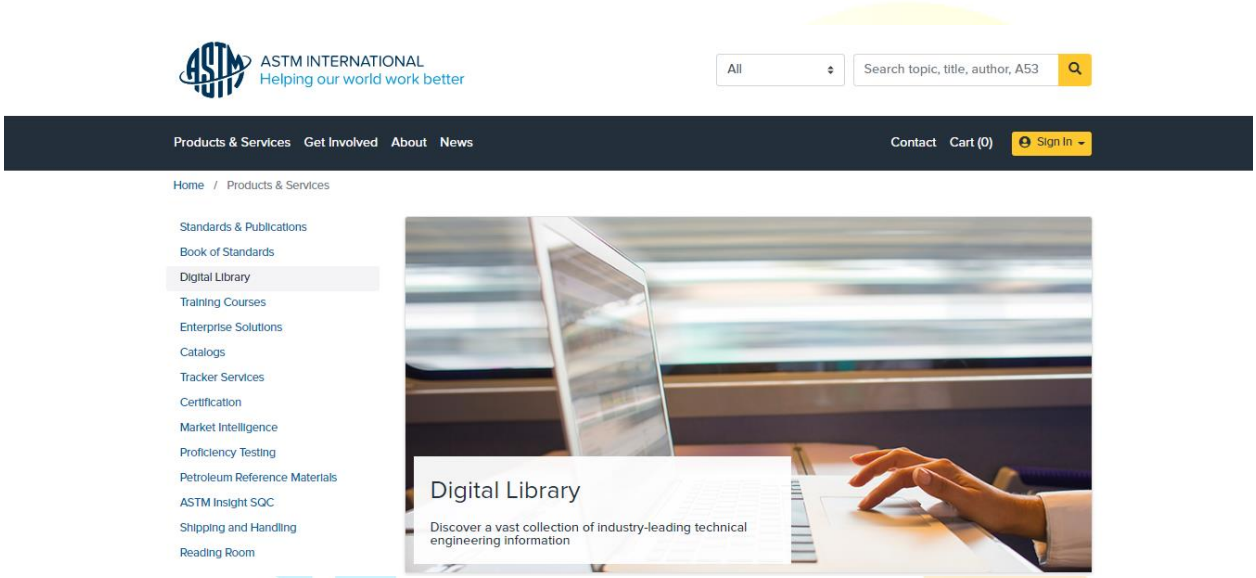

Fig. 9. ASTM Digital Library [61]

11 HOW TO FIND THE RIGHT ASME STANDARD?

The ASME website allows users to access standards and codes by using more advanced tools (e.g. filtering and sorting). The website also allows standards update notifications. Additionally, the ASME digital collection

[61] The printscreen of the link: https://www.astm.org/products-services/digital-library.html.

allows users to access engineering content, such as conference proceedings (back to 1955), journals (back to 1959), and books (back to 1993). [62]

To access the ASME website, please visit the following link:

- https://www.asme.org/

To get standards update notifications, please visit the following link:

- https://www.asme.org/codes-standards/product-update-notifications

To access the ASME digital collection(s), please visit the following links:

- https://asmedigitalcollection.asme.org/

To access the ASME engineering content, please visit the following link:

- https://www.asme.org/publications-submissions/proceedings
- https://www.asme.org/publications-submissions/journals
- https://www.asme.org/publications-submissions/books

The ASME also offers online courses on a wide variety of topics:

- https://www.asme.org/learning-development/find-course

[62] ASME. (2025). The ASME Digital Collection. Accessed on 21.02.2025. Retrieved from: https://asmedigitalcollection.asme.org/pages/about.

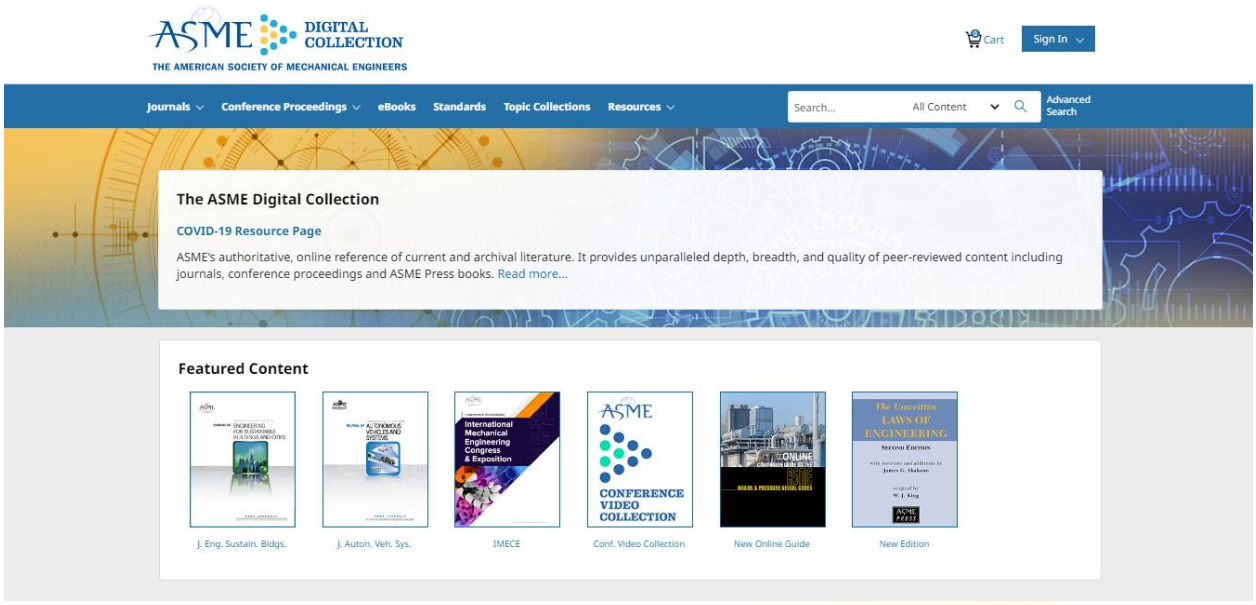

Fig. 10. ASME Digital Collection [63]

[63] The printscreen of the link: https://asmedigitalcollection.asme.org/.

SUMMARY

There are many resources created by formal organisations for standardisation, professional and industrial associations, business associations, consortia, and fora to assist customers and users to address and find the right standard(s). Some of these organisations offer their standards freely via their website (e.g. standards developed by the ITU-T are publicly available and can be accessed freely) and some of them offer standards for a fee (e.g. most international, regional, or national SDOs). For example, one of the world's largest bibliographic databases of national, European, and international standards developed by over 200 organisations for standardisation from 29 countries, with over 2,400,000 records is called Perinorm. [64] Available in three languages (English, French & German), the Perinorm allows users to easily make standards queries and manage their own standards database. [65] The ISO Online Browsing Platform (OBP) enables users to access the latest content in ISO standards, graphical symbols, codes, or terms and definitions across all ISO publications. [66] All users can preview the entire catalogue of ISO standards for free. [67] The IEC website allows the advanced search across all working documents, project files, and work programs, as well as, publications and information on upcoming publications concerning electrical and electronic goods. [68] The ITU membership allows exclusive access to standards under development and, once these standards are published, they are available for free. [69] Only common ITU-T|ISO/IEC texts (for which special arrangements exist) are not available for free. [70] European organisations for standardisation CEN and CENELEC do not distribute or sell standards. European Standards (ENs) and other documents, such as draft standards (prENs), Harmonized Documents (HDs), Technical Specifications (TSs), Technical Reports (TRs), and CEN or CENELEC Workshop Agreements (CWAs), may be purchased from CEN Members and Affiliates and CENELEC Members and Affiliates. [71] Similarly, ETSI standards can be obtained from ETSI members or by contacting one of the distributors from the list. The BSI offers users two ways to access and buy ISO, European, and British standards – buying standards and subscribing to a collection of standards. There are several benefits of buying standards vs. subscribing to a collection of standards, and the BSI offers guidance and recommendations to users while assisting them to make the most reasonable choice. [72] A subsidiary of DIN, DIN Media is “one of Europe's leading publishers for standards and other technical rules – and Europe's no 1

[64] Perinorm. (2025). Perinorm Database. Accessed on 21.02.2025. Retrieved from: https://www.perinorm.com/.
[65] Ibid.
[66] ISOT. (2015). ISOT Guidance Note 2015-03. Accessed on 21.02.2025. Retrieved from: https://share.ansi.org/ISOT/ISOT%20Guidance%20Notes/ISOT%20Guidance%20Note%202015-03%20ISO's%20Online%20Browsing%20Platform.pdf.
[67] Ibid.
[68] IEC. (2025b). IEC Advanced Search. Accessed on 21.02.2025. Retrieved from: https://advsearch.iec.ch/ords/f?p=117:104:301822892176380:::FSP_LANG_ID:25.
[69] ITU. (2025). ITU-T Recommendations. Accessed on 21.02.2025. Retrieved from: https://www.itu.int/en/ITU-T/publications/Pages/recs.aspx.
[70] Ibid.
[71] CEN/CENELEC. (2025c). Obtaining European Standards. Accessed on 21.02.2025. Retrieved from: https://www.cencenelec.eu/european-standardization/european-standards/obtaining-european-standards/.
[72] BSI. (2025b). Buy Standards: Discover BSI Knowledge. Accessed on 21.02.2025. Retrieved from: https://www.bsigroup.com/en-GB/standards/how-to-access-and-buy-ISO-standards/.

full-service provider of technical information for all industry sectors and professions". [73] DIN Media is one of the largest publishing houses in Europe as it offers a variety of products and services, including books, e-books, online services featuring standard collections, and full-service standards solutions. [74] DIN Media offers over 600,000 documents from German, European and international collections, including individual documents, flat rate subscriptions, network licences or standards subscriptions to be downloaded (or sent by post). [75] The IEEE website offers four ways to access and buy standards – IEEE Standards Store, IEEE Xplore Digital Library, IEEE Standards Reading Room, and IEEE Get Program. [76] The ASTM website allows users to access standards, books, journals, and technical articles via Digital Library. The ASME website allows users to access standards and codes by using more advanced tools (e.g. filtering and sorting). The ASME digital collection allows users to access the ASME engineering content, such as conference proceedings, journals, and books. [77]

[73] DIN. (2025a). Buy Standards. Accessed on 21.02.2025. Retrieved from: https://www.din.de/en/about-standards/buy-standards.
[74] Ibid.
[75] DIN Media. (2025). Standards at DIN Media. Accessed on 21.02.2025. Retrieved from: https://www.dinmedia.de/en/standards-products/standards.
[76] IEEE. (2025a). Access Standards. Accessed on 21.02.2025. Retrieved from: https://standards.ieee.org/access-standards/.
[77] ASME. (2025). The ASME Digital Collection. Accessed on 21.02.2025. Retrieved from: https://asmedigitalcollection.asme.org/pages/about.

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CEN/CENELEC. (2025b). Frequently Asked Questions (FAQs). Accessed on 21.02.2025. Retrieved from: https://www.cencenelec.eu/bottom-navigation-pages/faqs/.

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IEEE. (2025a). Access Standards. Accessed on 21.02.2025. Retrieved from: https://standards.ieee.org/access-standards/.

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