IEEE Xplore Accessibility Conformance Report

WCAG 2.1 Edition

(Based on VPAT® Version 2.4)

Name of Product/Version: IEEE Xplore Digital Library

Report Date: 20 May 2024

Product Description: Electrical and electronic engineering publication library

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Notes:

Evaluation Methods Used: Deque axe browser plugin, NVDA screenreader, JAWS screenreader, WebAIM Color Contrast Checker, Google Lighthouse, taba11y plugin

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included In Report
Web Content Accessibility Guidelines 2.0	Level A (Yes / No)
	Level AA (Yes / No)
	Level AAA (Yes / No)
Web Content Accessibility Guidelines 2.1	Level A (Yes / No)
	Level AA (Yes / No)

Standard/Guideline	Included In Report
	Level AAA (Yes / No)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Partially Supports**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- **Not Applicable**: The criterion is not relevant to the product.
- **Not Evaluated**: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

Table 1: Success Criteria, Level A

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **All non-text content has a text alternative that serves the equivalent purpose.** Electronic Docs: Software: Closed: Authoring Tool:
1.2.1 Audio-only and Video-only (Prerecorded) (Level A)	Web: **Not Applicable** Electronic Docs: Software: Closed: Authoring Tool:	Web: **IEEE Xplore does not support audio-only or video-only media.** Electronic Docs: Software: Closed: Authoring Tool:
1.2.2 Captions (Prerecorded) (Level A)	Web: **Supports with exceptions** Electronic Docs: Software: Authoring Tool:	Web: **All IEEE *Xplore* help videos have captions. Course videos have downloadable transcripts. Conference videos are published in partnership with accessibility-first vendor Cadmore Media.** Electronic Docs: Software: Authoring Tool:
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Web: **Not Applicable** Electronic Docs: Software: Closed: Authoring Tool:	Web: **All of the information in our video tracks is already provided/conveyed in their respective audio tracks.** Electronic Docs: Software: Closed: Authoring Tool:
1.3.1 Info and Relationships (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **All of our content is presented in predictable, consistent templates.** Electronic Docs: Software: Closed:

Criteria	Conformance Level	Remarks and Explanations
		Authoring Tool:
1.3.2 Meaningful Sequence (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our content is presented in a meaningful way, including tab order.** Electronic Docs: Software: Authoring Tool:
1.3.3 Sensory Characteristics (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **We do not rely on sensory characteristics for people to use our site.** Electronic Docs: Software: Authoring Tool:
1.4.1 Use of Color (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **We do not have elements that use only color to highlight the element's purpose.** Electronic Docs: Software: Authoring Tool:
1.4.2 Audio Control (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **We do not auto play video on our site.** Electronic Docs: Software: Authoring Tool:
2.1.1 Keyboard (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **There are no elements that will cause a user to be stuck in focus.** Electronic Docs: Software: Authoring Tool:
2.1.2 No Keyboard Trap (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **There are no elements that will cause a user to be stuck in focus.** Electronic Docs: Software: Authoring Tool:
2.1.4 Character Key Shortcuts (Level A 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site does not have native character key shortcuts.** Electronic Docs: Software: Authoring Tool:

Criteria	Conformance Level	Remarks and Explanations
[2.2.1 Timing Adjustable](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **The only element that times out is authentication, which times out for everyone for security purposes. If a user stays active, authentication does not time out. Users at organizations that use IP or other automatic authentication method will not be timed out.** Electronic Docs: Software: Authoring Tool:
[2.2.2 Pause, Stop, Hide](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Only video on our site is applicable to this standard. Our video is never autoplayed and can be played, paused, and stopped at will.** Electronic Docs: Software: Authoring Tool:
[2.3.1 Three Flashes or Below Threshold](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site does not have any elements that flash.** Electronic Docs: Software: Authoring Tool:
[2.4.1 Bypass Blocks](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Each page has a Skip to Main Content option.** Electronic Docs: Software: Authoring Tool:
[2.4.2 Page Titled](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **All of our web pages have descriptive titles.** Electronic Docs: Software: Authoring Tool:
[2.4.3 Focus Order](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Focus order works as expected.** Electronic Docs: Software: Authoring Tool:
[2.4.4 Link Purpose (In Context)](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **The purpose of each link can be determined from the link text alone or from the link text.** Electronic Docs: Software:

Criteria	Conformance Level	Remarks and Explanations
		Authoring Tool:
[2.5.1 Pointer Gestures](#) (Level A 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **This concept is not applicable to our website.** Electronic Docs: Software: Authoring Tool:
[2.5.2 Pointer Cancellation](#) (Level A 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **All of our clickable elements actuate after the up-event and can be cancelled by moving away focus.** Electronic Docs: Software: Authoring Tool:
[2.5.3 Label in Name](#) (Level A 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Labels are used where appropriate. We avoid using images with text for elements that need to be actuated.** Electronic Docs: Software: Authoring Tool:
[2.5.4 Motion Actuation](#) (Level A 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **We do not have elements that are actuated by device motion or user motion.** Electronic Docs: Software: Authoring Tool:
[3.1.1 Language of Page](#) (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Our site declares lang="en-US" in the <html> element.** Electronic Docs: Software: Closed: Authoring Tool:
[3.2.1 On Focus](#) (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site does not have elements that change context on focus.** Electronic Docs: Software: Authoring Tool:
[3.2.2 On Input](#) (Level A)	Web: **Supports** Electronic Docs: Software:	Web: **Our site does not have elements that change context on input.** Electronic Docs:

Criteria	Conformance Level	Remarks and Explanations
	Authoring Tool:	Software: Authoring Tool:
3.3.1 Error Identification (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Our site does not automatically detect input errors.** Electronic Docs: Software: Closed: Authoring Tool:
3.3.2 Labels or Instructions (Level A)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **The Contact Us form is accessible.** Electronic Docs: Software: Authoring Tool:
4.1.1 Parsing (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Our website does not use duplicate ids.** Electronic Docs: Software: Closed: Authoring Tool:
4.1.2 Name, Role, Value (Level A)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Form elements on our site need more explicit assignment of name, role, and value.** Electronic Docs: Software: Closed: Authoring Tool:

Table 2: Success Criteria, Level AA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA)	Web: **Not Applicable** Electronic Docs: Software: Authoring Tool:	Web: **Our site does not host live video.** Electronic Docs: Software: Authoring Tool:
1.2.5 Audio Description (Prerecorded) (Level AA)	Web: **Not applicable**	Web: **Our site does not have audio-only content.**

Criteria	Conformance Level	Remarks and Explanations
	Electronic Docs: Software: Authoring Tool:	Electronic Docs: Software: Authoring Tool:
1.3.4 Orientation (Level AA 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site does not restrict its view and operation to a single display orientation, such as portrait or landscape.** Electronic Docs: Software: Authoring Tool:
1.3.5 Identify Input Purpose (Level AA 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site ensures that the purpose of input fields that request information about the user, such as name or email, can be programmatically determined.** Electronic Docs: Software: Authoring Tool:
1.4.3 Contrast (Minimum) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **All of our text content has a minimum contrast of at least 4.5:1.** Electronic Docs: Software: Authoring Tool:
1.4.4 Resize text (Level AA)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Text can be resized with native controls of major, supported browsers and can also be resized with custom controls on our document pages.** Electronic Docs: Software: Closed: Authoring Tool:
1.4.5 Images of Text (Level AA)	Web: **Supports** Electronic Docs: Software: Closed: Authoring Tool:	Web: **Our site does not use images of text for non-essential elements.** Electronic Docs: Software: Closed: Authoring Tool:
1.4.10 Reflow (Level AA 2.1 only)	Web: **Supports** Electronic Docs:	Web: **Our site allows for resizing of content to a minimum width of 320 CSS pixels or vertical height of**

Criteria	Conformance Level	Remarks and Explanations
	Software: Closed: Authoring Tool:	**256 CSS pixels without loss of content or functionality, and without requiring scrolling in two dimensions.** Electronic Docs: Software: Closed: Authoring Tool:
[1.4.11 Non-text Contrast](#) (Level AA 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Visual presentation of non-text content in the product has a contrast ratio of at least 3:1 against adjacent color(s).** Electronic Docs: Software: Authoring Tool:
[1.4.12 Text Spacing](#) (Level AA 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our Site supports user changes in text style properties, such as line height or text spacing, without loss of content or functionality.** Electronic Docs: Software: Authoring Tool:
[1.4.13 Content on Hover or Focus](#) (Level AA 2.1 only)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Content triggered by hover or focus becomes and remains visible while triggered, and is dismissed when hover or focus is removed.** Electronic Docs: Software: Authoring Tool:
[2.4.5 Multiple Ways](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Our site can be navigated in multiple ways, including search, browse, and tables of contents.** Electronic Docs: Software: Authoring Tool:
[2.4.6 Headings and Labels](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Headings and labels on our site are logical and clear.** Electronic Docs: Software: Authoring Tool:
[2.4.7 Focus Visible](#) (Level AA)	Web: **Supports**	Web: **Focus is known to not be visible on Other Search**

Criteria	Conformance Level	Remarks and Explanations
	Electronic Docs: Software: Authoring Tool:	**Options.** Electronic Docs: Software: Authoring Tool:
[3.1.2 Language of Parts](#) (Level AA)	Web: **Supports with exceptions** Electronic Docs: Software: Authoring Tool:	Web: **All of our pages declare <html lang="en-US">. PDFs may or may not have a language declared. Language is most likely not set in most of our author-submitted PDFs, but all metadata content is in English. All new content with a PDF (Journals, Conferences, Standards, and Books) has an HTML equivalent.** Electronic Docs: Software: Authoring Tool:
[3.2.3 Consistent Navigation](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Global navigation is persistent. Secondary navigation models, like breadcrumbs, are treated the same across templates.** Electronic Docs: Software: Authoring Tool:
[3.2.4 Consistent Identification](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **We consistently identify components having the same functionality across web pages.** Electronic Docs: Software: Authoring Tool:
[3.3.3 Error Suggestion](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Supports.** Electronic Docs: Software: Authoring Tool:
[3.3.4 Error Prevention (Legal, Financial, Data)](#) (Level AA)	Web: **Supports** Electronic Docs: Software: Authoring Tool:	Web: **Online purchase previews are available. Refunds are also available.** Electronic Docs: Software: Authoring Tool:
[4.1.3 Status Messages](#) (Level AA 2.1 only)	Web: **Partially Supports** Electronic Docs:	Web: **In most cases, status messages can be programmatically determined and presented by**

Criteria	Conformance Level	Remarks and Explanations
	Software: Authoring Tool:	**assistive technologies without receiving focus. The following exception exist:** **Some status messages are not automatically announced by the screen reader, so people who are blind and/or use a screen reader or other assistive technology may miss the status messages or they may not hear them in a timely fashion.** Electronic Docs: Software: Authoring Tool:

Table 3: Success Criteria, Level AAA

Notes:

Criteria	Conformance Level	Remarks and Explanations
1.2.6 Sign Language (Prerecorded) (Level AAA)		
1.2.7 Extended Audio Description (Prerecorded) (Level AAA)		
1.2.8 Media Alternative (Prerecorded) (Level AAA)		
1.2.9 Audio-only (Live) (Level AAA)		
1.3.6 Identify Purpose (Level AAA 2.1 only)		
1.4.6 Contrast (Enhanced) (Level AAA)		
1.4.7 Low or No Background Audio (Level AAA)		
1.4.8 Visual Presentation (Level AAA)		
1.4.9 Images of Text (No Exception) (Level AAA)		
2.1.3 Keyboard (No Exception) (Level AAA)		
2.2.3 No Timing (Level AAA)		
2.2.4 Interruptions (Level AAA)		
2.2.5 Re-authenticating (Level AAA)		
2.2.6 Timeouts (Level AAA 2.1 only)		

Criteria	Conformance Level	Remarks and Explanations
2.3.2 Three Flashes (Level AAA)		
2.3.3 Animation from Interactions (Level AAA 2.1 only)		
2.4.8 Location (Level AAA)		
2.4.9 Link Purpose (Link Only) (Level AAA)		
2.4.10 Section Headings (Level AAA)		
2.5.5 Target Size (Level AAA 2.1 only)		
2.5.6 Concurrent Input Mechanisms (Level AAA 2.1 only)		
3.1.3 Unusual Words (Level AAA)		
3.1.4 Abbreviations (Level AAA)		
3.1.5 Reading Level (Level AAA)		
3.1.6 Pronunciation (Level AAA)		
3.2.5 Change on Request (Level AAA)		
3.3.5 Help (Level AAA)		
3.3.6 Error Prevention (All) (Level AAA)		