Marius Pedersen

Curriculum Vitae
December 21, 2017

Personal Data and Contact Information

Place and Date of Birth:	Lørenskog, Norway | 03 October 1983
Office address:	Gjøvik University College, P.O. Box 191, N-2802 Gjøvik, Norway
Home address:	Johan Granvins veg 12A, N-2816 Gjøvik, Norway
Phone:	+47 61 13 52 46
Cellular:	+47 93 63 43 85
email:	marius.pedersen@ntnu.no
Webpage:	http://www.ansatt.hig.no/mariusp/
Google Scholar:	h-index: 16 - citations: 742 - http://scholar.google.com/
Nationality:	Norwegian

Education

October 2011	PhD in Color imaging, **University of Oslo**, Norway Thesis title: "Image quality metrics for the evaluation of printing workflows" Academic supervisor: Prof. Jon Yngve Harbeberg and Prof. Fritz Albregtsen Industrial supervisor: Dr. Nicolas Bonnier Sponsored by Océ Print Logic Technolgies, Creteil, France
June 2007	Master of Technology in Media Technology, **Gjøvik University College**, Norway Thesis: "Importance of region-of-interest on image difference metrics" Supervisor: Prof. Jon Yngve Harbeberg and Assistant Professor Peter Nussbaum
June 2007	One-year programme in Education, **Lillehammer University College**, Norway
April 2006	Bachelor of Science in Computer Engineering, **Gjøvik University College**, Norway
June 2002	High school, Brandbu High School, Norway

Work Experience

Current Dec 2017	Professor of Color Imaging at Norwegian University of Science and Technology, Gjøvik, Norway Professor in the Norwegian Colour and Visual Computing Laboratory.
Dec 2017 Jan 2016	Associate Professor at Norwegian University of Science and Technology, Gjøvik, Norway Associate professor in the Norwegian Colour and Visual Computing Laboratory.
Dec 2015 November 2013	Associate Professor at Gjøvik University College, Gjøvik, Norway Associate professor in the Norwegian Colour and Visual Computing Laboratory.
October 2013 November 2011	Researcher at Gjøvik University College, Gjøvik, Norway Researcher in the Norwegian Color Research Laboratory.
October 2011 August 2007	PhD student at Gjøvik University College, Gjøvik, Norway PhD student in the Norwegian Color Research Laboratory.
June 2007 February 2004	Customer consultant at Telenor Customer Service, Gjøvik, Norway Internet and phone support for Telenor's customers.
February 2004 August 2003	Customer consultant for Proffice at Telenor Customer Service, Gjøvik, Norway Internet and phone support for Telenor's customers.
September 2003	Customer consultant at Nortelco Teledialog AS, Gjøvik, Norway

March 2003 | Sales for organizations.

July 2003
April 2002 | Service employeer at ISS Norge Stasjonsservice, Oslo, Norway

April 2002
June 2001 | Service employeer at Norges Statsbaner BA, Oslo, Norway

International Experience

February 2015 | Three weeks visiting researcher at Université de Bourgogne, Dijon, France

May 2014 | Two weeks visiting researcher at Université de Bourgogne, Dijon, France

November 2011
August 2007 | Stays with Océ Print Logic Technolgies, Creteil, France
On average two weeks every two months.

Projects, Consortia and Funding

2016-2020 | Participated to the application and will participate to the project as supervisor a post doctoral researcher and two phd students. MUVApp - Measuring and Understanding Visual Appearance
FRIPRO (Toppforsk) project funded by the Research Council of Norway. Total budget 24 978 000 NOK.

2016-2018 | Participated to the application and will participate to the project as supervisor to the Post-doctoral researcher - CCSF-Quality: Defining new Chromatic Contrast Sensitivity Functions for improved quality assessment and quality enhancement
FRIPRO (FRINTATEK - mobility) project funded by the Research Council of Norway. Total budget 3 178 000 NOK.

2016-2017 | Participated to the project - Development of Imaging Tools for Change Detection of Cultural Heritage Objects
Pre-project funded by the Regional Research Council Innlandet. Total budget 1 003 150 NOK.

2016 | Project leader - 3DSVis - Spectral and 3D Image Fusion for Enriched Visualization of Cultural Heritage Assets
IS-DAAD project funded by the Research Council of Norway. Total budget 60 000 NOK.

2015-2019 | Project leader - IQ-MED: Image Quality enhancement in MEDical diagnosis, monitoring and treatment
IKTPLUSS project funded by the Research Council of Norway. Total budget 16 160 000 NOK.

2015 | Project leader - Orientation selectivity in chromatic contrast sensitivity of the human visual system and its consequences on display quality
Aurora project funded by the Research Council of Norway. Total budget 50 000 NOK.

2015- | Member of Quality Assurance Board for the COSI master programme.

2014-2015 | Participated to the application and the project - HyperDerm - Imaging system prototype setup and evaluation
Pre-project funded by the Regional Research Council Innlandet. Total budget 1 000 000 NOK.

2014-2015 | Participated to the application and the project - Hyperspectral Imaging and Analysis of Ancient Manuscripts
Pre-project funded by the Regional Research Council Innlandet. Total budget 1 069 000 NOK.

2013-2014 | Project leader - Colourplay: colour science research through gameplay
Project funded by the Regional Research Council Innlandet. Total budget 956 000 NOK.

2012-2015 | CIE Division 8 reporter
R8-10 Full-Reference Image Quality Metrics: Classification and Evaluation

2014-2015 | CIE Division 8 technical committee
Contributed to TC8-12 Image and Video Compression Assessment

2012-2018 | Sub-programme leader and work package leader - HyPerCept: Color and Quality in Higher Dimensions
Strategic University College project funded by the Research Council of Norway. Total budget 33 665 000 NOK.

2012-2015 | Participated to the application and project Colour Printing 7.0: Next Generation Multi-Channel Printing.
Marie Curie Initial Training Networks (ITN) CP7.0 N-290154 funded by the European Union. Total budget 2 449 460 EUR.

2012-today | Project leader and academic coordinator master programme 3D multimedia technology
French-norwegian master programme

2007-2011 | Participated to the application and project Perceptual Image difference metrics - a unifying approach to image representation and reproduction.
Strategic University College project funded by the Research Council of Norway. Total budget 6 810 000 NOK.

Publications

Journal

Olivier Rukundo, Marius Pedersen, and Oistein Hovde. Advanced image enhancement method for distant vessels and structures in capsule endoscopy. *Computational and Mathematical Methods in Medicine*, 2017. Accepted

Marius Pedersen, Olga Cherepkova, and Ahmed Mohammed. Image quality metrics for the evaluation and optimization of capsule video endoscopy enhancement techniques. *Journal of Imaging Science and Technology*, 61(4):40402–1, 2017

Vlado Kitanovski, Reiner Eschbach, Marius Pedersen, and Jon Yngve Hardeberg. Data hiding by white modulation in color direct binary search halftones. *Journal of Imaging Science and Technology*, 61(4):40403–1, 2017

Michael Osadebey, Marius Pedersen, Douglas Arnold andKatrina Wendel-Mitoraj, and ADNI The Alzheimer s Disease Neuroimaging Initiative. Bayesian framework inspired no-reference region-of-interest quality measure for brain mri images. *Journal of Medical Imaging*, 4:4 – 4 – 16, 2017. doi: 10.1117/1.JMI.4.2.025504. URL http://dx.doi.org/10.1117/1.JMI.4.2.025504

M. E. Osadebey, Marius Pedersen, Douglas Arnold, Katrina Wendel-Mitoraj, and The Alzheimer's Disease Neuroimaging Initiative. The spatial statistics of structural magnetic resonance images: application to post-acquisition quality assessment of brain mri images. *The Imaging Science Journal*, 65(8):468–483, 2017. doi: 10.1080/13682199.2017.1369641. URL http://dx.doi.org/10.1080/13682199.2017.1369641

Michael Osadebey, Marius Pedersen, Douglas Arnold, and Katrina Wendel-Mitoraj. No-reference quality measure in brain mri images using binary operations, texture and set analysis. *IET Image Processing*, 11(9): 672–684, 2017

David Völgyes, Marius Pedersen, Arne Stray-Pedersen, Dag Waaler, and Anne Catrine Trægde Martinsen. How different iterative and filtered back projection kernels affect computed tomography numbers and low contrast detectability. *Journal of Computer Assisted Tomography*, 41(1):75–81, 2017

Reiner Eschbach and Marius Pedersen. On large local error accumulation in multilevel error diffusion. *Journal of Imaging Science and Technology*, 60(6):60403–1, 2016

Seyed Ali Amirshahi, Marius Pedersen, and Stella X Yu. Image quality assessment by comparing cnn features between images. *Journal of Imaging Science and Technology*, 60(6):60410–1, 2016

Vlado Kitanovski and Marius Pedersen. Orientation modulation for data hiding in chrominance channels of direct binary search halftone prints. *Journal of Imaging Science and Technology*, 60(5):50407–1, 2016

Osamu Masuda, Marius Pedersen, and Jon Yngve Hardeberg. Features contributing to the genuineness of portraits on banknotes. *Journal of Print and Media Technology Research*, 1(5):53 –59, Feb 2016. doi: 10.14622/JPMTR-1508. URL http://dx.doi.org/10.14622/JPMTR-1508

Dawid Mozejko, Hilde Kjernlie Andersen, Marius Pedersen, Dag Waaler, and Anne Catrine Trægde Martinsen. Image texture and radiation dose properties in ct. *Journal of applied clinical medical physics*, 17(3):408–418, 2016

Marius Pedersen, Daniel Suazo, and Jean-Baptiste Thomas. Seam-based edge blending for multi-projection systems. *International Journal of Signal Processing, Image Processing and Pattern Recognition*, 9(4):11–26, Apr 2016. doi: 10.14257/ijsip.2016.9.4.02. URL http://www.sersc.org/journals/IJSIP/vol9_no4.php. ISSN: 2005-4254 IJSIP

Ferdinand Deger, Alamin Mansouri, Philippe Curdy, Marius Pedersen, Jon Y Hardeberg, and Yvon Voisin. Statistical analysis of engraving traces on a 3d digital model of prehistoric stone stelae. *Journal of Cultural Heritage*, 17:151–158, 2016

A. Mansouri, F. Deger, M. Pedersen, J.Y. Hardeberg, and Y. Voisin. An adaptive spatial-spectral total variation approach for poisson noise removal in hyperspectral images. *Signal, Image and Video Processing*, pages 1–8, 2015. ISSN 1863-1703. doi: 10.1007/s11760-015-0806-0. URL http://dx.doi.org/10.1007/s11760-015-0806-0

P. Zhao, M. Pedersen, J-B. Thomas, and J. Y. Hardeberg. Measuring relative image contrast of projection displays. *Journal of Imaging Science and Technology*, 59(3):2030404, May/June 2015

O. Masuda, M. Pedersen, and J. Y. Hardeberg. Effects of awareness to security features on the confidence in banknotes. *Journal of Print and Media Technology Research*, IV(2):111–118, June 2015

F. Deger, A. Mansouri, M. Pedersen, J. Y. Hardeberg, and Y. Voisin. A sensor-data-based denoising framework for hyperspectral images. *Opt. Express*, 23(3):1938–1950, Feb 2015. doi: 10.1364/OE.23.001938. URL http://www.opticsexpress.org/abstract.cfm?URI=oe-23-3-1938

G. Simone, M. Pedersen, I. Farup, and C. Oleari. Multi-level contrast filtering in image difference metrics. *EURASIP Journal on Image and Video Processing*, 39(1):pp. 26, 2013. doi: 10.1186/1687-5281-2013-39. URL http://dx.doi.org/10.1186/1687-5281-2013-39

M. Pedersen and J. Y. Hardeberg. A new spatial filtering based image difference metric based on hue angle weighting. *Journal of Imaging Science and Technology*, 56:50501–1–50501–12(12), September 2012. URL http://www.ingentaconnect.com/search/article?option1=tka&value1=A+New+Spatial+Filtering+Based+Image+Difference+Metric+Based+on+Hue+Angle+Weighting&pageSize=10&index=1

M. Pedersen and J. Y. Hardeberg. Full-reference image quality metrics: Classification and evaluation. *Found. Trends. Comp. Graphics and Vision*, 7(1):1–80, 2012

M. Gong and M. Pedersen. Spatial pooling for measuring color printing quality attributes. *Journal of Visual Communication and Image Representation*, 23(5):685–696, July 2012

G. Simone, M. Pedersen, and J. Y. Hardeberg. Measuring perceptual contrast in digital images. *Journal of Visual Communication and Image Representation*, 23(3):491 – 506, 2012. ISSN 1047-3203. doi: http://dx.doi.org/10.1016/j.jvcir.2012.01.008. URL http://www.sciencedirect.com/science/article/pii/S1047320312000211

M. Pedersen, N. Bonnier, J. Y. Hardeberg, and F. Albregtsen. Attributes of image quality for color prints. *Journal of Electronic Imaging*, 19(1):011016–1–13, Jan 2010

J. Y. Hardeberg, E. Bando, and M. Pedersen. Evaluating colour image difference metrics for gamut-mapped images. *Coloration Technology*, 124(4):243–253, Aug 2008

Conference

Vlado Kitanovski and Marius Pedersen. Masking in chrominance channels of natural images data, analysis, and prediction. In *10th International Symposium on Image and Signal Processing and Analysis*, 2017

Yao Cheng, Marius Pedersen, and Guangxue Chen. Evaluation of image quality metrics for sharpness enhancement. In *10th International Symposium on Image and Signal Processing and Analysis*, 2017

Steven Le Moan and Marius Pedersen. Evidence of change blindness in subjective image fidelity assessment. In *International Conference on Image Processing*, 2017

Jacob Bauer, Marius Pedersen, Jon Hardeberg, and Rudolf Verdaasdonk. Skin color simulation review and analysis of available montecarlo-based photon transport simulation models. In *Color and Imaging Conference*, 2017

Xinwei Liu, Marius Pedersen, Christophe Charrier, and Patrick Bours. Can no-reference image quality metrics assess visible wavelength iris sample quality? In *IEEE International Conference on Image Processing*, 2017

Victor Landre, Marius Pedersen, and Dag Waaler. *Memory Effects in Subjective Quality Assessment of X-Ray Images*, pages 314–325. Springer International Publishing, Cham, 2017. ISBN 978-3-319-59129-2. doi: 10.1007/978-3-319-59129-2_27. URL https://doi.org/10.1007/978-3-319-59129-2_27

Ahmed Mohammed, Sule Yildirim, Marius Pedersen, Oistein Hovde, and Faouzi Cheikh. Sparse coded hand-crafted and deep features for colon capsule video summarization. In *IEEE International Symposium on Computer-Based Medical Systems (IEEE CBMS2017)*, 2017

Xinwei Liu, Marius Pedersen, Christophe Charrier, Patrick Bours, and Christoph Busch. The influence of fingerprint image degradations on the performance of biometric system and quality assessment. In *Biometrics Special Interest Group (BIOSIG), 2016 International Conference of the*, pages 1–6. IEEE, 2016

Xinwei Liu, Marius Pedersen, Christophe Charrier, Cheikh Faouzi Alaya, and Bours Patrick. An improved 3-steps contactless fingerprint image enhancement approach for minutiae detection. In *6th European Workshop on Visual Information Processing (EUVIP)*, 2016

Marius Pedersen, Jon Yngve Hardeberg, and Christoph Busch. Vision security–the role of imaging for observer and observed. *Electronic Imaging*, 2016(20):1–4, 2016

Osamu Masuda, Marius Pedersen, and Jon Hardeberg. Factors affecting the perceived genuineness of security documents. *Journal of Vision*, 16(12):1176–1176, 2016

B. Sdiri, A. Beghdadi, F. A. Cheikh, M. Pedersen, and O. J. Elle. An adaptive contrast enhancement method for stereo endoscopic images combining binocular just noticeable difference model and depth information. In R. Jenkin and M.C. Larabi, editors, *Image Quality and System Performance XIII*, San Francisco, CA, Feb. 2016

A.K. Kvitle, M. Pedersen, and P. Nussbaum. Quality of color coding in maps for color deficient observers. In R. Eschbach, G. Marcu, and A. Rizzi, editors, *Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications*, San Francisco, CA, Feb. 2016

Xinwei Liu, Marius Pedersen, and Christophe Charrier. Image-based attributes of multi-modality image quality for contactless biometric samples. In *Signal Processing and Integrated Networks (SPIN), 2016 3rd International Conference on*, pages 106–111. IEEE, 2016

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

M. Pedersen. Evaluation of 60 full-reference image quality metrics on the CID:IQ. In *International Conference on Image Processing*, pages 1588 – 1592, Quebec, Canada, September 2015. IEEE

P. Zhao, Y. Cheng, and M. Pedersen. Objective assessment of perceived sharpness of projection displays with a calibrated camera. In *Colour and Visual Computing Symposium (CVCS), 2015*, pages 1–6, Aug 2015. doi: 10.1109/CVCS.2015.7274892

S. Beigpour and M. Pedersen. Colour play: Gamification for colour vision study. In *AIC Midterm meeting*, Tokyo, Japan, May 2015

R. Slavuj and M. Pedersen. Multichannel dbs halftoning for improved texture quality. In G. G. Marcu R. Eschbach and A. Rizzi, editors, *Color Imaging XX: Displaying, Processing, Hardcopy, and Applications*, volume 9395 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, page 939501 939501 13, San Francisco, CA, January 2015. doi: 10.1117/12.2083373

P. Zhao and M. Pedersen. Extending subjective experiments for image quality assessment with baseline adjustments. In M-C. Larabi and S. Triantaphillidou, editors, *Image Quality and System Performance XII*, volume 9396 of *SPIE Proceedings*, page 93960R, San Francisco, CA, Feb 2015

K. Van Ngo, C. A. Dokkeberg, J. Jr. Storvik, I. Farup, and M. Pedersen. Quickeval: a web application for subjective image quality assessment,. In M-C. Larabi and S. Triantaphillidou, editors, *Image Quality and System Performance XII*, volume 9396, pages 9396–24, San Francisco, CA, Feb. 2015

S. Le Moan, S. T. George, M. Pedersen, J. Blahova, and J. Y. Hardeberg. A database for spectral image quality. In M-C. Larabi and S. Triantaphillidou, editors, *Image Quality and System Performance XI*, volume 9396, pages 9396–25, San Francisco, CA, Feb. 2015

C.G. Zewdie, M. Pedersen, and Z. Wang. A new pooling strategy for image quality metrics: Five number summary. In *Visual Information Processing (EUVIP), 2014 5th European Workshop on*, pages 1–6, Dec 2014. doi: 10.1109/EUVIP.2014.7018373

X. Wang, M. Pedersen, and J.-B. Thomas. The influence of chromatic aberration on demosaicking. In *Visual Information Processing (EUVIP), 2014 5th European Workshop on*, pages 1–6, Dec 2014. doi: 10.1109/EUVIP.2014.7018410

P. Zhao, M. Pedersen, J-B. Thomas, and J. Y. Hardeberg. Perceptual spatial uniformity assessment of projection displays with a calibrated camera. In *Color and imaging conference*, pages 159–164, Boston, MA, Nov. 2014

M. Pedersen. An image difference metric based on simulation of image detail visibility and total variation. In *Color and Imaging Conference*, pages 37–42, Boston, Ma, Nov 2014

P. Zhao, M. Pedersen, J.Y. Hardeberg, and J.-B. Thomas. Image registration for quality assessment of projection displays. In *Image Processing (ICIP), 2014 IEEE International Conference on*, pages 3488–3492, Oct 2014. doi: 10.1109/ICIP.2014.7025708

X. Liu, M. Pedersen, and J.Y. Hardeberg. CID:IQ - a new image quality database. In A. Elmoataz, O. Lezoray, F. Nouboud, and D. Mammass, editors, *Image and Signal Processing*, volume 8509 of *Lecture Notes in Computer Science*, pages 193–202. Springer, Cherbourg, France, Jul. 2014

P. Martinez-Canada and M. Pedersen. Exposure fusion algorithm based on perceptual contrast and dynamic adjustment of well-exposedness. In A. Elmoataz, O. Lezoray, F. Nouboud, and D. Mammass, editors, *Image and Signal Processing*, volume 8509 of *Lecture Notes in Computer Science*, pages 183–192. Springer International Publishing, 2014. ISBN 978-3-319-07997-4. doi: 10.1007/978-3-319-07998-1_21. URL http://dx.doi.org/10.1007/978-3-319-07998-1_21

R. Wajid, A. B. Mansoor, and M. Pedersen. A human perception based performance evaluation of image quality metrics. In *Advances in Visual Computing*, volume 8887 of *Lecture Notes in Computer Science*, pages 303–312. Springer International Publishing, 2014. ISBN 978-3-319-14248-7. doi: 10.1007/978-3-319-14249-4_29. URL http://dx.doi.org/10.1007/978-3-319-14249-4_29

F. Deger, A. Mansouri, M. Pedersen, J. Y. Hardeberg, and Y. Voisin. A variational approach for denoising hyperspectral images corrupted by poisson distributed noise. In Abderrahim Elmoataz, Olivier Lezoray, Fathallah Nouboud, and Driss Mammass, editors, *Image and Signal Processing*, volume 8509 of *Lecture Notes in Computer Science*, pages 106–114. Springer International Publishing, 2014. ISBN 978-3-319-07997-4. doi: 10.1007/978-3-319-07998-1_13. URL http://dx.doi.org/10.1007/978-3-319-07998-1_13

M. Pedersen, X. Liu, and I. Farup. Improved simulation of image detail visibility using the non-subsampled contourlet transform. In *Color and Imaging Conference*, pages 191–196, Albuquerque, NM, USA, Nov. 2013. IS&T

K. B. Raja and M. Pedersen. Artifact detection in gamut mapped images using saliency. In *The Colour and Visual Computing Symposium 2013*, page 6 p., Gjøvik, Norway, Sep. 2013. IEEE

R. Wajid, A. Bin Mansoor, and M. Pedersen. A study of human perception similarity for image quality assessment. In *Colour and Visual Computing Symposium (CVCS), 2013*, pages 1–6, Sept 2013. doi: 10.1109/CVCS.2013.6626276

P. Zhao, M. Pedersen, J.Y. Hardeberg, and J.-B. Thomas. Camera-based measurement of relative image contrast in projection displays. In *Visual Information Processing (EUVIP), 2013 4th European Workshop on*, pages 112–117, June 2013

K. B. Raja and M. Pedersen. Artifact detection for image quality estimation based on saliency. In *NOBIM conference*, Hafjell, Norway, Feb. 2013

M. Cisarova, M. Pedersen, P. Nussbaum, and F. Gaykema. Verification of proposed iso methods to measure resolution capabilities of printing systems. In P. D. Burns and S. Triantaphillidou, editors, *Image Quality and System Performance X*, volume 8653, pages 86530M–86530M–14, Burlingame, CA, Feb. 2013. doi: 10.1117/12.2001436. URL http://dx.doi.org/10.1117/12.2001436

F. Deger, A. Mansouri, M. Pedersen, J.Y. Hardeberg, and Y. Voisin. Multi- and single-output support vector regression for spectral reflectance recovery. In *Signal Image Technology and Internet Based Systems (SITIS), 2012 Eighth International Conference on*, pages 805–810, Nov 2012. doi: 10.1109/SITIS.2012.121

M. Pedersen and I. Farup. Simulation of image detail visibility using contrast sensitivity functions and wavelets. In *Color and Imaging Conference*, pages 70–75, Los Angeles, CA, November 2012

M. Pedersen, G. Simone, M. Gong, and I. 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, Sep 2011

K. Falkenstern, N. Bonnier, H. Brettel, M. Pedersen, and F. Vienot. Weighing quality attributes. In R. C. Baraas, editor, *21st symposium of the international colour vision society (ICVS)*, page 88, Kongsberg, Norway, Jul 2011. ISBN 978-82-8261-009-4

M. Pedersen, Y. Zheng, and J. Y. Hardeberg. Evaluation of image quality metrics for color prints. In A. Heyden and F. Kahl, editors, *Scandinavian Conference on Image Analysis*, volume 6688 of *Lecture Notes in Computer Science*, pages 317–326, Ystad Saltsjöbad, Sweden, May 2011. Springer-Verlag Berlin Heidelberg

M. Pedersen, N. Bonnier, J. Y. Hardeberg, and F. Albregtsen. Image quality metrics for the evaluation of print quality. In F. Gaykema and S. Farnand, editors, *Image Quality and System Performance*, volume 7867 of *Proceedings of SPIE*, pages 786702–1–786702–19, San Francisco, CA, Jan 2011.

K. Falkenstern, N. Bonnier, M. Pedersen, H. Brettel, and F. Vienot. Using metrics to assess the ICC perceptual rendering intent. In F. Gaykema and S. Farnand, editors, *Image Quality and System Performance*, volume 7867 of *Proceedings for SPIE*, pages 786706–1–15, San Francisco, CA, Jan 2011

K. Falkenstern, N. Bonnier, H. Brettel, M. Pedersen, and F. Vienot. Using image quality metrics to evaluate an ICC printer profile. In *Color and Imaging Conference*, pages 244–249, San Antonio, TX, Nov 2010. IS&T and SID

M. Pedersen, N. Bonnier, J. Y. Hardeberg, and F. Albregtsen. Validation of quality attributes for evaluation of color prints. In *Color and Imaging Conference*, pages 74–79, San Antonio, TX, USA, Nov 2010. IS&T/SID

M. Pedersen, N. Bonnier, J. Y. Hardeberg, and F. Albregtsen. Estimating print quality attributes by image quality metrics. In *Color and Imaging Conference*, pages 68–73, San Antonio, TX, USA, Nov 2010. IS&T/SID

S. A. Ajagamelle, M. Pedersen, and G. Simone. Analysis of the difference of gaussians model in image difference metrics. In *5th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 489–496, Joensuu, Finland, Jun 2010. IS&T

G. Cao, M. Pedersen, and Z. Bara czuk. Saliency models as gamut-mapping artifact detectors. In *5th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 437–443, Joensuu, Finland, Jun 2010. IS&T

M. Pedersen and S. A. Amirshahi. Framework the evaluation of color prints using image quality metrics. In *5th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 75–82, Joensuu, Finland, Jun. 2010. IS&T

M. Pedersen. Objective image quality assessment of color prints. In G. Simone, J. Y. Hardeberg, and I. Farup, editors, *The CREATE 2010 Conference*, pages 146–150, Gjøvik, Norway, Jun 2010. ISBN: 978-82-91313-46-7

G. Simone, V. Caracciolo, M. Pedersen, and F. A. Cheikh. Evaluation of a difference of gaussians based image difference metric in relation to perceived compression artifacts. In *Int. Symposium Advances in Visual Computing*, Lecture Notes in Computer Science, pages 491–500, Las Vegas, NV, Nov 2010. Springer

G. Simone, M. Pedersen, and J. Y. Hardeberg. Measuring perceptual contrast in uncontrolled environments. In *European Workshop on Visual Information Processing (EUVIP)*, pages 102–107, Paris, France, Jul 2010. IEEE

S. A. Ajagamelle, G. Simone, and M. Pedersen. Performance of the difference of gaussian model in image difference metrics. In G. Simone, A. Rizzi, and J. Y. Hardeberg, editors, *Gjøvik Color Imaging Symposium*, number 4 in Høgskolen i Gjøviks rapportserie, pages 27–30, Gjøvik, Norway, Jun 2009

M. Pedersen. 111 full-reference image quality metrics and still not good enough? In G. Simone, A. Rizzi, and J. Y. Hardeberg, editors, *Proceedings from Gjøvik Color Imaging Symposium 2009*, number 4 in Høgskolen i Gjøviks rapportserie, page 4, Gjøvik, Norway, Jun 2009

M. Pedersen, F. Albregtsen, and J. Y. Hardeberg. Detection of worms in error diffusion halftoning. In S. P. Farnand and F. Gaykema, editors, *Image Quality and System Performance VI*, volume 7242, page 72420L, San Jose, CA, USA, Jan 2009. SPIE

M. Pedersen, N. Bonnier, F. Albregtsen, and J. Y. Hardeberg. Towards a new image quality model for color prints. In *ICC Digital Print Day*, Mar 2009

M. Pedersen, N. Bonnier, J. Y. Hardeberg, and F. Albregtsen. Attributes of a new image quality model for color prints. In *Color Imaging Conference*, pages 204–209, Albuquerque, NM, USA, Nov 2009. IS&T

M. Pedersen and J. Y. Hardeberg. A new spatial hue angle metric for perceptual image difference. In *Computational Color Imaging*, volume 5646 of *Lecture Notes in Computer Science*, pages 81–90, Saint Etienne, France, Mar 2009. Springer Berlin / Heidelberg

M. Pedersen and J. Y. Hardeberg. SHAME: A new spatial hue angle metric for perceptual image difference. *Journal of Vision*, 9(8):343, 8 2009. ISSN 1534-7362

G. Simone, M. Pedersen, J. Y. Hardeberg, and I. Farup. On the use of gaze information and saliency maps for measuring perceptual contrast. In A-B Salberg, Hardeberg J. Y., and R. Jenssen, editors, *16th Scandinavian Conference on Image Analysis*, volume 5575 of *Lecture Notes in Computer Science*, pages 597–606, Oslo, Norway, Jun 2009

G. Simone, M. Pedersen, J. Y. Hardeberg, and A. Rizzi. Measuring perceptual contrast in a multilevel framework. In B. E. Rogowitz and T. N. Pappas, editors, *Human Vision and Electronic Imaging XIV*, volume 7240 of *Proceedings of SPIE*, pages 72400Q–72400Q–9, San Jose, CA, Jan 2009

B. Kominkova, J. Y. Hardeberg, M. Pedersen, and M. Kaplanova. Comparison of eye tracking devices used on printed images. In *Scandinavian Workshop on Applied Eye-tracking*, Lund, Sweden, 2008

B. Kominkova, M. Pedersen, J. Y. Hardeberg, and M. Kaplanova. Comparison of eye tracking devices used on printed images. In B. E. Rogowitz and T. N. Pappas, editors, *Human Vision and Electronic Imaging XIII*, volume 6806, page 68061, San Jose, CA, Jan 2008. doi: 10.1117/12.766231. URL http://dx.doi.org/10.1117/12.766231

M. Pedersen and J. Y. Hardeberg. Rank order and image difference metrics. In *4th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 120–125, Terrassa, Spain, Jun 2008. IS&T

M. Pedersen, J. Y. Hardeberg, and P. Nussbaum. Using gaze information to improve image difference metrics. In B. Rogowitz and T. Pappas, editors, *Human Vision and Electronic Imaging VIII*, volume 6806 of *SPIE proceedings*, page 680611, San Jose, CA, USA, Jan 2008

M. Pedersen, J. Y. Hardeberg, and P. Nussbaum. Using gaze information to improve image difference metrics. In *Scandinavian Workshop on Applied Eye-tracking*, Lund, Sweden, 2008

M. Pedersen, A. Rizzi, J. Y. Hardeberg, and G. Simone. Evaluation of contrast measures in relation to observers perceived contrast. In *CGIV 2008 - Fourth European Conference on Color in Graphics, Imaging and Vision*, pages 253–256. IS& T, 2008

G. Simone, M. Pedersen, J. Y. Hardeberg, and A. Rizzi. A multi-level framework for measuring perceptual image contrast. *Scandinavian Journal of Optometry and Visual Science*, 1(1):15, Oct 2008

Invited papers

Marius Pedersen, Jon Yngve Hardeberg, and Christoph Busch. Vision security - the role of imaging for observer and observed. In *Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications*, number 20 in Proceedings of SPIE/IS&T Electronic Imaging, pages 1–4, San Francisco, CA, USA, Feb 2016. URL http://ist.publisher.ingentaconnect.com/content/ist/ei/2016/00002016/00000020/art00032

Technical reports and other

M. Pedersen. Full-reference image quality metrics: Classification and evaluation. Reportership. DR R8-10., June 2015. 42 pages

M. Pedersen and J. Y. Hardeberg. Survey of full-reference image quality metrics. GUC reports 5, Gjøvik University College, Jun 2009. ISSN: 1890-520X

Supervised Post Docs

Darya Guarnera. NTNU, 2018-2020 (Planned start early 2018) Supervisor. To be supervised with Jon Yngve Hardeberg

Seyed Ali Amirshahi. NTNU, 2016-2019. Supervisor.

Osamu Masuda. Gjøvik University College, 2013-2015. Co-supervisor. Supervised with Jon Yngve Hardeberg (HiG)

Supervised PhD thesis

Davit Gigilashvili. "Visual appearance correlation using BRDF and image statistics". NTNU, 2017-2020 . Co-supervisor. Supervised with Jon Yngve Hardeberg

Ahmed Kedir. "Image Quality Enhancement in Capsule Video Endoscopy". Gjøvik University College/NTNU, 2016-2018 . Co-supervisor. Supervised with Sule Yildirim-Yayilgan (Gjøvik University College) and Øistein Hovde (Innlandet Hospital)

Vlado Kitanovski. "Print-and-scan optimized watermarking of colour images with minimized perceptibility". Gjøvik University College/NTNU, 2015-2017 (started November 2015). Principal supervisor. Supervised with Bian Yang (HiG)

David Völgyes. "Spectral CT imaging in virtual autopsy". Gjøvik University College/NTNU, 2015-2017 . Principal supervisor. Supervised with Dag Waaler (HiG), Anne Catrine Trægde Martinsen (Oslo University Hopsital) and Arne Stray-Pedersen (The Norwegian Institute of Public Health)

Xinwei Liu. "An Image-based Multi-Modality Biometric Image Quality Index". Gjøvik University College/NTNU, 2015-2016. Principal supervisor. Supervised with Christophe Charrier (University of Caen) and Patrick Bours (Gjøvik University College)

Ferdinand Deger. "Multimodal data analysis for the characterisation of objects acquired by a 3D multispectral scanner" Gjøvik University College, 2012-2016 (expected defense spring 2016). Co-supervisor. Supervised with Jon Yngve Hardeberg (HiG) and Alamin Mansouri and Yvon Voison (Université de Bourgogne)

Ping Zhao. "Camera Based Display Image Quality Assessment". Gjøvik University College, 2012-2015. Defended his thesis 23/11/15. Co-supervisor. Supervised with Jon Yngve Hardeberg (HiG) and Jean Baptiste Thomas (University of Burgundy)

Supervised Researchers

Sukalpa Chanda. ERCIM researcher at NTNU, 2018-2019 (starting march 2018). Supervisor.

Olivier Rukundo. NTNU, 2016-2017. Supervisor.

Mohsen Jenadeleh. NTNU, 2016. Supervisor. Supervised with Jon Yngve Hardeberg

Supervised Master Thesis

Victor Landre. Influence of viewing history on image quality assessment. NTNU, 2017. Supervisor. Co-supervised with Dag Waaler. Currently on-going.

Olga Cherepkova. Content-based image quality assessment. NTNU, 2017. Supervisor.

Davit Gigilashvili. Measuring and enhancing the quality of medical images : application to fluorescence image guided surgery using dual-axis confocal microscopy. NTNU, 2017. Co-supervisor. Supervised with Jon Yngve Hardeberg.

Yao Cheng. The Comparison of ICC v2 and v4 Profile Based on Perceptual Rendering Intent. NTNU, 2015. Supervisor. Supervised together with Phil Green and GuangXue Chen (South China University of Technology)

Matthieu Hog. Improving Refocusing Algorithms For Light Field Cameras. Gjøvik University College, 2015. Supervisor. Supervised together with Valter Drazic (Technicolor) and Alain Tremeau (University of Jean-Monnet)

Rameez Wajid. Automatic Prediction of Perceptual Image Quality. Gjøvik University College, 2015. Co-supervisor. Supervised together with Atif Bin Mansoor

Weiliang Wang. Exploring Calibration and rectification process for rendering high quality light-field imaging using Lytro camera. Gjøvik University College, 2014. Principal supervisor. Supervised together with Raghavendra Ramachandra

Daniel Suazo. Joint Contribution of Seam Carving and Edge Blending techniques to multi-projector seamlessness. Gjøvik University College, 2014. Principal supervisor. Supervised together with Jean-Baptiste Thomas (Université de Bourgogne)

Antonio Pelegrina. Evaluation of the image quality of 64-slice CT scanners from all vendors on the Norwegian market. Gjøvik University College, 2014. Supervised together with Dag Waaler (HiG), Anne Catrine Martinsen (Oslo University Hospital), and Wibeke Nordhøy (Oslo University Hospital)

Xinwei Liu. CID:IQ - a New Image Quality Database. Gjøvik University College, 2013. Principal supervisor. Supervised together with Jon Yngve Hardeberg (HiG)

Dawid Mozejko. Image texture, Uniformity, homogenity and radiation dose properties in CT. Gjøvik University College, 2013. Principal supervisor. Supervised together with Dag Waaler (HiG), Anne Catrine Martinsen (Oslo University Hospital), and Wibeke Nordhøy (Oslo University Hospital)

Yu Hui. Using Chromatic Adaptation Transforms in Image Quality Metrics. Gjøvik University College, 2012.

Milena Cisarova. Verification of proposed ISO methods to measure resolution capabilities of printing systems. Gjøvik University College, 2012. Principal supervisor. Supervised together with Peter Nussbaum (HiG) and Frans Gaykema (Océ, the Netherlands)

Gong Mingming. Spatial Pooling Methods For Color Image Quality Attributes Assessment. Gjøvik University College, 2011

Timothée Royer. Influence of Image Characteristics on Image Quality. Ecole Nationale Des Sciences Geographiques and Gjøvik University College, 2010

Sebastien Akli Ajagamelle. Analysis of the difference of Gaussians model in perceptual image difference metrics. Gjøvik University College and Grenoble Institute of Technology, 2009. Supervised with Gabriele Simone (HiG)

Valentina Caracciolo. Just Noticeable Distortion evaluation in color images. Gjøvik University College and Roma Tre University, 2009. Supervised with Gabriele Simone (HiG) and Faouzi Alaya Cheikh (HiG).

Supervised Bachelor Thesis

Jakob Michael Voigt, Lars Michael Niebuhr, Nawar Maher Behenam, and Sahand Lahafdoozian. Python Gamut Library. NTNU, 2017. Bachelor in engineering - computer science. Supervisor.

Supervised student projects

Marie Bertheleme. Image processing for polyps detection in capsule endoscopy videos. NTNU, 2017. Supervisor. Supervised with Ahmed Mohammed Kedir.

Clement Cavin and Benoit Barnoux. Colourplay - extension. NTNU, 2017. Supervisor.

Aurore Lanoix. Enhancement technique for Wireless Capsule Endoscopy images. NTNU, 2016. Supervisor.Supervised with Ahmed Mohammed Kedir.

Guilhem Zerathe and Erwan Bourrand. Colourplay - extension. Gjøvik University College, 2015. Co-supervisor. Supervised together with Peter Nussbaum

Marine Moureaux and Bastien Bettoni. Projecting on non-uniform surface. Gjøvik University College, 2014. Co-supervisor. Supervised together with Jon Yngve Hardeberg

Talks and presentations

Marius Pedersen. Bilder og farger: ser du det samme som jeg?. Juniorakademiet, Raufoss, Norway. Sep, 2017. Invited talk.

Marius Pedersen. Towards a perceptual image quality metric. Third International Conference on Signal Processing and Integrated Networks (SPIN), New Delhi, India. Feb, 2016. Invited talk.

Marius Pedersen. The murkiness of image quality assessment. Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications, San Francisco, CA, Feb., 2016.

Marius Pedersen. ColourPlay - barn og forskere leker sammen. Forum Farge 2014, Gjøvik, Norway. March, 2014

Marius Pedersen. Image quality metrics for the evaluation of printing workflows. Vitenforum at Gjøvik University College, Gjøvik, Norway. May, 2012

Marius Pedersen. Perceived Image Quality. Vigeland Museum, Oslo, Norway. Apr, 2012

Marius Pedersen. Image Quality. Seminar on Qualities and Values in Visual Media. Lillehammer, Norway. Jun, 2009

Marius Pedersen. Rank order and image difference. Colorlab Workshop: Psychophysical experiments for image quality. Gjøvik, Norway. Jun, 2008

Marius Pedersen. Web-based image quality evaluation experiments. Colorlab Workshop: Psychophysical experiments for image quality. Gjøvik, Norway. Jun, 2008

Marius Pedersen. Gaze information and image difference metrics. Colorlab Workshop: Vision, Imaging and Eye Movements. Gjøvik, Norway. Apr, 2008

Popular scientific articles

Marius Pedersen and Jose Julio Gonzalez. Bildeteknologi – for sikkerhetens skyld. Oppland Arbeiderblad. 23. september 2015.

Marius Pedersen. Førsteklasses forskning. Oppland Arbeiderblad. 25. september 2013.

Other

Eye-tracking demonstration. Opening of Universal Design Lab at Gjøvik University College 2012.
Eye-tracking for color imaging research. Workshop at Gjøvik Color Imaging Symposium 2007.

Awards

2017	Best paper award at the Image Quality and System Performance conference at Electronic Imaging, February 2017: "Image Quality Assessment by Comparing CNN Features between Images".
2012	Awarded the regional R&D prize with the Norwegian Color and Visual Computing Laboratory.
2011	Best student paper at the Image Quality and System Performance conference at Electronic Imaging, January 2011: "Image quality metrics for the evaluation of print quality".

Reviewer and editor

2014-current | Journal of Imaging Science and Technology - associate editor

2017 | International Conference on Image Processing Theory, Tools and Applications 2017 - reviewer - 2 manuscripts

2017 | International Workshop on Colour and Multispectral Imaging - reviewer - 1 manuscript

2016 | International Conference on Image and Signal Processing (ICISP) - reviewer - 3 manuscripts

2016 | International Journal of Signal and Imaging Systems Engineering - reviewer - 1 manuscript

2016 | Algorithms - reviewer - 1 manuscript

2016 | International Conference on Image Processing Theory, Tools and Applications 2016 - reviewer - 2 manuscripts

2016 | Journal of Electronic Imaging - reviewer - 1 manuscript

2015 | Signal Processing: Image Communication - reviewer - 1 manuscript

2015 | International Conference on Image Processing Theory, Tools and Applications 2015 - reviewer - 4 manuscripts

2015 | IEEE Transactions on Computational Imaging - reviewer - 1 manuscript

2015 | International Conference on Image Processing 2015 - reviewer - 5 manuscripts

2015 | Colour and Imaging Conference 2015 - reviewer - 3 manuscripts

2015 | The Colour and Visual Computing Symposium 2015 (CVCS) - reviewer - 3 manuscripts

2015 | AIC2015/MCS2015 - reviewer - 12 abstracts

2015 | 19th Scandinavian Conference on Image Analysis (SCIA) - reviewer - 2 manuscripts

2014 | Journal of Imaging Science and Technology - 1 manuscript

2014 | 5th European Workshop on Visual Information Processing (EUVIP) - reviewer - 4 manuscripts

2014 | Colour and Imaging Conference - reviewer - 3 manuscripts

2014 | Journal of Electronic Imaging - reviewer - 1 manuscript

2013 | Journal of Electronic Imaging - reviewer - 1 manuscript

2013 | Colour and Imaging Conference 2013 - reviewer - 2 manuscripts

2013 | IEEE Transactions on Image Processing - reviewer - 2 manuscripts

2013 | Journal of Imaging Science and Technology - reviewer - 2 manuscripts

2013 | The Colour and Visual Computing Symposium 2013 (CVCS) - reviewer - 3 manuscripts

2013 | 14th international Workshop on Image and Audio Analysis for Multimedia Interactive Services (WIAMIS)- reviewer - 1 manuscript

2013 | 4th European Workshop on Visual Information Processing (EUVIP) - reviewer - 4 manuscripts

2013 | Journal of Imaging Science and Technology - reviewer - 1 manuscript

2012 | Journal of Signal Image and Video Processing - reviewer - 2 manuscripts

2012 | IEEE Transactions on Image Processing - reviewer - 2 manuscripts

2012 | IEEE International Symposium on Circuits and Systems - reviewer - 1 manuscript

2011 | European Conference on Colour in Graphics, Imaging, and Vision - reviewer - 1 manuscript

2011 | EURASIP Journal on Advances in Signal Processing - reviewer - 1 manuscript

2008/2017 | Journal of Optical Society of America A - reviewer - 2 manuscripts

Conference committees and conference work

2018 | 26th Color and Imaging Conference
General chair

2017 | International Workshop on Colour and Multispectral Imaging
Program committee member

2017 | 25th Color and Imaging Conference
Technical program chair and session chair

2016 | International Conference on Image and Signal Processing (ICISP)
Program committee member

2016 | 24th Color and Imaging Conference
Technical program chair and session chair

2016 | Electronic Imaging 2016: Color Imaging XX: Displaying, Processing, Hardcopy, and Applications
Program committee member

2015 | European Workshop on Visual Information Processing (EUVIP)
Program chair

2015 | Electronic Imaging 2015: Color Imaging XX: Displaying, Processing, Hardcopy, and Applications
Session chair

2015 | International Conference on Image Processing Theory, Tools and Applications 2015 (IPTA2015)
Program committee member

2015 | International Workshop on Colour and Multispectral Imaging
General co-chair with Jean-Baptiste Thomas (University of Burgundy). Co-located with the International Conference on Signal Image Technology & Internet based Systems

2015 | 23rd Color and Imaging Conference
JIST Special Section Editor

2015 | International Colour Association 2015 (AIC2015)
Program committee member

2015 | International Conference on Image Processing (ICIP2015) - Special Session on Color Imaging and Applications
Special session organizer

2015 | Colour and Visual Computing Symposium 2015 (CVCS2015)
General co-chair

2014 | 22nd Color and Imaging Conference
JIST Special Section Editor

2014 | 5th European Workshop on Visual Information Processing (EUVIP)
Technical program committee member and session chair

2013 | IS&T Conference committee
Committee member for designing a new IS&T color conference.

2013 | 21st Color and Imaging Conference
Interactive paper chair and session chair

2013 | Colour and Visual Computing Symposium 2013
Symposium chair

2013 | 4th European Workshop on Visual Information Processing (EUVIP)
Technical committee member

2012 | 8th International IEEE Conference on Signal Image Technology and Internet Based Systems
Program committee member

Teaching

2017 | "IMT4895 Specialisation in Colour Imaging". 7.5ECTS - master level. NTNU. Lecturer in parts of the course.

2017 | Short course "Color Image Quality Assessment" together with Dr. Seyed Ali Amirshahi at the 25th Color and Imaging Conference
Lillehammer, Norway

2016 | Short course "Color Image Quality Assessment" together with Prof. Jan Allebach at the 24rd Color and Imaging Conference
San Diego, USA

2015 | 2-day course "Image acquisition and image quality" together with Assoc. Prof. Peter Nussbaum. 2-day industrial course.
Gjøvik, Norway

2015 | Short course "Color Image Quality Assessment" together with Prof. Jan Allebach at the 23rd Color and Imaging Conference
Darmstadt, Germany

2015 | Guest lectures "Contrast" and "QuickEval" for master students at the University of Burgundy.
Dijon, France

2014 | Short course "Objective Image Quality Assessment"at the 5th European Workshop on Visual Information Processing
Paris, France

2014 | Short course "Color Image Quality Assessment" together with Prof. Jan Allebach at the 22nd Color and Imaging Conference
Boston, MA, USA

2014 | Guest lecture "Contrast" for master students at the University of Burgundy.
Dijon, France

2014-2017 | IMT6211: Image quality. 5 ECTS. PhD level. Gjøvik University College/NTNU. Taught five times.

2012 -2016 | IMT4172: Color Image Quality and processing in an imaging workflow. 5 ECTS. Master level. Gjøvik University College/NTNU.

2013 | Short course "Color Image Quality Assessment" together with Prof. Jan Allebach at the 21th Color and Imaging Conference
Albuquerque, NM, USA

2013 | Guest lecture in "Selected topics in Color Imaging" at Gjøvik University College. Master level.
Title: Improved Simulation of Image Detail Visibility Using the Non-Subsampled Contourlet Transform.

2012 | Short course "Color Image Quality Assessment" together with Prof. Jan Allebach at the 20th Color and Imaging Conference
Los Angeles, CA, USA

2012 | Guest lecture in "Advanced Course in Color Imaging" at Gjøvik University College. Master level.
Title: Simulation of Image Detail Visibility using Contrast Sensitivity Functions and Wavelets.

2007-2017 | Guest lecture in "Digital Image Reproduction and Colour Management" at Gjøvik University College/NTNU. Bachelor level.
Title: Introduction to RAW format.

2009-2010 | Guest lecture in "Advanced Course in Color Imaging" at Gjøvik University College. Master level.
Title: Image Quality.

2008 | Guest lecture in "Scientific Methodology" at Gjøvik University College. Master level.
Title: Practical information on the master thesis.

2007 | Guest lecture in "Advanced Course in Color Imaging" at Gjøvik University College. Master level.
Title: Introduction to halftoning.

PhD committees

2017 | Opponent PhD defense - Paula Zitinski Elias. Title: "Improving image quality in multi-channel printing: multilevel halftoning, color separation and graininess characterization". Linkoping University, Sweden.

2016 | Pre-Examiner PhD - Jenni Radun. Title: "Better images – Understanding and Measuring Subjective Image Quality". University of Helsinki, Finland.

2016 | Rapporteur PhD - Victor Medina. Title: "Visuo-perceptual validation methods for physically-based image synthesis". MINES ParisTech, France.

Other academic activities

2017-current | Deputy head of the Computer Science Department, NTNU.

2017-current | Group leader department of Computer Science Gjøvik.

current
Jan 2012 | Director of the Norwegian Colour and Visual Computing Laboratory, Gjøvik, Norway

2017-current | Member of Campus Council at NTNU in Gjøvik

2017-current | Member of COST Action "MULTI-modal Imaging of FOREnsic SciEnce Evidence (MULTI-FORESEE) - tools for forensic science."

2017 | Examiner for COSI master thesis
Written thesis - 1 report

2016-2017 | Member of faculty management committee at NTNU.

2015 | Member of faculty management committee at Gjøvik University College.

2015 | Examiner for IMT4882 Specialization topic
Written exam - 2 reports

2015 | Examiner for CIMET master thesis
Written thesis - 1 report

2013-2014 | Examiner for IMT5261 Selected topics in color imaging
Oral exam

2013 | Examiner for CIMET master thesis
Written thesis - 1 report

2013-today | Co-founder and secretary of Forum Farge
Network organization for colour in Norway

2013-today | Webmaster for Forum Farge website
www.forumfarge.no

2012 | Examiner for CIMET master thesis
Written thesis - 2 reports

2012 | Mentor at Idelab24 2013
Gjøvik University College, Norway

2012 | Presentation at PhD seminar: PhD study experiences
University of Oslo, Norway

2012-2013 | Webmaster for CP7.0 website
www.cp70.org

2012-today | Webmaster for 3DMT website
www.master-3dmt.eu

2008-today | Webmaster for Colourlab website
www.colourlab.no

2009-2010 | Webmaster for CIMET website
www.master-erasmusmundus-color.eu

2008-2009 | Faculty advisor for the master programme "Color in Informatics and Media Technology" at Gjøvik University College

2008-2010 | Member of the research council at Gjøvik University College.

Scientific memberships

2013-current: Norwegian Association for Image Processing and Pattern Recognition (NOBIM)
2013-current: Forum Farge
2007-current: IS&T

Languages

Norwegian:	Mothertongue
English:	Fluent
German:	Basic Knowledge

Computer Skills

Intermediate Knowledge:	Matlab,LaTeX,BIBTeX
Basic Knowledge:	C++, Java, R, php, mysql, html, Adobe Photoshop

Interests and Activities

Color imaging, color and image processing, printing, high dynamic range imaging, psychometrics
Technology, photography, movies
Sports and fly fishing

Referees

Pr. Jon Yngve Hardeberg	email: jon.hardeberg@ntnu.no, phone: +47 61 13 52 15
Other referees:	Upon request