

Curriculum Vitae

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Contact Information

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Personal Information

- Date of birth · 14th October 1971
- Place of birth · Bergen, Norway
- Nationality · Norwegian
- Languages · Norwegian (native), English (fluent), German (moderate), Italian (basic)

Work Experience

- 2016– · Professor, Dept. of Computer Science, NTNU – Norwegian University of Science and Technology
- 2012–2015 · Professor, Dept. of Computer Science and Media Technology, Gjøvik University College
- 2000–2012 · Associate Professor, Dept. of Computer Science and Media Technology, Gjøvik University College
- 1999 · Research Scientist, SINTEF Materials Technology, Oslo
- 1996–1999 · PhD student, SINTEF Materials Technology, Oslo
- 1996 · Research Scientist, FFI, Kjeller

Education

- 2008 · University pedagogics (15 ECTS credits), Gjøvik University College
- 1997–2000 · Dr. Scient. (PhD), University of Oslo, Department of Mathematics
- 1990–1994 · Siv.ing. (MSc), NTH, Department of Physics
- 1987–1990 · High school, Tranberg videregående skole, Gjøvik

Administrative Roles

- 2013–2021 · Study programme leader for Bachelor of Engineering – Computer Science
- 2017 · Member of the board of the IE faculty at NTNU
- 2016 · Member of the board of NTNU in Gjøvik
- 2012–2016 · Member of the PhD admission board of Gjøvik University College
- 2012–2015 · Elected member of the board of Gjøvik University College
- 2012–2013 · Vice Dean of Education, IMT, Gjøvik University College

Mobility

- 2005 · Four months as a visiting researcher at Università degli studi di Milano, Italy
- 1999 · Four months as a visiting researcher at EPFL – Ecole Polytechnique Federale de Lausanne, Switzerland

Awards

- 2022 · Best student paper award at IS&T CIC with Mathieu Nguyen and Jean-Baptiste Thomas
- 2015 · Best paper award at IEEE SITIS with Steven Le Moan
- 2012 · Charles E. Ives award from IS&T together with Øyvind Kolås and Alessandro Rizzi
- 2012 · Best paper award at IS&T CGIV with Gabriele Simone.
- 2012 · The regional R&D prize with the Norwegian Colour and Visual Computing Laboratory

Peer Reviewing

PhD Theses

- 2022 · Reviewer, member of the jury, and first opponent for Nicoletta Prencipe, University of Bordeaux, France
- 2018 · Reviewer, member of the jury, and opponent for Oleksandr Semeniuta, Chalmers University of Technology, Gothenburg, Sweden
- 2017 · Reviewer, member of the jury, and opponent for Syed Waqas Zamir, Universitat Pompeu Fabra, Barcelona, Spain
- 2011 · Reviewer, member of the jury, and first opponent for

Shaohua Chen, Université Paris 13, France

- 2006 · Reviewer for Davide Gadia, Università degli Studi di Milano, Italy

Journals

- 2020– · Journal of Mathematical Imaging and Vision
2016– · Signal Processing: Image Communication
2016– · Robotics and Autonomous Systems
2016– · Communications of the ACM
2016– · Sensors
2016– · IET Image Processing
2016– · Journal of Mathematics and Music
2012– · IEEE Transactions on Control Systems Technology
2011– · Signal, Image and Video Processing
2011– · EURASIP Journal on Advances in Signal Processing
2011– · Optical Engineering
2010– · Journal of the Optical Society of America A
2008– · Journal of Imaging Science and Technology
2007– · IEEE Transactions on Image Processing
2007– · Color Research and Application
2005– · Journal of Electronic Imaging
2000–2002 · Materials Science & Engineering

Conferences

- 2020–2021 · Technical programme chair, CIC (IS&T)
2019 · Short course chair and member of the organising committee, CIC (IS&T)
2013–2018 · Publication chair and member of the programme committee, CVCS (IEEE)
2011– · Reviewer, ICIP (IEEE)
2009– · Reviewer, session chair (2010), SCIA (LNCS)
2013 · Member of the technical programme committee, AIC
2010–2013 · Reviewer and member of the technical committee, EUVIP
2012 · Member of the programme committee, VISAPP
2012 · Session chair and member of the programme committee, CGIV (IS&T)
2011 · Reviewer and member of the technical programme committee, IMAGAPP
2007–2010 · Session chair and general chair (2010) for the CREATE workshops and conference
2010 · Reviewer, IWACI

- 2007 · Interactive Session Chair, CIC (IS&T/SID)
- 2007 · Session Chair, GCIS

Books

- 2016 · Reviewer for Ronny Kjelsberg, *Teknologi og vitenskap – Historie, metode, etikk og miljø*, Universitetsforlaget, Oslo, Norway
- 2010 · Reviewer for Rangaraj M. Rangayyan, Begoña Acha, and Carmen Serrano, *Color Image Processing – with Biomedical Applications*, SPIE Press, Bellingham, Washington, USA

Externally Funded Projects

- 2020–2024 · Project leader for ICVIO (Individual Colour Vision-based Image Optimisation) funded by the Research Council of Norway (RCN) over the IKTPLUSS programme
- 2019–2023 · Participating (also to the application) in the project Capsule funded by RCN over the IKTPLUSS programme
- 2016–2019 · Participating (also to the application) in the project IQ-MED funded by RCN over the IKTPLUSS programme
- 2016–2019 · Participating (also to the application) in the project MUVAPP funded by RCN over the FRINATEK/Toppforsk programme
- 2013–2017 · Sub-programme leader for the project *HyPerCept – Colour and Quality in Higher Dimensions*, funded by RCN over the SHP programme.
- 2010– · Member of CIE’s Technical Committee TC 1-82/1-97, ‘The Calculation of Colour Matching Functions as a Function of Age and Field Size’
- 2007–2013 · Member of the Quality Assurance, Evaluation and Supervision Board of the CIMET (Erasmus Mundus) International Master. With University of Saint-Etienne (France), University of Joensuu (Finland), University of Granada (Spain).
- 2007–2011 · Participating (also to the application) in the project *Perceptual image difference metrics – a unifying approach to image representation and reproduction* funded by RCN over the SHP programme
- 2007–2010 · Member of the board of the CREATE (Marie Curie)

- network and also contributed to the application. With University of the West of England (UK), University of Milan (Italy), University of Veszprém (Hungary), Université de Reims Champagne-Ardenne (France), Universitat Autònoma de Barcelona (Spain), University of Leeds (UK), University of Ulster at Belfast (UK)
- 2007–2009 · Project leader and participant (also to the application) for the project *Measuring colour with a colour acquisition system* for Tomra ASA
 - 2004–2007 · Participating (also to the application) in the project *Multispectral colour imaging* funded by RCN over the SHP programme
 - 2004–2005 · Project leader and participant (also to the application) for the industry project *Colour Calibration of an Electronic Camera System for Object Recognition* for Tomra ASA
 - 2003–2004 · Participating (also to the application) in the project *ICC3D: Interaktiv fargeomfangstilpasning, metrikker for fargeomfang og tilretteleggelse for kommersialisering* funded by Prokom
 - 2002–2003 · Participating (also to the application) in the project *Fargestyring i produksjon og presentasjon av digital video* funded by Prokom
 - 2001 · Participating (also to the application) in the project *Bare Illusjon? Fargestyring i produksjon og presentasjon av levende bilder* funded by Prokom

Teaching

- 2022– · *Programming 2* (bachelor level, twice), NTNU, lecturing, supervision, examination, grading
- 2020– · *Colour Imaging* (PhD level, twice), NTNU, one of several lecturers, supervision
- 2019–2022 · *Introduction to the Engineering Profession* (bachelor level, three times), NTNU, lecturing, supervision, examination, grading
- 2016–2020 · *Scientific Computing* (bachelor level, five times), NTNU, lecturing, course responsible, supervision, examination, grading
- 2016–2018 · *Introduction to Engineering – Computer Science* (bachelor level, three times), NTNU, lecturing, course responsible, supervision, examination, grading
- 2013–2020 · *Bachelor Thesis* (bachelor level, eight times), course

- responsible
- 2014–2017 · *Computational Image Processing* (PhD level, twice), NTNU/Gjøvik University College, lecturing and course responsible, supervising seminars and grading final papers.
- 2014–2015 · *Introduction to Engineering* (bachelor level, twice), Gjøvik University College, lecturing and supervision, examination.
- 2013–2014 · *Image Processing and Analysis* (master level, twice), Gjøvik University College, responsible for the course, lecturing, supervising student exercise classes, making and grading exams.
- 2010–2012 · *Mathematics for Signal and Image Processing* (master level, three times), Gjøvik University College, responsible for the course, and since 2011 lecturing, supervising student exercise classes, making and grading exams.
- 2009 · *Variational Image Processing* (PhD level, once), Gjøvik University College, lecturing and course responsible, supervising seminars and grading final papers.
- 2008 · *Design and Analysis of Algorithms* (master level, once), Gjøvik University College, lecturing and responsible for the course, supervising student exercise classes, making and grading exams. Part of the CIMET programme.
- 2004–2009 · *Mathematics 40: Discrete Transforms* (master level, four times), Gjøvik University College, lecturing and responsible for the course, supervising student exercise classes, making and grading exams.
- 2004 · *Fundamental Programming* (bachelor level, once), Gjøvik University College, supervising student exercise classes.
- 2002–2005 · *Compilers* (bachelor level, five times), Gjøvik University College, lecturing and responsible for the course, supervising student exercise classes, making and grading exams.
- 2001 · *Distributed Operating Systems* (bachelor level, once), Gjøvik University College, lecturing and responsible for the course, supervising student exercise classes, making and grading exams.
- 2000–2002 · *Algorithms II* (bachelor level, three times), Gjøvik University College, lecturing and responsible for the course, supervising student exercise classes, making and grading exams.

- 2000 · *Object Oriented Programming* (bachelor level, once), Gjøvik University College, supervising student exercise classes.
- 2000–2015 · Various short courses, tutorials and workshops on theoretical computer science, mathematics, \LaTeX , Python, GNU/linux, ICC3D, Emacs, Git, Matlab etc., as well as guest lectures in various courses, Gjøvik University College
- 1992–1994 · *Fundamental Physics* (bachelor level, twice), NTH, supervising student exercise classes.

Publications

Journal Papers

Mathieu Nguyen, Jean-Baptiste Thomas, and Ivar Farup. Exploring imaging methods for in situ measurements of the visual appearance of snow. *Geosciences*, 14(2), 2024.

Bilal Ahmad, Pål Anders Floor, Ivar Farup, and Casper Find Andersen. Single-image-based 3d reconstruction of endoscopic images. *Journal of Imaging*, 10(82), 2024.

Petter Sagvold, Ivar Farup, and Marius Pedersen. Spatio-temporal retinex-inspired envelopes with anisotropic diffusion. *Journal of Imaging Science and Technology*, 67(6):1–18, 2023.

Giorgio Trumpy, Casper Find Andersen, Ivar Farup, and Omar Elezabi. Mapping quantitative observer metamerism of displays. *Journal of Imaging*, 9(10):227, 2023.

Casper Find Andersen, Ivar Farup, and Jon Yngve Hardeberg. Additivity constrained linearisation of camera calibration data. *IEEE Transactions on Image Processing*, 32:3774–3789, 2023.

Bilal Ahmad, Pål Anders Floor, Ivar Farup, and Øistein Hovde. 3D reconstruction of gastrointestinal regions using single-view methods. *IEEE Access*, 11:61103–61117, 2023.

Mathieu Nguyen, Jean-Baptiste Thomas, and Ivar Farup. Measuring the optical properties of highly diffuse materials. *Sensors*, 23(15), 2023.

Mathieu Nguyen, Jean-Baptiste Thomas, and Ivar Farup. Statistical analysis of sparkle in snow images. *Journal of Imaging Science and Technology*, 66(5):050401–1–050401–11, 2022.

Colin Prieur, Antoine Rabatel, Jean-Baptiste Thomas, Ivar Farup, and Jocelyn Chanussot. Machine learning approaches to automatically detect glacier snow lines on multi-spectral satellite images. *Remote Sensing*, 14(16), 2022.

Pierre-Jean Lapray, Jean-Baptiste Thomas, and Ivar Farup. Bio-inspired multimodal imaging in reduced visibility. *Frontiers in Computer Science*, 3(737144):1–11, January 2022.

Ivar Farup. Variational anisotropic gradient-domain image processing. *Journal of Imaging*, 7(10), 2021.

Guillaume Courtier, Pierre-Jean Lapray, Jean-Baptiste Thomas, and Ivar Farup. Correlations in joint spectral and polarization imaging. *Sensors*, 21(1):6, 2020.

Ivar Farup. Individualised halo-free gradient-domain colour image daltonisation. *Journal of Imaging*, 6(11):116, 2020.

Aditya Sole, Giuseppe Claudio Guarnera, Ivar Farup, and Peter Nussbaum. Measurement and rendering of complex non-diffuse and goniochromatic packaging materials. *The Visual Computer*, 2020.

Ahmed Mohammed, Ivar Farup, Marius Pedersen, Sule Yildirim, and Øystein Hovde. PS-DeVCEM: Pathology-sensitive deep learning model for video capsule endoscopy based on weakly labeled data. *Computer Vision and Image Understanding*, page 103062, August 2020.

Pål Anders Floor, Ivar Farup, Marius Pedersen, and Øystein Hovde. Error reduction through post processing for wireless capsule endoscope video. *EURASIP Journal on Image and Video Processing*, (2020:14), 2020.

Aditya Sole, Ivar Farup, Peter Nussbaum, and Shoji Tominaga. Bidirectional reflectance measurement and reflection model fitting of complex materials using an image-based measurement setup. *Journal of Imaging*, 4(136), 2018. doi:10.3390/jimaging4110136.

Jean-Baptiste Thomas and Ivar Farup. Demosaicing of periodic and random colour filter arrays by linear anisotropic diffusion. *Journal of Imaging Science and Technology*, 62(5):050401-1-050401-8, 2018.

Joschua Thomas Simon-Liedtke and Ivar Farup. Multiscale daltonization in the gradient domain. *Journal of Perceptual Imaging*, 1(1):010503-1-010503-12, 2018.

Ahmed Mohammed, Ivar Farup, Marius Pedersen, Øystein Hovde, and Sule Yildirim. Stochastic capsule endoscopy image enhancement. *Journal of Imaging*, 4(6):75, 2018.

Emmanuel Chevallier and Ivar Farup. Interpolation of the MacAdam ellipses. *SIAM Journal on Imaging Sciences*, 11(3):1979-2000, 2018.

Steven Le Moan, Ivar Farup, and Jana Blahová. Towards exploiting change blindness for natural image processing. *Journal of Visual Communication and Image Representation*, 54:31-38, 2018.

Ahmed Mohammed, Ivar Farup, Sule Yildirim, Marius Pedersen, and Øystein Hovde. Variational approach for capsule video frame interpolation. *EURASIP Journal on Image and Video Processing*, 2018(30):1-13, 2018.

- Aditya Sole, Ivar Farup, Peter Nussbaum, and Shoji Tominaga. Evaluating an image-based bidirectional reflectance distribution function measurement setup. *Applied Optics*, 57(8):1918–1928, 2018.
- Simen Bræck, Øyvind Grøn, and Ivar Farup. The cosmic causal mass. *Universe*, 3(2):38, 2017.
- Joschua Thomas Simon-Liedtke and Ivar Farup. Using a behavioral match-to-sample method to evaluate color vision deficiency simulation methods. *J. Imaging Sci. Techn.*, 60(5):50409–1–50409–9, 2016.
- Ivar Farup. A computational framework for colour metrics and colour space transforms. *PeerJ Comp. Sci.*, 2:e48, 2016.
- Joschua Thomas Simon-Liedtke and Ivar Farup. Evaluating color vision deficiency daltonization methods using a behavioral visual-search method. *J. Vis. Commun. Image. R.*, 35:236–247, 2016.
- Ivar Farup. Hyperbolic geometry for colour metrics. *Optics Express*, 22(10):12369–12378, 2014.
- Ivar Farup. Constructing an optimal circulating temperament based on a set of musical requirements. *J. Math. Music*, 8(1):25–39, 2014.
- Gabriele Simone, Giuseppe Audino, Ivar Farup, Fritz Albrechtsen, and Alessandro Rizzi. Termite Retinex: A new implementation based on a colony of intelligent agents. *J. Electron. Imaging*, 23(1):013006, 2014. doi: 10.1117/1.JEI.23.1.013006.
- Gabriele Simone, Marius Pedersen, Ivar Farup, and Claudio Oleari. Multi-level contrast filtering in image difference metrics. *EURASIP J. Image Video Process.*, 2013(39), 2013. doi:10.1186/1687-5281-2013-39.
- Dibakar R. Pant and Ivar Farup. Geodesic calculation of color difference formulas and comparison with the Munsell color order system. *Color Res. Appl.*, 38(4):259–266, 2013.
- Dibakar R. Pant and Ivar Farup. Riemannian formulation and comparison of color difference formulas. *Color Res. Appl.*, 37(6):429–440, December 2012.
- Øyvind Kolås, Ivar Farup, and Alessandro Rizzi. STRESS: A framework for spatial color algorithms. *J. Imaging Sci. Tech.*, 55(4):040503, 2011.
- Arne M. Bakke, Ivar Farup, and Jon Y. Hardeberg. Evaluation of algorithms for the determination of color gamut boundaries. *J. Imaging Sci. Tech.*, 54(5):050502–11, 2010.
- Fabienne Dugay, Ivar Farup, and Jon Y. Hardeberg. Perceptual evaluation of color gamut mapping algorithms. *Color Res. Appl.*, 33(6):470–476, 2008.

Ivar Farup, Carlo Gatta, and Alessandro Rizzi. A multiscale framework for spatial gamut mapping. *IEEE T. Image Process.*, 16(10), 2007. doi: 10.1109/TIP.2007.904946.

Ivar Farup, Jan H. Wold, Thorstein Seim, and Torkjel Søndrol. Generating lights with specified spectral power distributions. *Appl. Optics*, 46(13):2411–2422, 2007.

Ivar Farup. Bøker på bøker – en bokorms øvelse i stabling. *Normat*, 55(1):3–7, 2007.

Hans P. Hornæs, Jan H. Wold, and Ivar Farup. Colorimetry and prime colours – a theorem. *J. Math. Biol.*, 51(2):144–156, 2005.

Jon Y. Hardeberg, Ivar Farup, and Gudmund Stjernvang. Color quality analysis of a system for digital distribution and projection of cinema commercials. *SMPTE Motion Imag. J.*, 114(4):146–151, April 2005.

Ivar Farup, Jean-Marie Drezet, and Michel Rappaz. In situ observation of hot tearing formation in succinonitrile–acetone. *Acta Mater.*, 49(7):1261–1269, 2001.

Ivar Farup and Asbjørn Mo. Two-phase modelling of mushy zone parameters associated with hot tearing. *Metall. Mater. Trans. A*, 31(5):1461–1472, 2000.

Ivar Farup and Asbjørn Mo. The effect of work hardening on thermally induced deformations in aluminium DC casting. *J. Therm. Stresses*, 23(1):47–58, 2000.

Ivar Farup, Jean-Marie Drezet, Asbjørn Mo, and Terje Iveland. Gleeble machine determination of creep law parameters for thermally induced deformations in aluminium DC casting. *J. Therm. Stresses*, 23(1):47–58, 2000.

Ivar Farup and Øyvind Grøn. Vacuum energy and inertial dragging. *Gen. Relat. Gravit.*, 28:441–449, 1996.

Conference Papers

Bilal Ahmad, Ivar Farup, and Pål Anders Floor. Anisotropic diffusion for depth estimation in shape from focus systems. In *Proceedings of the 19th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2024)*, volume 4, pages 85–89. SCITEPRESS, 2024.

Jean-Baptiste Denis Thomas, Pierre-Jean Lapray, Max Derhak, and Ivar Farup. Standard representation space for spectral imaging. In *Color and Imaging Conference*, volume 31, pages 187–192, 2023.

Luvin Munish Rago and Ivar Farup. A simple and cost effective colorimeter for characterising observer variability in colour matching experiments. In *Proc. IS&T London Imaging Meeting*, 50-54, 2023.

Ronan Dumoulin, Pierre-Jean Lapray, Jean-Baptiste Thomas, and Ivar Farup. Impact of training data on LMMSE demosaicing for colour-polarization filter array. In *16th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS)*, pages 275–280, 2022.

Bilal Ahmad, Pål Anders Floor, and Ivar Farup. 3D reconstruction of GI regions using shape-from-focus. In *Proc. SPIE, Fifteenth International Conference on Machine Vision (ICMV 2022)*, volume 12701, 2022.

Pål Anders Floor, Ivar Farup, and Marius Pedersen. 3D reconstruction of human colon from capsule endoscope images. In *CVCS*, volume 3271. CEUR Workshop Proceedings, 2022.

Bilal Ahmad, Pål Anders Floor, Ivar Farup, and Milan Kresović. 3D reconstruction of gastrointestinal regions from single images. In *CVCS*, volume 3271. CEUR Workshop Proceedings, 2022.

Bilal Ahmad, Pål Anders Floor, and Ivar Farup. A comparison of regularization methods for near-light-source perspective shape from shading. In *IEEE ICIP*, pages 3146–3150, 2022.

Luvin Munish Rago and Ivar Farup. Optimising a Euclidean colour space transform for colour order and perceptual uniformity. In *29th Color and Imaging Conference*, pages 282–287. Society for Imaging Science and Technology, 2021.

Mathieu Nguyen, Jean-Baptiste Thomas, and Ivar Farup. Investigating the Kokhanovsky snow reflectance model in close-range spectral imaging. In *29th Color and Imaging Conference*, pages 31–36. Society for Imaging Science and Technology, 2021.

Alexandra Spote, Pierre-Jean Lapray, Jean-Baptiste Thomas, and Ivar Farup. Joint demosaicing of colour and polarisation from filter arrays. In *29th Color and Imaging Conference*, pages 288–292. Society for Imaging Science and Technology, 2021.

Aldo Barba, Ivar Farup, and Marius Pedersen. An evaluation of colour-to-greyscale image conversion by linear anisotropic diffusion and manual colour grading. In *27th Color and Imaging Conference*, pages 69–74. Society for Imaging Science and Technology, 2019.

Ahmed Mohammed, Sule Yildirim, Ivar Farup, and Marius Pedersen. StereoScenNet: Surgical stereo robotic scene segmentation. In *SPIE Medical*

Imaging, volume 10951, page 109510P. SPIE, San Diego, California, United States 2019.

Ahmed Mohammed, Sule Yildirim, Ivar Farup, Marius Pedersen, and Øistein Hovde. Y-Net: A deep convolutional neural network to polyp detection. In *British Machine Vision Conference*, 2018.

Ivar Farup, Marius Pedersen, and Ali Alsam. Colour-to-greyscale image conversion by linear anisotropic diffusion of perceptual colour metrics. In *Colour and Visual Computing Symposium*. IEEE, 2018.

Carlo Gatta and Ivar Farup. Gamut mapping in RGB colour spaces with the iterative ratios diffusion algorithm. In *Electronic Imaging*, volume 2017, pages 12–20. Society for Imaging Science and Technology, 2017.

Joschua Simon-Liedtke, Ivar Farup, and Reiner Eschbach. On the edge: A scalable daltonization method focusing chromatic edges and contrast. In *Electronic Imaging*, volume 2017, pages 28–35. Society for Imaging Science and Technology, 2017.

Aditya Sole, Ivar Farup, and Peter Nussbaum. Evaluating an image based multi-angle measurement setup using different reflection models. In *Electronic Imaging*, volume 2017, pages 101–107. Society for Imaging Science and Technology, 2017.

Steven Le Moan, Marius Pedersen, Ivar Farup, and Jana Blahová. The influence of short-term memory in subjective image quality assessment. In *IEEE International Conference on Image Processing*, pages 91–95. IEEE, 2016.

Marius Pedersen and Ivar Farup. Improving the robustness to image scale of the total variation of difference metric. In *Proceedings of the 3rd International Conference on Signal Processing & Integrated Networks (SPIN)*, pages 116–121. IEEE, 2016.

Aditya Sole, Ivar Farup, and Shoji Tominaga. Image based reflectance measurement based on camera spectral sensitivities. In *IS&T International Symposium on Electronic Imaging*, pages 360.1–360.8, 2016.

Steven Le Moan and Ivar Farup. Exploiting change blindness for image compression. In *Proceedings of the 11th International Conference on Signal-Image Technology & Internet-Based Systems*, pages 89–95. IEEE, 2015.

Joschua Simon-Liedtke and Ivar Farup. Empirical disadvantages for color-deficient people. In *Proceedings of the AIC2015 Tokyo Color and Image Conference*, pages 391–394. International Colour Association (AIC), 2015.

Phil Green, Srikrishna Nuduramati, and Ivar Farup. Variability in colour matches between displays. In *Proceedings of the AIC2015 Tokyo Color and Image Conference*, pages 137–142. International Colour Association (AIC), 2015.

Emmanuel Chevallier, Ivar Farup, and Jesus Angulo. Histograms of images valued in the manifold of colours endowed with perceptual metrics. In *Geometric Science of Information*, pages 762–769. Springer International Publishing, 2015.

Ali Alsam, Ivar Farup, and Hans Jakob Rivertz. Iterative sharpening for image contrast enhancement. In Marius Pedersen and Jean-Baptiste Thomas, editors, *Proceedings of 2015 Colour and Visual Computing Symposium (CVCS)*, pages 1–4, Gjøvik, Norway, 2015. IEEE.

Aditya Sole, Ivar Farup, and Shoji Tominaga. An image-based multi-directional reflectance measurement setup for flexible objects. In *IS&T/SPIE Electronic Imaging*, pages 93980J–93980J. International Society for Optics and Photonics, 2015.

Khai Van Ngo, Jehans J Storvik, Christopher A Dokkeberg, Ivar Farup, and Marius Pedersen. QuickEval: a web application for psychometric scaling experiments. In *IS&T/SPIE Electronic Imaging*, pages 93960O–93960O. International Society for Optics and Photonics, 2015.

Joschua T Simon-Liedtke, Ivar Farup, and Bruno Laeng. Evaluating color deficiency simulation and daltonization methods through visual search and sample-to-match: SaMSEM and ViSDem. In *IS&T/SPIE Electronic Imaging*, pages 939513–939513. International Society for Optics and Photonics, 2015.

Joschua T Simon-Liedtke and Ivar Farup. Spatial intensity channel replacement daltonization (SiCharDa). In *IS&T/SPIE Electronic Imaging*, pages 939516–939516. International Society for Optics and Photonics, 2015.

Aditya Sole, Ivar Farup, and Shoji Tominaga. An image based multi-angle method for estimating reflection geometries of flexible objects. In *IS&T 22nd Color Imaging Conference*, pages 91–96. IS&T, 2014.

Marius Pedersen, Xinwei Liu, and Ivar Farup. Improved simulation of image detail visibility using the non-subsampled contourlet transform. In *IS&T 21st Color Imaging Conference*, pages 191–196. IS&T, 2013.

Dibakar R. Pant, Ivar Farup, and Manuel Melgosa. Analysis of three Euclidean color-difference formulas for predicting the average RIT-DuPont color-difference ellipsoids. In *Proceedings of AIC2013 – 12th International AIC Congress*, pages 537–540, 2013.

Marius Pedersen and Ivar Farup. Simulation of image detail visibility using contrast sensitivity functions and wavelets. In *IS&T/SID 20th Color Imaging Conference*, pages 70–75, Los Angeles, California, USA, November 2012. IS&T.

Ali Alsam and Ivar Farup. Spatial colour gamut mapping by orthogonal projection of gradients onto constant hue lines. In *8th International Symposium on Visual Computing*, pages 556–565, Rethymnon, Crete, Greece, July 2012.

Gabriele Simone, Giuseppe Audino, Ivar Farup, and Alessandro Rizzi. Termite retinex: A novel implementation based on a colony of agents. In *Proc. of the Italian Workshop on Artificial Life and Evolutionary Computation*, pages 1–11, 2012. Published on CD, isbn 978-88-903581-2-8.

Gabriele Simone and Ivar Farup. Spatio-temporal Retinex-like envelope with total variation. In *6th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 176–181, Amsterdam, The Netherlands, 2012.

Gabriele Simone, Giuseppe Audino, Ivar Farup, and Alessandro Rizzi. Termites: A Retinex implementation based on a colony of agents. In *Color Imaging XVII: Displaying, Processing, Harcopy, and Applications*, pages 82920N–82920N, 2012.

Erik Hjelmås and Ivar Farup. A common framework for scripting tutorials. In *Norsk Informatikkonferanse, NIK*, pages 219–229. Tapir Akademisk Forlag, 2011.

Marius Pedersen, Gabriele Simone, Mingming Gong, and Ivar Farup. A total variation based color image quality metric with perceptual contrast filtering. In *International conference on Pervasive Computing, Signal Processing and Applications*, Gjøvik, Norway, September 2011.

Dibakar R. Pant and Ivar Farup. CIE uniform chromaticity scale diagram for measuring performance of OSA-UCS ΔE_E and CIEDE00 formulas. In *Proceedings of EUVIP*, pages 18–23, Paris, France, July 2011.

Ali Alsam and Ivar Farup. Spatial colour gamut mapping by means of anisotropic diffusion. In *Computational Colour Imaging Workshop (CCIW)*, volume 6626 of *Lecture Notes in Computer Science*, pages 113–124, Berlin, 2011. Springer.

ABM Tariqul Islam and Ivar Farup. Spatio-temporal colour correction of strongly degraded movies. In Reiner Eschbach, Gabriel G. Marcu, and Alessandro Rizzi, editors, *Color Imaging XVI: Displaying, Processing, Harcopy, and Applications; Electronic Imaging Symposium*, volume 7866 of *Proc. SPIE*, page 78660Z, San Fransisco, CA, 2011.

Dibakar R. Pant and Ivar Farup. Riemannian formulation of the CIEDE2000 color difference formula. In *Proceedings of the 18th Color and Imaging Conference*, pages 103–108, 2010.

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