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## Charles Poynton – Publications

*This document lists publications. I have presented extensively; please refer to separate List of Presentations. Media productions are listed in my C.V.*

### Books

POYNTON, CHARLES (2012), *Digital Video and HD Algorithms and Interfaces*, Second edition (Waltham, Mass.: Elsevier/Morgan Kaufmann). 752 pages.

MOROVIČ, JÁN, and CHARLES POYNTON, eds. (2007), *Proc. Fifteenth IS&T/SID Color Imaging Conference* (November 5–9, Albuquerque, New Mexico).

POYNTON, CHARLES (2003), *Digital Video and HDTV Algorithms and Interfaces* (San Francisco: Morgan Kaufmann). 736 pages (reached sixth printing).

POYNTON, CHARLES (1996), *A Technical Introduction to Digital Video* (New York: John Wiley & Sons). 352 pages (reached fifth printing).

### Chapters in books

POYNTON, CHARLES (2005), "Color in digital cinema," Ch. 3 in SWARTZ, CHARLES S. (ed.), *Understanding Digital Cinema: A Professional Handbook*, (Burlington, Mass.: Focal Press).

POYNTON, CHARLES (1994), "High definition television and desktop computing," Ch. 18 in KOEGEL, JOHN F., ed., *Multimedia Systems*, (New York: ACM Press/Addison-Wesley): 383–402.

POYNTON, CHARLES (1994), "The current state of high definition television," Ch. 2 in CASABIANCA, LOU (ed.), *The New TV: A Comprehensive Survey of High Definition Television* (Westport, Conn.: Meckler): 27–40.

### Papers in peer reviewed journals

POYNTON, CHARLES (2014, forthcoming), "Contrast, brightness, CONTRAST, and BRIGHTNESS," accepted for publication in *SMPTE Motion Imaging Journal*.

POYNTON, CHARLES and FUNT, BRIAN (2014, Feb.), "Perceptual uniformity in digital imaging representation and display," *Color Research & Application* **39** (1): 6–15.

POYNTON, CHARLES (2007, July), "Wide-gamut displays," in *Information Display* **23** (7): 10–15.

POYNTON, CHARLES (2004, July), "Displays for HDTV," in *Information Display* **20** (7): 22–25.

POYNTON, CHARLES (1993, Dec.), "Gamma and its disguises," in *SMPTE J.* **102** (12): 1099–1108.

Refereed conference papers

POYNTON, CHARLES (1998), "Luminance, luma, and the migration to DTV, ATV, and HDTV," in *Proc. SMPTE Advanced Motion Imaging Conf.* (Toronto, Feb. 6).

POYNTON, CHARLES (1996), "Motion portrayal, eye tracking, and emerging display technology," in *Proc. 30th SMPTE Advanced Motion Imaging Conference*: 192–202 (Seattle, Wash., Feb. 1–3).

POYNTON, CHARLES (1995), "A Guided tour of color space," in *New Foundations for Video Technology, Proc. 29th SMPTE Advanced Television and Electronic Imaging Conf.*: 167–180 (San Francisco, Feb.).

POYNTON, CHARLES (1992), "A Tutorial on picture and sound compression," in *Proc. 26th Annual SMPTE Advanced Television and Electronic Imaging Conf.*: 46–57 (Feb. 7–8).

POYNTON, CHARLES (1990), "A Tutorial on magic numbers for high definition electronic production," in *Proc. 132nd SMPTE Technical Conference* (Orlando, Fl., Oct. 13 – 17, Preprint No. 132-119).

POYNTON, CHARLES (1990), "HDTV for computer workstations," in *Proc. 24th SMPTE Television Conf.*: 197–203 (*Television: Merging Multiple Technologies*, Jan.).

Conference papers  
(unferereed)

POYNTON, CHARLES (2010), "Image quality, signal processing, and the preservation of creative intent," in *Proc. Fourth International Workshop on Image Quality and its Applications, IMQA 2010*: 1–5 (Tokyo, May 13–14).

POYNTON, CHARLES (2010), "Wide-gamut image capture," in *Proc. CGIV 2010 – Fourth European Conf. on Colour in Graphics, Imaging*: 471–482 (Joensuu, Finland, June 14–18).

POYNTON, CHARLES (2009), "Perceptual uniformity in digital imaging," in *Proc. Gjøvik Color Imaging Symposium 2009*: 102–109 (Gjøvik, Norway, June 19).

POYNTON, CHARLES (2004), "Color issues for display system designers," Paper 5.3 in *Proc. SID ADEAC*: 22–25 (Ft. Worth, Texas, Oct. 25–29).

POYNTON, CHARLES (2000), "High visual realism: Does it help storytelling?," in *Proc. Inter BEE 2000 Symposium* (Tokyo, Nov.).

- POYNTON, CHARLES (1998), "The rehabilitation of gamma," in *Proc. SPIE 3299*: 232–249 (*Human Vision and Electronic Imaging III* (San Jose, Calif., Jan. 26–29)).
- POYNTON, CHARLES (1995), "Outlook for home use video terminals," in *Broadcasting in the Multimedia Age (Proc. International Broadcasting Symposium '95)*: 285–290 (Tokyo, Japan, Nov. 13–15).
- POYNTON, CHARLES (1994), "Wide gamut device-independent colour image interchange," in *Conf. International Broadcasting Convention 1994* (IEE Conference Publication No. 397): 218–222.
- POYNTON, CHARLES (1993), "High definition television and desktop computing," in *Proc. International Technical Workshop on Multimedia Technologies in the HDTV Age*, IEEE CES Tokyo Chapter (Jul. 20); also published as Ch. 18 in KOEGEL, JOHN F. (ed.) (1994), *Multimedia Systems* (New York: ACM Press/Addison-Wesley).
- POYNTON, CHARLES (1993), "Technology for accurate color," in *Proc. SMPTE Advanced Television and Electronic Imaging Conf.*: 186–200 (*Advanced Television and Electronic Imaging for Film and Video*, New York, Feb. 5–6).
- POYNTON, CHARLES (1992), "Overview of TIFF 5.0," in *Image Processing and Interchange: Implementation and Systems* (Proc. SPIE **1659**): 152–158 (San Jose, Calif., Feb.).
- POYNTON, CHARLES (1990), "HDTV and the computer industry," in *TVHD/90/HDTV – Proc. Fourth Annual Colloquium on Advanced Television Systems*: 2A.6.1–2A.6.10 (Ottawa, Jun. 25–29).
- Published book reviews
- POYNTON, CHARLES (2005), Book review of *Display Interfaces: Fundamentals and Standards*, in *Color Research and Application* **30** (1): 73–74 (Feb.).
- Technical reports
- POYNTON, CHARLES (2014), *Additive RGB and Color Light Output (CLO)*, white paper for Epson.
- POYNTON, CHARLES (2010–2012), *Poynton's Vector*, Issues 1–18, series of 1000-word columns concerning display technology and calibration published by SpectraCal, LLC.
- POYNTON, CHARLES (2005), *Sensing Color with the TCS230*, white paper for TAOS, Inc.
- POYNTON, CHARLES (1998), *Merging computing with studio video: Converting between R'G'B' and 4:2:2*, white paper for Discreet Logic.
- Popular press
- PARISH, TOM (2013), *Charles Poynton: Display Technology & Calibration – What stays the same and what will change for mastering 4k and 8k UHD media*, interview/podcast.

SLATER, JIM (2004, Nov.), "Charles Poynton Workshop," in *Image Technology* **86** (6): 17.

MARSHALL, PETER (1997, Nov./Dec.), "The BKSTS Charles Poynton Digital video technology seminar," in *Image Technology* **79** (10): 20.

POYNTON, CHARLES (1990, June), "Still holding for HDTV," in *Computer Graphics World* **13** (6): 126.

#### Published interviews

SCURI, PIERA (1992, Apr.), "Illuminazione and color science (Lighting and Color Science)," in *Flare Architectural Lighting Magazine* (6): 14–25 [Italian and English].

MILLIMETER MAGAZINE (1991, Aug.), *Profile: Charles Poynton*.

SHANDLE, JACK (1990, June), "HDTV: Looking good as a CAD/CAM Standard," in *Electronics Magazine*: 70–71.

UNIX WORLD (1990, Apr.), "Benefits of HDTV standards for workstations": 105–106.

SCHUBIN, MARK (1990, Apr.), "Politics, numerology, and HDTV," in *Videography*: 27–30.

JEROME, LAWRENCE (1990, Jan.), "HDTV: Television with more resolution than a hi-res monitor," in *Sun Observer*: 20–21.

ROBERTSON, BARBARA (1990, Jan.), "The Tangled web of HDTV," in *Computer Graphics World*: 52–62.

FRENKEL, KAREN (1989, Nov.), "HDTV and the computer industry," in *Comm. ACM*: 1301–1312.

EDN (1989, Dec. 14), "Why you should care about HDTV," S46–S48.

CRIPPS, DALE (1989, June/July), "HDTV and the computer industry," in *HDTV Newsletter*: 15–16.

CANADIAN ELECTRONICS ENGINEER (1984, May), "NASA TV": 18, 40. ■■