CURRICULUM VITAE

Sophie Triantaphillidou, PhD

Contact Details

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Employment

- April 2024 – present: Adjunct Professor, Norwegian Univeristy of Science & Technology (NTNU), Norway.
- August 2024 – present: Professor Emerita, University of Westminster, London, UK.
- Aug 2020 – July2023: Professor in Imaging Science and Computational Vision, School of Computer Science & Engineering, University of Westminster, London, UK.
  Research Group Director, Leader UG Final Year Project for all CSE School courses, UG & PG teaching
- Aug 2014 – Jul 2020: Reader in Imaging Science, School of Computer Science & Engineering, University of Westminster, London, UK.
- Sep 2005 – Jul 2014: Principal Lecturer in Imaging Science, School of Media, Arts and Design, University of Westminster, London, UK.
- Jul 2003 – Aug 2005: Lecturer in Imaging Science, School of Communication, University of Westminster, UK.
- May 1996 – Jun 2003: Research Associate, School of Communication, University of Westminster, London, UK.
- Oct 1992 – Jul 1995: Library Assistant, SOAS, University of London, London, UK.
- Sep 1985 – Feb 1992: Software Developer, Control Data Inc., Athens, Greece.

Post-School Education

- 1996-2001: PhD Image Science, University of Westminster, London, UK.
- 1992-1995: BSc Photographic and Electronic Imaging Science, First Class Honours, University of Westminster, London, UK.
- 1990-1991: Certificate in Photographic Arts and Practice, Photography Circle Institute, Athens, Greece.
- 1983-1985: Diploma Computer Science, Grade: A, Control Data Greece Inc., Athens, Greece.

Languages

Greek (mother tongue), English (professional) and French (advanced).

Current Research Interests

- Perceptual image quality measurement and modelling.
- Digital imaging system performance and imaging system modelling.
- Applied human vision.
- Image quality for deep learning systems.

Academic Program Design & Leadership

- MSc Imaging Arts|Science, University of Westminster, program design and validation, science pathway leader (not launched)
- BSc Photography and Digital Imaging, science pathway leader, 2003-2015.
- BSc Clinical Photography, University of Westminster, program design and validation 2007-8, program leader 2008-2013.
- MSc Digital Imaging, University of Westminster, program leader 2004-2007.

Academic Teaching Experience (sample courses)

- BSc Year 1: Introduction to Imaging Technologies, Mathematics for Imaging, Trends in Computer Science, Mathematics for Computing.
- BSc Year 2: Imaging Science Principles, Introduction to Colour Science, MATLAB Programming.
- BSc Year 3: (final year): Advanced Colour Imaging, Advanced Imaging System Performance & Image Quality, Final Year Project supervision (100+ projects)
- MSc: Colour Image Science, Imaging System Performance, Image Quality, Spatial Vision, Imaging Technologies, PG Research Skills, Final Project supervision (35+ projects).

MPhil & PhD Research Supervision

- Igor Barbosa, *Joint optimisation of LED panel light output and Colour Correction for Virtual Production applications,* University of Westminster, UK, p/t. Second supervisor.
- Mobina Mobini, *Image quality and scene content, NTNU,* Norway, f/t. Second supervisor.
- Nikola Plavac, *Influence of Imaging Pipeline on the Performance of Computer Vision Task*s, NTNU, Norway, f/t. Second supervisor.
- Pooryaa Cheraaqee, *Image quality for deep learning,* University of Westminster, UK, f/t. First supervisor.
- Christian Pacurar, *Automated film audio description generation*, University of Westminster, UK, completed November 2024, Second supervisor.
- O. Van Zwanenberg, *Modulation Transfer Function determination from pictorial scenes,* completed March 2022, f/t. First supervisor.
- E. Fry, *Bridging the gap between image quality and system performance,* completed February 2020, f/t. First supervisor.
- H. Asaturyan, *Automatic pancreas segmentation and 3D reconstruction,* completed February 2021, f/t. Second supervisor.
- E. Allen, *Image quality metrics for image compression,* PhD completed March 2017. First supervisor.
- A. Tsifouti, *Image usefulness of surveillance imagery*, PhD completed March 2016. First supervisor.
- J.Y. Park, *Image appearance with changes in display conditions and scene content*, PhD completed March 2014. First supervisor.
- H. K. Oh, *Scene classification with respect to image quality measurements.* MPhil completed December 2014. First supervisor.

PhD Examinations

- *Advancing Automatic Brain Tumour Segmentation Using Multi-Modal MRI,* PhD student: Rim El Badaoui, director of study: Barbara Villarini, University of Westminster, UK, 2025.
- *Objective and subjective quality assessment of 360-degree,* PhD student: Abderrezzaq Sendjasni, director of study: C. Larabi, University of Poitier, France & Norwegian University of Science and Technology, Norway joint, 2023.
- *Dataremix: Aesthetic experiences of big data and visual data abstraction*, PhD student: Ruth West, director of study, N. White, University of Westminster, UK, 2022.
- *Context-aware predictive process monitoring modelling,* PhD student: Oluniyi Ogunbiyi, director of study: A. Basukowski, University of Westminster, UK, 2022.
- *Instruments for image quality estimation,* PhD student: Toni Virtanen, director of study: J. Häkkinen, University of Helsinki, Finland, 2020.
- *Optimising spectral and 3D imaging for cultural heritage documentation using consumer imaging systems,* PhD student: Keats Webb, director of study: R. Evans, University of Brighton & UCL, UK, 2019.
- *Multi-modality quality assessment for unconstrained biometric samples*, PhD student: Xinwei Liu, director of study: M. Pedersen, Norwegian University of Science and Technology, Norway, 2018.
- *Evaluation of optimisation techniques for multiscopic rendering,* PhD student: G. Todorov, director of studies: A. Aggoun, University of Bedfordshire, UK, 2016.
- *Digital anthropology and educational eGames. Learning through behavioral patterns in digital, game-based contexts,* PhD student Daniel Burgos Solans, director of studies: T. Corby, University of Westminster, UK, 2016.
- *New colour scales based on saturation, vividness, blackness and whiteness,* PhD student: Yoon Ji Cho, director of studies: R. Luo, University of Leeds, UK, 2014.
- *Modelling and tracking objects with a topology preserving self-organising neural network,* PhD student: Anastasia Angelopoulou, director of studies: A. Psarrou, University of Westminster, UK, 2012.
- *Visual region understanding: unsupervised extraction and abstraction,* PhD student: Gaurav Gupta, director of studies: A. Psarrou, University of Westminster, UK, 2012.
- *Content-based, no reference image quality metrics,* PhD student: F. Marini, director of studies: R. Schettini, University of Milano-Bicocca, Italy, 2011.
- *Development of an image dependent colour management system*, PhD student: Z. Wang, director of studies: R. Luo, University of Leeds, UK, 2008.

Sample Industry & State Collaborations

- Jun 2018 – Apr 2020: Huawei Ltd, China, 2 x consecutive research contracts on *mobile camera phone image quality*.
- Jan – April 2019: SpectralEdge, UK, consultancy contract on *imaging performance of RGB-IR image fusion for CCTV systems*.
- Nov 2011 – Oct 2016: DSTL, Ministry of Defense, UK, research contract on *spatial visual models for image quality modelling*.
- Mar 2009 – Apr 2011: Nokia UK, 2 x consecutive research contracts on *visual video quality of camera phone*.
- Jul –Aug 2008: Home Office & Transport for London, UK, consultancy contract and PhD collaboration on *test imagery and quality evaluation for CCTV systems*.
- Aug – Dec 2001: National Library of the Netherlands, freelance contract on *image digitization & archiving*.

Technical Book Authorships

- Co-Editor and principal co-author, *The Manual of Photography*, 10th Edition, Focal Press (Elsevier), UK, 2011. Authored chapters: Light theory, Intro to colour science, Image storage and archiving, Intro to image quality and system performance, Digital image formats, Tone reproduction, Digital colour reproduction.
- Co-Author, *Langford Advanced Photography*, 7th Edition, Focal Press (Elsevier), UK, Jan 2008, and 8th Edition, 2011. Contribution to chapters: Tone control, Digital imaging systems, Films – type and technical data, Extending photography, Reproduction and archiving.

Awards

- Service Award for "significant contribution to the London Imaging Meeting 2021: Imaging for Deep Learning" as General Conference Chair, Society of Imaging Science & Technology, 2022.
- Best women at the University of Westminster 2021 award, 2021.
- Service Award for "significant contributions to Image Quality & System Performance conference as conference co-Chair, 2012-2015", Society of Imaging Science & Technology, 2016.
- Davies Medal for "significant contribution to digital imaging science", The Royal Photographic Society, 2012.
- Selwyn Award for "successful imaging science researcher under the age of 35 years", The Royal Photographic Society, 2000.
- WD Wright Travel Award for "best student paper of the year", the Colour Group of Great Britain, 1998.

Professional Qualifications & Fellowships

- Senior Fellow of the Higher Education Academy (currently Advance HE), 2016.
- Fellow of The Royal Photographic Society, 2004.
- Accredited Senior Image Scientist, The Royal Photographic Society, 2004.

Memberships

- Member, BCS, 2021-present.
- Member, IEEE, 2019-present.
- IEEE P2020 Automotive Imaging, Working Group Member, Jan 2018-present.
- Member, SPIE, 2007-present.
- Member, Colour Group of Great Britain, 2006-2021.
- Member, Imaging Science & Technology (IS&T), USA, 1999-present.

Committees & Boards

- Member and Trustee, Colour Group Great Britain, UK, May 2024 – present.
- Vice President for Conferences and Executive Board Member, Society of Imaging Science & Technology, USA, Jul 2021-Jun-2025.
- Vice President and Executive Board Member, Society of Imaging Science & Technology, USA, Jul 2019-Jun-2021.
- Research Ethics Board Member, University of Westminster, UK 2021-2023.
- Panel Member, Imaging Scientist Qualifications, The Royal Photographic Society, UK, Jan 2020-present.
- Editorial Board Member, Journal of Electronic Imaging, SPIE, March 2021- present.
- Editorial Board Member, University of Westminster Press, May 2015-July2023.
- Editorial Board Member, Imaging Science Journal, Maney Publishing, Jan 2011-present.
- Member, Science Committee, The Royal Photographic Society, UK, Oct 2016-2021.
- Chair, Society of Imaging Science & Technology Honors and Awards Committee, USA, term 2018/19.

- Imaging Science Group Committee, The Royal Photographic Society, UK, Chair Oct 2007 - Oct 2010, Vice Chair Oct 2005 – Oct 2007, Committee Member 2004-2021.

Technical Programme Committees

- *IS&T London Imaging Meeting:* General Chair 2021, Steering Committee, Sept 2021- present.
- *AIC 2013, AIC2021*, Scientific Programme Committee, The International Colour Association, 2013, 2021.
- *IS&T/SPIE Electronic Imaging: Color Imaging conference*, Technical Programme Committee, Jan 2017-2025.
- *IS&T/SPIE Electronic Imaging: Image Quality and System Performance conference*, co-Chair, Jan 2012 – Jan 2015, Technical Programme Committee, Jan 2010 – 2025.
- *ICIS* Technical Programme Committee & UK Rep, Feb 2008 – 2012.
- *Imaging/Art/Science symposia,* Organiser and co-Chair, RPS Imaging Science Group, 2014, 2016, 2018.
- *Digital Futures conference*, co-Chair, RPS Imaging Science Group, Oct 2004 – 2009.

Reviewer

- IEEE: Transactions on Image Perocessing
- Elsevier: Signal Processing Image Communication
- IS&T: Journal of Imaging Science and Technology
- SPIE: Journal of Electronic Imaging
- OPTICA: Journal of Optical Society of America A, Optics Express
- Wiley-IS&T books & book proposals relating to Electrical Engineering & Engineering Technology
- UKRI and Norway Research Councils

Publications

- Plavac, N., Amirshahi, S. A., Pedersen, M. and Triantaphillidou S. (2024) Performance of Automatic License Plate Recognition Systems on Distorted Images, IS&T Journal of Imaging Science & Technology, https://doi.org/10.2352/J.ImagingSci.Technol.2024.68.6.060401
- Plavac, N., Amirshahi, S. A., Pedersen, M. and Triantaphillidou S. (2024), *The Influence of Read Noise on Automatic License Plate Recognition*, accepted IS&T *London Imaging Meeting 2024*, https://doi.org/10.2352/lim.2024.5.1.3
- Psarrou, A., Triantaphillidou, S., Feisal, I. and van Zwanenberg, O. (2023), *A framework for the metrification of input image quality in deep networks,* in Electronic Imaging *2023, pp 307-1 - 307-7,* https://doi.org/10.2352/EI.2023.35.8.IQSP-307
- Jarvis J., Triantaphillidou S., Farias M. and Jenkin R. (2023) *Editorial: Scene-dependent image quality and visual assessment, Front. Neurosci.* 17:1205341. https://doi.org/10.3389/fnins.2023.1205341
- van Zwanenberg, O., Triantaphillidou, S. and Jenkin, R. (2023), *A tool for deriving camera spatial frequency response from natural scenes (NS-SFR),* in Electronic Imaging, *pp311-1-311-6,* doi.org/10.2352/EI.2023.35.8.IQSP-311
- Jarvis, J., Triantaphillidou, S. and Gupta, G. (2022), *Contrast discrimination in images of natural scenes*, Journal of the Optical Society of America A. 39 (6), pp. B50-B64, https://doi.org/10.1364/JOSAA.447390
- van Zwanenberg, O., Triantaphillidou, S., Jenkin, R. and Psarrou, A. (2021), *Estimation of ISO12233 Edge Spatial Frequency Response from Natural Scene Derived Step-Edge Data*, Journal of Imaging Science and Technology, 65 (6), pp. 60402-1-60402-16. https://doi.org/10.2352/j.imagingsci.technol.2021.65.6.060402
- van Zwanenberg, O., Triantaphillidou, S., Psarrou, A. and Jenkin, R, (2021), *Analysis of Natural Scene Derived Spatial Frequency Responses for Estimating Camera ISO12233 Slanted-edge Performance*, Journal of Imaging Science and Technology, 65 (6), pp 60405-1 – 60405-12. https://doi.org/10.2352/j.imagingsci.technol.2021.65.6.060405
- van Zwanenberg, O., Triantaphillidou, S., Jenkin, R. and Psarrou, A. (2021), *Natural Scene Derived Camera Edge Spatial Frequency Response for Autonomous Vision Systems*, IS&T London Imaging Meeting 2021, https://doi.org/10.2352/issn.2694-118X.2021.LIM-88
- Triantaphillidou, S., Smejkal, J., Fry E. W. S., Hung C. H. (2020), *Studies on the effect of MegaPixel sensor resolution on displayed image quality and relevant metrics*, IS&T Electronic Imaging Symposium: Image Quality & System Performance conference, San Francisco, California, USA, https://doi.org/10.2352/ISSN.2470-1173.2020.9.IQSP-170
- van Zwanenberg, O., Triantaphillidou, S., Jenkin, R. and Psarrou, A. (2020), *Camera System Performance Derived from Natural Sciences,* IS&T Electronic Imaging Symposium: Image Quality & System Performance conference,

San Francisco, California, USA. ***(Best conference paper award)***, https://doi.org/10.2352/ISSN.2470-1173.2020.9.IQSP-241

- Fry, E. W. S., Triantaphillidou, S., Jenkin, R. B., Jacobson, R. E. and Jarvis, J. R. (2020), *Noise Power Spectrum Scene-Dependency in Simulated Image Capture Systems,* In: IS&T Electronic Imaging Symposium: Image Quality & System Performance conference, San Francisco, California, USA, https://doi.org/10.2352/ISSN.2470-1173.2020.9.IQSP-345
- Fry, E. W. S., Triantaphillidou, S., Jenkin, R. B., Jacobson, R. E. and Jarvis, J. R. (2019), *Scene-and-Process-Dependent Spatial Image Quality Metrics*, Journal of Imaging Science & Technology, 9, 60407-1-60407-13, https://doi.org/10.2352/J.ImagingSci.Technol.2019.63.6.060407
- Fry, E. W. S., Triantaphillidou, S., Jenkin, R. B., Jacobson, R. E. and Jarvis, J. R. (2019), *Validation of Modulation Transfer Functions and Noise Power Spectra from natural scenes*, Journal of Imaging Science & Technology, 9, 60406-1-60406-11, https://doi.org/10.2352/J.ImagingSci.Technol.2019.63.6.060406
- Van Zwanenberg, O., Triantaphillidou, S., Jenkin, R. and Psarrou, A. (2019), *Edge detection techniques for quantifying spatial imaging system performance and image quality*, ACM/IEEE *Conference on Computer Vision and Pattern Recognition* (IEEE/ CFV CVPR 2019). Long Beach, California 15 – 21 Jun 2019, https://doi.org/10.1109/CVPRW.2019.00238
- Triantaphillidou, S., Jarvis, J. R., Psarrou, A. and Gupta, G. (2019) *Contrast sensitivity in images of natural scenes*, Signal Process Image, Signal Processing: Image Communication, 75, pp. 64-75, https://doi.org/10.1016/j.image.2019.03.002
- Triantaphillidou, S., Fry, E., Sanchis, V. and Pons, A. (2018) *Image Quality Loss and Compensation for Visually Impaired Observers*. In: IS&T Electronic Imaging Symposium: Human Vision & Electronic Imaging conference, San Francisco, California, USA, https://doi.org/10.2352/issn.2470-1173.2018.12.iqsp-365
- Fry, E., Triantaphillidou, S., Jacobson, R., Jarvis, J. and Jenkin, R. B. (2018), *Bridging the Gap Between Imaging Performance and Image Quality Measures.* In: IS&T Electronic Imaging Symposium 2018 – Image Quality System Performance XV, San Francisco, CA, USA. ***(Best student paper award)***, https://doi.org/10.2352/ISSN.2470-1173.2018.12.IQSP-231
- Branca, R., Triantaphillidou, S. and Burns, P.D. (2017), *Texture MTF from images of natural scenes.* In: Electronic Imaging: Image Quality and System Performance XIV, 29 Jan 2017 to end of 02 Feb 2017, San Francisco, California, USA, https://doi.org/10.2352/ISSN.2470-1173.2017.12.IQSP-255
- Tsifouti A, Triantaphillidou S., Larabi M-C, Bilissi E. and Psarrou A. (2015), *A case study in identifying acceptable bitrates for human face recognition tasks*, *Signal Processing: Image Communication,* 36, 14, https://doi.org/10.1016/j.image.2015.05.002
- Tsifouti A, Triantaphillidou S., Larabi M-C, Bilissi E. and Psarrou A. (2015), *The effects of scene content parameters, compression, and frame rate on the performance of analytics systems,* Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XII, V.9396, 93960X, https://doi.org/10.1117/12.2083426
- Fry E., Triantaphillidou S., Jarvis J. and Gupta G. (2015), Image quality optimization, via application of contextual contrast sensitivity and discrimination functions, Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XII, V.9396, 93960K, https://doi.org/10.1117/12.2082937
- Tsifouti A, Triantaphillidou S., Larabi M-C, Bilissi E. and Psarrou A. (2015), *Comparative performance between human and automated face recognition systems, using CCTV imagery, different compression levels and scene parameters,* Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XII, V.9396, 93960M, https://doi.org/10.1117/12.2083325
- Park J.Y., Triantaphillidou S. and Jacobson R.E. (2014), *Just noticeable differences in perceived image contrast with changes in displayed image size*, Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XI, V.9016, 8621oB, https://doi.org/10.1117/12.2042534
- Allen E., Triantaphillidou S. and Jacobson R.E. (2014), *Perceptibility and acceptability of JPEG 2000 compressed images of various scene types*, Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XI, V.9016, 90160W, https://doi.org/10.1117/12.2042582
- Triantaphillidou S, Jarvis J. and Gupta G. (2014) *Spatial contrast sensitivity and discrimination in pictorial images,* Proc. IS&T/SPIE Electronic Imaging: Image Quality & System Performance XI, V.9016, 86111A, https://doi.org/10.1117/12.2040007
- Triantaphillidou S., Jarvis J., Gupta G. and Rana H. (2013) *Defining human contrast sensitivity and discrimination from complex imagery,* Proc. SPIE 8901 Optics and Photonics for Counterterrorism, Crime Fighting and Defence IX; and Optical Materials and Biomaterials in Security and Defense Systems Technology X, 89010C, https://doi.org/10.1117/12.2029194
- Triantaphillidou S, Jarvis J. and Gupta G. (2013) *Contrast sensitivity and discrimination of complex scenes,* Proc. IS&T/SPIE 8653 Electronic Imaging: Image Quality & System Performance X, 86530C, https://doi.org/10.1117/12.2006076

- Tsifouti A., Triantaphilldou S., Bilissi E. and Larabi M.C. (2013) *Acceptable compression levels for human face recognition from CCTV imagery,* Proc. IS&T/SPIE 8653 Electronic Imaging: Image Quality & System Performance X, 865305, ***(Best student paper award),*** https://doi.org/10.1117/12.2004140
- Gupta G., Psarrou A., Triantaphillidou S. and Park J.Y. (2012) *Visual scene busyness measures through a region growing spatial segmentation,* Proc. SPIE 8546, Optics and Photonics for Counterterrorism, Crime Fighting, and Defence VIII, 85460P, https://doi.org/10.1117/12.974760
- Park J.Y., Triantaphillidou S., Jacobson R.E. and Gupta G. (2012) *Evaluation of perceived image sharpness with changes in the displayed image size*, Proc. IS&T/SPIE 8293 Electronic Imaging: Image Quality & System Performance IX, 82930J, https://doi.org/10.1117/12.908201
- Oh K.H., Triantaphillidou S. and Jacobson R.E. (2011) *Device independent, scene dependent image quality predictions*, Proc. IS&T/SPIE 7867 Electronic Imaging: Image Quality & System Performance VIII, 78670R, https://doi.org/10.1117/12.871986
- Oh K.H., Triantaphillidou S. and Jacobson R.E., *Scene classification with respect to image quality measurements*, Proc. IS&T/SPIE 7529 Electronic Imaging: Image Quality & System Performance V, 752908, https://doi.org/10.1117/12.838302
- Mancusi F., Triantaphillidou S. and Allen E. (2010) *Multidimensional image selection and classification system based on visual feature extraction and scaling*, Proc. IS&T/SPIE 7529 Electronic Imaging: Image Quality & System Performance V, 75290A, https://doi.org/10.1117/12.838734
- Park J.Y., Triantaphillidou S. and Jacobson R.E. (2009) *Identification of image attributes that are most affected with changes in displayed image size*, Proc. IS&T/SPIE 7243 Electronic Imaging Image Quality & System Performance V, 724210, https://doi.org/10.1117/12.805844
- Oh K. H., Triantaphillidou S. and Jacobson R.E. (2009) *Perceptual image attribute scales derived from overall image quality assessments*, Proc. IS&T/SPIE 7242 Electronic Imaging: Image Quality & System Performance V, 722420C, https://doi.org/10.1117/12.805848
- Attridge G.G., Vagal G., Triantaphillidou S. and Pointer M. R. (2008) *Subjective and objective measures of colour hard copy images*, The Imaging Science Journal, 56, 163, https://doi.org/10.1179/174313108X281326
- Orfanidou M., Triantaphillidou S. and Allen E. (2008) *Predicting Compressed Image Quality Using a Modular Image Difference Model*, Proc. IS&T/SPIE 6808 Electronic Imaging: Image Quality & System Performance V, 68080F, https://doi.org/10.1117/12.766407
- Smith R., Brown K., Tighe J.F., Cohen N., Triantaphillidou S. and Macdonald L.W. (2008) *Colour Analysis and Verification of CCTV images under different lighting conditions,* Proc. IS&T/SPIE 6808 Electronic Imaging: Image Quality & System Performance V, 68080Y, https://doi.org/10.1117/12.766343
- Allen E., Triantaphillidou S., and Jacobson R.E. (2007) *Image Quality Comparison Between JPEG and JPEG2000. I. Psychophysical Measurements,* Journal of Imaging Science & Technology 51, 248, https://doi.org/10.2352/J.ImagingSci.Technol.(2007)51:3(248)
- Triantaphillidou S., Allen E. and Jacobson R.E. (2007) *Image Quality Comparison Between JPEG and JPEG2000. II. Scene Dependency, Scene Analysis, and Classification,* Journal of Imaging Science & Technology, 51, 259, https://doi.org/10.2352/J.ImagingSci.Technol.(2007)51:3(259)
- Jenkin R.B., Triantaphillidou S. and Richardson M. A. (2007) *Effective Pictorial Information Capacity as an Image Quality Metric*, Proc. IS&T/SPIE 6494 Electronic Imaging: Image Quality & System Performance IV, 64940O, https://doi.org/10.1117/12.703973
- Triantaphillidou S. and Jacobson R.E. (2004) *Measurements of the Modulation Transfer Function of Image Displays*, Journal of Imaging Science and Technology, 48, 58-65.
- Triantaphillidou S., Jacobson R.E. and Attridge G.G. (2002) *A Case Study in the Digitisation of a Photographic Collection*, The Imaging Science Journal, 50, 97.
- Jacobson R.E. and Triantaphillidou S. (2002) *Metric Approaches to Image Quality*, In book 'Colour Science: Exploiting Digital Media', Editors L. MacDonald and R. Luo, John Wiley & Sons, Chichester, UK, Chapter 18, 371.
- Triantaphillidou S. (2001) *Image Quality in the Digitisation of Photographic Collections,* PhD thesis, University of Westminster, UK.
- Triantaphillidou S. and Jacobson R.E. (2001) *A Simple Approach to Digitising a Photographic Collection*, Proc. IS&T PICS 2001, 160.
- Triantaphillidou S. and Jacobson R.E. (2000) *A Simple Method for the Measurement of Modulation Transfer Functions of Displays*, Proc. IS&T PICS 2000, 231.
- Triantaphillidou S., Jacobson R.E. and Fagard-Jenkin R.B. (1999) *An Evaluation of MTF Determination Methods for 35mm Film Scanners*, Proc. IS&T PICS 1999, 231.

- Triantaphillidou S., Jacobson R.E. and Ford A.M. (1998) *Preferred Tone Reproduction of Images on Soft Displays*, Proc. ICPS, Vol. 2. Track 3: Electronic Imaging, 204.

Invited Talks (sample)

- *Computational vs Engineering Image Quality Metrics: advantages, limitations & ways forward*, IS&T Color Imaging Conference (CIC): Challenges in Image Quality Assessment Workshop, Paris, France, November 2023
- *Spatial Frequency Response estimation from natural scene captures*, Wetzlar Network: Computational Imaging Forum, Wetzlar, Germany, May 2023.
- *Bridging the gap between image quality and image aesthetics,* ICC London meeting, London, April 2023.
- *The Art++Science|Tech Photography Curriculum,* Virtual Photography symposium, London, June 2022.
- *Replacing test charts with pictures,* IS&T Electronic Imaging Symposium: Color Imaging conference, USA, 2020.
- *Image quality for visually impaired observers,* IS&T Electronic Imaging Symposium: Color Imaging conference, USA, 2017.
- *Visual measurements from pictorial images*, All About Imaging symposium, Royal Photographic Society & University of Westminster, London, April 2012.
- *Visual manipulation,* Real Thing Photography symposium, Royal Photographic Society, London, May 2009.
- *Colour spaces for output,* Good Picture symposium, Royal Photographic Society, London, December 2005.
- *Evaluation of the Effective Pictorial Information Capacity (EPIC) metric using real scenes,* Digital Futures 2004 symposium, National Physical Laboratory, Teddington, 2005.
- *Toward a standard for scene classification with respect to image quality measurements,* Digital Futures 2004 symposium, National Physical Laboratory, Teddington, 2004.
- *Archival digital image quality, storage and migration strategies,* Good Picture symposium, RPS, London, 2003.
- *Image quality and scene analysis for image compression* Digital Futures 2003 symposium, National Physical Laboratory, Teddington, 2003.
- *Image quality in digital archives,* Remote Sensing and Photogrammetry Society symposium on Digital Archives, York, 2002.