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SMPTE Monthly Education Webcasts

• Series of monthly 60- to 90-minute online, interactive webcasts covering a variety of technical topics
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• IEEE is the world’s largest professional membership association dedicated to advancing technological innovation and excellence for the benefit of humanity.

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About SMPTE

• The Oscar® and Emmy® Award-winning Society of Motion Picture and Television Engineers® (SMPTE®), a professional membership association, is the preeminent leader in the advancement of the art, science, and craft of the image, sound, and metadata ecosystem, worldwide.

• An internationally recognized and accredited organization, SMPTE advances moving-imagery education and engineering across the communications, technology, media, and entertainment industries.
SMPTE Digital Library

- Focuses on innovative content for technologies within the communications, media, and entertainment industries.
- More than 24,000 documents in all, including unlimited full-text access to all SMPTE standards, journal articles, and conference papers.
  - More than 800 standards, including the iconic SMPTE Color Bars Television Test Patterns© with a backfile to 1964.
  - The peer reviewed SMPTE Motion Imaging Journal—more than 22,000 articles with a backfile to 1916.
  - SMPTE conference proceedings, including the Annual SMPTE Technical Conference and Exhibition—nearly 2,000 papers back to 1969.

SMPTE Standards

- Internationally recognized standards development body
- Since its founding in 1916, SMPTE has developed more than 800 standards, recommended practices, and engineering guidelines
- Focused on film and digital cinema, television, and Internet video
- SMPTE adds an average of 50 new standards annually
- Abides by the ANSI and ISO due process for initiating, approving, revising and removing standards
- Facilitates interoperability and therefore business

By providing structure, organization, and interoperability, SMPTE has helped advance the motion-imaging industry through all of the major transitions, from the advent and integration of sound and color to the shift from celluloid and analog to digital formats, including digital cinema, high-definition TV (HDTV), and 3D TV.

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SMPTE Topics

SMPTE content follows the image from “glass to glass” (from camera to television or monitor), with focus on creating and maintaining the quality of a digital image and experience from creation to display, including standardizing and enhancing methods/technology for:

- Audio
- Broadband
- Cameras
- Captions
- Compression
- Control
- Digital Cinema
- Display
- File Formats
- Film
- Image Formats
- Interfaces
- Metadata
- Networks
- Projection
- Recording
- Security
- Stereoscopic
- Subtitles
- Television
- Test & Measurement
- Time & Sync
- Wrappers

SMPTE Benefits

- Provides key research on creation and delivery of quality images from camera to display
- Opens business opportunities by using industry-accepted standardized methods
- Describes state-of-the-art workflows for content creation and distribution
- Encourages system interoperability of products within the marketplace
- Accelerates innovation by understanding the media technology landscape
- Increases productivity by providing access to previous research, avoiding redundant efforts

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IEEE Xplore complimentary content

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  • Consumer Electronics, IEEE Transactions on
  • Image Processing, IEEE Transactions on
  • Multimedia, IEEE Transactions on
  • Circuits and Systems for Video Technology, IEEE Transactions on

• Conferences
  • Annual IEEE Broadcast Symposium
  • International Conference on Image Processing

• Legacy Journals
  • Broadcast Transmission Systems, IRE Transactions on (1955 - 1958)
  • Broadcast and Television Receivers, IEEE Transactions on (1963 – 1974)

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