



MARIUS PEDERSEN

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Nationality: Norwegian

EDUCATION

Ph.D. <i>Colour Imaging</i> University of Oslo	2011 Oslo, Norway
<ul style="list-style-type: none">• 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 Technologies, Creteil, France	
Master of Technology <i>Media Technology</i> Gjøvik University College	2007 Gjøvik, Norway
<ul style="list-style-type: none">• Thesis: "Importance of region-of-interest on image difference metrics"• Academic supervisor: Prof. Jon Yngve Harbeberg and Associate Prof. Peter Nussbaum	
One-year programme <i>Education</i> Lillehammer University College	2007 Lillehammer, Norway
Bachelor of Computer Engineering <i>Computer technology</i> Gjøvik University College	2006 Gjøvik, Norway
High school Brandbu High School	2002 Brandbu, Norway

WORK EXPERIENCE

Professor of Colour Imaging Norwegian University of Science and Technology	Dec 2017 – today Gjøvik, Norway
Associate Professor Norwegian University of Science and Technology	Jan 2016 – Dec 2017 Gjøvik, Norway
Associate Professor Gjøvik University College	Nov 2013 – Dec 2015 Gjøvik, Norway
Researcher Gjøvik University College	Nov 2011 – Nov 2013 Gjøvik, Norway
Ph.D. Student Gjøvik University College	Aug 2007 – Nov 2011 Gjøvik, Norway
Customer consultant Telenor Customer Service	Feb 2004 – Jun 2007 Gjøvik, Norway
Customer consultant Proffice for TELENOR CUSTOMER SERVICE	Sep 2003 – Feb 2004 Gjøvik, Norway
Customer consultant Nortelco Teledialog AS	Mar 2003 – Sep 2003 Gjøvik, Norway

Service employee ISS Norge Stasjonservice	Apr 2002 – Jul 2003 Oslo, Norway
Customer consultant Norges Statsbaner BA	Jun 2001 – Apr 2002 Oslo, Norway

WORK EXPERIENCE

Founder and board leader VidiPix AS	2022 –today Gjøvik, Norway
Founder and owner Nymfa DA	2021 – 2024 Gjøvik, Norway

LEADERSHIP EXPERIENCE

Deputy head of department campus Gjøvik ("Stedfortreder") Department of Computer Science, NTNU	2022 – today Gjøvik, Norway
Unit leader - Colourlab Department of Computer Science, NTNU	2022 – today Gjøvik, Norway
Deputy head campus Gjøvik Department of Computer Science, NTNU	2017 – 2021 Gjøvik, Norway
Unit leader - IDI Gjøvik Department of Computer Science, NTNU	2017 – 2021 Gjøvik, Norway
Research group leader - Colourlab Department of Computer Science, NTNU / Gjøvik University College	2012 – 2022 Gjøvik, Norway

INTERNATIONAL EXPERIENCE

Three weeks visiting researcher Université de Bourgogne	Feb 2015 Dijon, France
Two weeks visiting researcher Université de Bourgogne	May 2014 Dijon, France
On average two weeks every two months Océ Print Logic Technologies	Nov 2011 – Aug 2007 Creteil, France

PROJECTS, CONSORTIA AND FUNDING

Development of an efficient reproduction concept for spotted wolf fish Project member <ul style="list-style-type: none"> • Project coordinator: Cryogenetics AS • Project funded by Regional Research Council Innlandet 	2024 – 2025
Interpretable Machine Learning for Vision, Imaging, and Color Sciences (IMaLe-VICS) Project member <ul style="list-style-type: none"> • Project coordinator: University of Valencia, Spain • Project funded by Generalitat Valenciana, Spain 	2023 – 2025
Academic Partnership for Excellence in Color Science (APECS) Project leader <ul style="list-style-type: none"> • UTFORSK-2021 project funded by the HK-dir • Total budget 4 827 708 NOK 	2023 – 2026

ATELIER-EO: Automated machine learning framework tailored to Earth Observation	2022-2023
Project member	
<ul style="list-style-type: none"> • Project coordinator: Cryogenetics AS • Participated to the application, supervisor for a post doc • Innovation project funded by the Research Council of Norway 	
Digital Inspection	2022 – 2025
Project member	
<ul style="list-style-type: none"> • Project coordinator: EVICI AS • Participated to the application, supervisor for a researcher • Innovation project funded by the Research Council of Norway • Total budget 3 500 000 NOK 	
VQ4MedicS: Video Quality Assessment and Enhancement for Pre-Hospital Medical Services	2021 – 2025
Project member	
<ul style="list-style-type: none"> • Participated to the application and participated to the project as -co-supervisor for a Ph.D. student • IKTPLUSS project funded by the Research Council of Norway • Total budget 15 469 000 NOK 	
Quality and Content: understanding the influence of content on subjective and objective image quality assessment	2021 – 2025
Project leader	
<ul style="list-style-type: none"> • Researcher project funded by the Research Council of Norway • Total budget 12 710 000 NOK 	
CapsNetwork – International Network for Capsule Imaging in Endoscopy	2021 – 2026
Project leader	
<ul style="list-style-type: none"> • INTPART project funded by the Research Council of Norway • Total budget 12 500 000 NOK 	
Web-based solution for enhancement of wallpapers	2020 – 2021
Co-inventor	
<ul style="list-style-type: none"> • NTNU Discovery innovation pre-project • Total budget 200 000 NOK 	
Contrast sensitivity in the peripheral vision for color imaging	2020 – 2023
Project leader	
<ul style="list-style-type: none"> • NTNU Digital Enabling Technologies • Total budget 3 000 000 NOK 	
FISH-TRACKING: Analysis of fish behavior	2019 – 2020
Project member	
<ul style="list-style-type: none"> • Pre-project funded by the Regional Research Council Innlandet • Total budget 1 000 000 NOK 	
Improved Pathology Detection in Wireless Capsule Endoscopy Images through Artificial Intelligence and 3D Reconstruction (CAPSULE)	2019 – 2024
Project leader	
<ul style="list-style-type: none"> • IKTPLUSS project funded by the Research Council of Norway • Total budget 17 678 000 NOK 	

Appearance Printing - European Advanced Research School (APPEARS)	2019 – 2023
Participated to the application, supervisor for a Ph.D. student	
<ul style="list-style-type: none"> • Innovative Training Network (ITN) - Marie Skłodowska-Curie programmet (MSCA) 	
Cultural Heritage Analysis for New GEnerations (CHANGE)	2019 – 2023
Participated to the application, supervisor for a Ph.D. student	
<ul style="list-style-type: none"> • Innovative Training Network (ITN) - Marie Skłodowska-Curie programmet (MSCA) 	
Faglig fadderopplegg	2019
Project leader	
<ul style="list-style-type: none"> • Project funded by the Centre for Excellent IT Education, Exclted • Total budget 50 000 NOK 	
MUVApp - Measuring and Understanding Visual Appearance	2016 – 2020
Participated to the application, supervisor for a post doctoral researcher and two Ph.D. students	
<ul style="list-style-type: none"> • FRIPRO (Toppforsk) project funded by the Research Council of Norway • Total budget 24 978 000 NOK 	
CCSF-Quality: Defining new Chromatic Contrast Sensitivity Functions for improved quality assessment and quality enhancement	2016 – 2018
Participated to the application, supervisor to the Post-doctoral researcher	
<ul style="list-style-type: none"> • FRIPRO (FRINTATEK - mobility) project funded by the Research Council of Norway • Total budget 3 178 000 NOK 	
Development of Imaging Tools for Change Detection of Cultural Heritage Objects	2016 – 2017
Project member	
<ul style="list-style-type: none"> • Pre-project funded by the Regional Research Council Innlandet • Total budget 1 003 150 NOK 	
3DSVis - Spectral and 3D Image Fusion for Enriched Visualization of Cultural Heritage Assets	2016
Project leader	
<ul style="list-style-type: none"> • IS-DAAD project funded by the Research Council of Norway • Total budget 60 000 NOK 	
IQ-MED: Image Quality enhancement in MEDical diagnosis, monitoring and treatment	2015 – 2019
Project leader	
<ul style="list-style-type: none"> • IKTPLUSS project funded by the Research Council of Norway • Total budget 16 160 000 NOK 	
Orientation selectivity in chromatic contrast sensitivity of the human visual system and its consequences on display quality	2015
Project leader	
<ul style="list-style-type: none"> • Aurora project funded by the Research Council of Norway • Total budget 50 000 NOK 	
HyperDerm - Imaging system prototype setup and evaluation	2014 – 2015
Project member	
<ul style="list-style-type: none"> • Pre-project funded by the Regional Research Council Innlandet • Total budget 1 000 000 NOK 	
Hyperspectral Imaging and Analysis of Ancient Manuscripts	2014 – 2015
Project member	

- Pre-project funded by the Regional Research Council Innlandet
- Total budget 1 069 000 NOK

Colourplay: colour science research through gameplay

2013 – 2014

Project leader

- Project funded by the Regional Research Council Innlandet
- Total budget 956 000 NOK

HyPerCept: Color and Quality in Higher Dimensions

2012 – 2018

Sub-programme leader and work package leader

- Strategic University College project funded by the Research Council of Norway
- Total budget 33 665 000 NOK

Colour Printing 7.0: Next Generation Multi-Channel Printing

2012 – 2015

Participated to the application and project

- Marie Curie Initial Training Networks (ITN) CP7.0 N-290154 funded by the European Union
- Total budget 2 449 460 EUR

Master programme 3D multimedia technology

2012 – 2017

Project leader and academic coordinator

- French-Norwegian master programme together with University of Jean-Monnet, France.

Perceptual Image difference metrics - a unifying approach to image representation and reproduction

2007 – 2011

Participated to the application and project

- Strategic University College project funded by the Research Council of Norway
- Total budget 6 810 000 NOK

PRESENTATIONS

Fremtidens muligheter: kunstig intelligens og videoovervåkning

Nov 2024

Invited talk. Seminar, Senja, Norway.

Kunstig intelligens og fremtidens grafiske bransje

Oct 2024

Invited talk. FESPA årskonferanse, Oslo, Norway.

Farvel fastlege, jeg går heller til ChatGPT

Sep 2024

Debate during Researcher's days - one of three panelists.

(Litt om) kunstig intelligens

Jun 2024

Presentation for Eidssiva Bredbåd

This changes to that: combining casual and non-causal explanation to generate disease progression in capsule endoscopy

Jun 2023

Invited talk. Interactive Explanations of Neural Networks and Artificial Intelligence (Int-XAI). Presented with Anuja Vats.

Computer aided diagnoses for wireless capsule endoscopy

Mar 2021

Invited talk. Biomedical signals: processing and mathematical analysis. Presented with Anuja Vats.

Automatisk gjenkjenning av fisk

Mar 2021

Invited talk. Fiskesymposium 2021

Impact of Color on Deep Convolutional Neural Networks

Jan 2021

Invited talk. Workshop on Metrification and Optimization of Input Image Quality in Deep Networks at ICPR2021

Colour and visual computing research Invited talk. Når de kreative møter teknologien, Oslo, Norway	Jun 2019
Hvordan kan maskinlæring og kunstig intelligens bidra til å hjelpe kronikere? Invited talk. Helseinn seminar, Gjøvik, Norway	Mar 2019
Research at The Norwegian Colour and Visual Computing Laboratory. CatchIDI, Trondheim, Norway	Jan 2019
Bilder og farger: ser du det samme som jeg? Invited talk. Juniorakademiet, Raufoss, Norway	Sep 2017
Towards a perceptual image quality metric Invited talk. Third International Conference on Signal Processing and Integrated Networks (SPIN), New Delhi, India	Feb 2016
The murkiness of image quality assessment Invited talk. Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications, San Francisco, CA.	Feb 2016
ColourPlay - barn og forskere leker sammen Invited talk. Forum Farge 2014, Gjøvik, Norway	Mar 2014
Presentation at PhD seminar: PhD study experiences University of Oslo, Norway	2012
Eye-tracking demonstration Opening of Universal Design Lab at Gjøvik University College	2012
Image quality metrics for the evaluation of printing workflows Vitenforum at Gjøvik University College, Gjøvik, Norway	May 2012
Perceived Image Quality Invited talk. Vigeland Museum, Oslo, Norway	Apr 2012
Image Quality Invited talk. Seminar on Qualities and Values in Visual Media. Lillehammer, Norway	Jun 2009
Rank order and image difference Colorlab Workshop: Psychophysical experiments for image quality.	Jun 2008
Web-based image quality evaluation experiments Colorlab Workshop: Psychophysical experiments for image quality.	Jun 2008
Gaze information and image difference metrics Colorlab Workshop: Vision, Imaging and Eye Movements. Gjøvik, Norway.	Apr 2008
Eye-tracking for color imaging research Workshop at Gjøvik Color Imaging Symposium.	Aug 2007

HONORS AND AWARDS

Outstanding Academic Fellows Programme 2019-2023 One of 20 fellows selected by NTNU	2019 – 2023
Best paper award. Caustics and translucency perception, Davit Gigilashvili, Lucas Dubouchet, Jon Yngve Hardeberg, and Marius Pedersen Material Appearance 2020	2027

Best student paper award. Perceived Glossiness: Beyond Surface Properties. Davit Gigilashvili, Jean-Baptiste Thomas, Marius Pedersen, and Jon Yngve Hardeberg Color and Imaging Conference 2019	2019
Runner-up Cactus award (best poster award). Comparing the Chromatic Contrast Sensitivity in Vertical and Oblique Orientations, Seyed Ali Amirshahi Marius Pedersen, Azeddine Beghdadi Color and Imaging Conference 2019	2019
Society for Imaging Science and Technology 2019 Service Award Award for service for the Color Imaging and Conference	2019
Best paper award "Image Quality Assessment by Comparing CNN Features between Images". Image Quality and System Performance conference at Electronic Imaging 2017	Feb 2017
Regional R&D prize Awarded the regional R&D prize with the Norwegian Color and Visual Computing Laboratory	Apr 2012
Best student paper "Image quality metrics for the evaluation of print quality" Image Quality and System Performance conference at Electronic Imaging 2011	2011

REVIEWER AND EDITOR

Journal of Imaging Science and Technology Associate editor	2014 – today
Colour and Visual Computing Symposium 2024 Reviewer - 2 manuscripts	2024
European Workshop on Visual Information Procesing (EUVIP) Reviewer - 3 manuscripts	2024
London Imaging Meeting (LIM) Reviewer - 2 manuscripts	2024
EUSIPCO 2024 Reviewer - 2 manuscripts	2024
The 12th International Conference on Signal, Image, Video and Communications (ISIVC) Reviewer - 2 manuscripts	2024
4th International Conference on Pattern Recognition and Artificial Intelligence Reviewer - 5 manuscripts	2024
Colour and Imaging Conference Reviewer - 3 manuscripts	2024
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) Reviewer - 1 manuscript	2023
European Workshop on Visual Information Procesing (EUVIP) Reviewer - 2 manuscripts	2023
Colour and Imaging Conference Reviewer - 3 manuscripts	2022

Scandinavian Conference on Image Analysis Reviewer - 2 manuscripts	2022
3rd International Conference on Pattern Recognition and Artificial Intelligence Program committee	2022
Frontiers in robotics and AI Guest editor - special issue "'Endoscopic Capsule Robot-based Diagnosis, Navigation and Localization" - with Dr. Hao Wang and Prof. Helder Araujo	2021
The 9th European Workshop on Visual Information Processing Reviewer - 2 manuscripts	2021
London Imaging Meeting Reviewer - 1 manuscript	2021
Journal of Perceptual Imaging Reviewer - 1 manuscript	2020
SN Computer Science Reviewer - 1 manuscript	2020
International Conference on Image and Signal Processing 2020 Reviewer - 3 manuscripts	2020
International Conference on Advanced Technologies for Signal and Image Processing (ATSIP'2020) Reviewer - 3 manuscripts	2020
IEEE Transactions on Image Processing Reviewer - 1 manuscript	2020
AIC 2020 Reviewer - 4 abstracts	2020
London Imaging Meeting Reviewer - 4 manuscripts	2020
VISAPP 2020 Reviewer/meta-reviewer - 2/2 manuscripts	2020
ACM Multimedia 2019 Reviewer - 6 manuscripts	2019
Colour and Imaging Conference Reviewer - 3 manuscripts	2019
Colour and Visual Computing Symposium 2018 Reviewer - 3 manuscripts	2018
Computational and Mathematical Methods in Medicine Reviewer - 1 manuscript	2018
International Conference on Image Processing Theory, Tools and Applications 2017 Reviewer - 2 manuscripts	2017
International Workshop on Colour and Multispectral Imaging Reviewer - 1 manuscript	2017

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	2016
Signal Processing: Image Communication Reviewer - 2 manuscripts	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	2015
Journal of Imaging Science and Technology Reviewer - 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	2014
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 - 3 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 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	2012
European Conference on Colour in Graphics, Imaging, and Vision Reviewer - 1 manuscript	2011
EURASIP Journal on Advances in Signal Processing Reviewer - 1 manuscript	2011
Journal of Optical Society of America A Reviewer - 2 manuscripts	2008/2017

CONFERENCE COMMITTEES AND CONFERENCE WORK

Workshop on Challenges in Wireless Capsule Endoscopy (CWE) Organizer. Workshop at 27th International Conference on Pattern Recognition (ICPR)	2024 Kolkata, India
32nd Color and Imaging Conference JIST-first lead associate editor	2024 Montreal, Canada
Challenges in Image Quality Assessment Workshop organized with Seyed Ali Amirshahi at CIC31	2023 Paris, France
31st Color and Imaging Conference JIST-first lead associate editor	2023 Paris, France
The 11th European Workshop on Visual Information Processing Special Session Chair	2023 Gjøvik, Norway
WAI: International Workshop on Appearance and Imaging at 16th International Conference on Signal Image Technology & Internet based systems Workshop co-chair	2022
30th Color and Imaging Conference JIST-first lead associate editor	2022 Scottsdale, USA
Colour and Visual Computing Symposium 2022 (CVCS2022) Program committee member	2022 Gjøvik, Norway
29th Color and Imaging Conference JIST-first lead associate editor	2021 Online

London Imaging Meeting Program Committee member	2021
The 9th European Workshop on Visual Information Processing Publicity chair	2020
Colour and Visual Computing Symposium 2020 (CVCS2020) Program committee member	2020
International Conference on Image and Signal Processing 2020 Program committee	2020
International Conference on Image Processing Theory, Tools and Applications Special session chair	2020
Electronic Imaging 2020: Color Imaging XXV: Displaying, Processing, Hardcopy, and Applications Technical program committee member	2020
International Conference on Advanced Technologies for Signal & Image Processing Program committee	2020
9th International Conference on Image and Signal Processing Program committee member	2019
Workshop "Future of image quality" at the Color and Imaging Conference Organizer	2019
European Workshop on Visual Information Processing Session chair	2019
Electronic Imaging 2019: Color Imaging XXIV: Displaying, Processing, Hardcopy, and Applications Technical program committee member	2019
Special session "Perceptual visual information quality enhancement evaluation: challenges and opportunities" at the International Conference on Quality of Multimedia Experience Organizer	2019
26th Color and Imaging Conference General chair	2018 Vancouver, Canada
Electronic Imaging 2018: Color Imaging XXIII: Displaying, Processing, Hardcopy, and Applications Technical program committee member	2018
International Workshop on Colour and Multispectral Imaging Program committee member	2017
25th Color and Imaging Conference Technical program chair and session chair	2017 Lillehammer, Norway
International Conference on Image and Signal Processing (ICISP) Program committee member	2016
24th Color and Imaging Conference Technical program chair and session chair	2016 San Diego, USA

Electronic Imaging 2016: Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications Technical program committee member	2016
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	2015 Gjøvik, Norway
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	2014
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 Gjøvik, Norway
4th European Workshop on Visual Information Processing (EUVIP) Technical committee member	2013
8th International IEEE Conference on Signal Image Technology and Internet Based Systems Program committee member	2012

TEACHING - COURSES

IMT2363 - Colour Management and Image Quality NTNU. Lecturer "IMT2363 - Colour Management and Image Quality" together with Assoc. Prof. Peter Nussbaum. Bachelor level	2017 – 2024 2 ECTS
IMT4135 - Introduction to Research on Colour and Visual Computing NTNU. Lecturer. Master level	2018 – 2023 7.5 ECTS
IMT4461 Project Work for Exchange Master Students NTNU. Course responsible. Master level	2018 – today 30 ECTS
IDIG4001 - Project Work for Exchange Master Students NTNU. Course responsible. Master level	2021 – today 22.5 ECTS
IMT4895 Specialisation in Colour Imaging NTNU. Lecturer. Master level	2017 – today 7.5 ECTS
IMT6211: Image quality Gjøvik University College/NTNU. Course responsible. Taught five times. PhD level	2014 – 2017 5 ECTS
IMT4172: Color Image Quality and processing in an imaging workflow Gjøvik University College/NTNU. Lecturer. Master Level	2012 – 2016 5 ECTS

TEACHING - SHORT COURSES AND GUEST LECTURES

Short course "Color Image Analysis with Deep Learning: Techniques and Best Practices" 2-hours course taught with Ahmed Mohammed Kedir at CIC31	2023 Paris, France
Short course "Fargestyring og bildekvalitet" 3 day course taught with Peter Nussbaum	2023 Gjøvik, Norway
Short course "Bruk av stordata - utfordringer og muligheter" Presentation for Sparebank1 Østlandet	2020
Short course "Bruk av big data/stordata - muligheter og utfordringer" Course run twice. 3 hours each time	2020 Gjøvik, Norway
4-day course "Image acquisition and image quality" Taught together with Assoc. Prof. Peter Nussbaum. 4-day industrial course.	2018 Gjøvik/ Oslo, Norway
Short course "Color Image Quality Assessment" Taught together with Dr. Seyed Ali Amirshahi at the 26th Color and Imaging Conferenc	2018 Vancouver, Canada
Short course "Color Image Quality Assessment" Taught together with Dr. Seyed Ali Amirshahi at the 25th Color and Imaging Conferenc	2017 Lillehammer, Norway
Short course "Color Image Quality Assessment" Taught together with Prof. Jan Allebach at the 24rd Color and Imaging Conference	2016 San, Diego
2-day course "Image acquisition and image quality" Taught together with Assoc. Prof. Peter Nussbaum. 2-day industrial course.	2015 Gjøvik, Norway
Short course "Color Image Quality Assessment" Taught together with Prof. Jan Allebach at the 23rd Color and Imaging Conference	2015 Darnstadt, Germany
Guest lectures "Contrast" and "QuickEval" Taught for master students at the University of Burgundy	2015 Dijon, France

Short course "Objective Image Quality Assessment"	2014
Taught at the 5th European Workshop on Visual Information Processing	Paris, France
Short course "Color Image Quality Assessment"	2014
Taught together with Prof. Jan Allebach at the 22nd Color and Imaging Conference	Boston, MA, USA
Guest lecture "Contrast"	2014
Lecture for master students at the University of Burgundy	Dijon, France
Short course "Color Image Quality Assessment"	2013
Taught together with Prof. Jan Allebach at the 21th Color and Imaging Conference	Albuquerque, NM, USA
Guest lecture "Improved Simulation of Image Detail Visibility Using the Non-Subsampled Contourlet Transform"	2013
Taught for "Selected topics in Color Imaging" at Gjøvik University College. Master level	Gjøvik, Norway
Short course "Color Image Quality Assessment"	2012
Taught with Prof. Jan Allebach at the 20th Color and Imaging Conference	Los Angeles, USA
Guest lecture: "Simulation of Image Detail Visibility using Contrast Sensitivity Functions and Wavelets"	2012
Taught for course "Advanced Course in Color Imaging" at Gjøvik University College. Master level	Gjøvik, Norway
Guest lecture: "Introduction to RAW format"	2007 – 2017
Taught for course "Digital Image Reproduction and Colour Management" at Gjøvik University College/NTNU. Bachelor level	Gjøvik, Norway
Guest lecture: "Image quality"	2009 – 2010
Taught for course "Advanced Course in Color Imaging" at Gjøvik University College. Master level	Gjøvik, Norway
Guest lecture: "Practical information on the master thesis"	2008
Taught for course "Scientific Methodology" at Gjøvik University College. Master level	Gjøvik, Norway
Guest lecture: "Introduction to halftoning"	2007
Taught for course "Advanced Course in Color Imaging" at Gjøvik University College. Master level	Gjøvik, Norway

PH.D. COMMITTEE WORK

Reviewer PhD defense - Alexander Biddulph. Title: "Stereo Computer Vision on Low Powered Computing Devices"	2023
University of Newcastle , Australia	
Reviewer PhD defense - Sukhendra Singh . Title: "Medical Image Classification Using High Dimensional Neurocomputing".	2023
DR. A.P.J. Abdul Kalam Technical University, India	
Reviewer PhD defense - Heenabahen Maheshbhai. Title: "Night Vision Thermal Image Enhancement for Object Detection using Deep Models".	2022
Sardar Vallabhbhai National Institute of Technology Surat, India	
Opponent PhD defense - Oliver Van Zwanenberg . Title: "Camera Spatial Frequency Response Derived from Pictorial Natural Scenes"	2022
University of Westminster, UK	

Opponent PhD defense - Hassan Ahmed Sial. Title: "Estimating Light Effects from a Single Image: Deep Architectures and Ground-Truth Generation" Universitat Autònoma de Barcelona, Spain	2021
Opponent PhD defense - Toni Virtanen . Title: "Instruments for image quality estimation" University of Helsinki, Finland	2020
Opponent PhD defense - Mohsen Jenadelah . Title: "Blind Image and Video Quality Assessment" University of Konstanz, Germany	2017
Opponent PhD defense - Paula Zitinski Elias. Title: "Improving image quality in multi-channel printing: multilevel halftoning, color separation and graininess characterization" Linköping University, Sweden	2017
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	2016

OTHER ACADEMIC ACTIVITIES

Reviewer of Personal Research Grant - 1 project proposal The Israel Science Foundation	2024
Evaluator ("Klagesensor") IDIG4321 Introduction to Color Image Processing. Master level. NTNU.	2024
Evalator ("Tilsynssensor") Machine Vision (AUT-2802). University of Tromsø	2024
Examiner for COSI master thesis 3 written theses. Master level. NTNU	2024
Examiner for COSI master thesis 1 written thesis. Master level. NTNU	2023
"FRIDI - Future organization of the department of computer science" Member of group. NTNU	2022 – 2024
Member of "Stedlig arbeidsmiljøutvalg" - "Arbeidsgiverrepresentant" NTNU in Gjøvik	2023-2024
PhD supervisor seminar NTNU	2021
External examiner - ISY9000 University of South-Eastern Norway	2019
Member of Campus Council - NTNU in Gjøvik Representing Department of Computer Science	2017 – today

COST Action "MULTI-modal Imaging of FOREnsic Science Evidence (MULTI-FORESEE) - tools for forensic science." Member/participant	2017 – 2021
Member of organizing committee for "Forskningsdagene" NTNU in Gjøvik	2021
Member of Working Group on "Fremtiden PhD utdanning ved IE fakultet" Faculty of Information Technology and Electrical Engineering. NTNU	2018
IE fakultetsopplæring Faculty of Information Technology and Electrical Engineering. NTNU	2018
Leadership training for research leader (Lederutviklingsprogram for forskergruppeledere) NTNU	2017
Examiner for COSI master thesis Written thesis - 1 report. NTNU	2017
Member of faculty management committee at NTNU. Faculty of Computer Science and Media Technology	2016-2017
Member of faculty management committee at Gjøvik University College Faculty of Computer Science and Media Technology	2015
Examiner for IMT4882 Specialization topic Written exam - 2 reports. Gjøvik University College	2015
Examiner for CIMET master thesis Written thesis - 1 report	2015
CIE Division 8 technical committee Contributed to TC8-12 Image and Video Compression Assessment	2014 – 2015
Examiner for IMT5261 Selected topics in color imaging Oral exam. Gjøvik University College	2013-2014
Examiner for CIMET master thesis Written thesis - 1 report	2013
Webmaster for Forum Farge website www.forumfarge.no	2013 – 2018
Examiner for CIMET master thesis Written thesis - 2 reports. Gjøvik University College	2012
Mentor at Idelab24 2013 Gjøvik University College, Norway	2013
CIE Division 8 reporter R8-10 Full-Reference Image Quality Metrics: Classification and Evaluation	2012 – 2015
Webmaster for CP7.0 website www.cp70.org	2012 – 2013
Webmaster for 3DMT website www.master-3dmt.eu	2012 – 2017

Webmaster for Colourlab website www.colourlab.no	2008 – 2024
Webmaster for CIMET website www.master-erasmusmundus-color.eu	2009 – 2010
Faculty advisor for the master programme “Color in Informatics and Media Technology” Gjøvik University College	2008 – 2009
Member of research council Gjøvik University College	2008 – 2010

COMMISSIONS OF TRUST - BOARDS

Society for Imaging Science and Technology Executive vice president	2023 – 2025
Digital Innlandet Board member	2022 – 2024
Society for Imaging Science and Technology Vice president	2020 – 2023
Regional Research Fund Inland (Regionale Forskningsfond Innlandet) Deputy board member	2020 – 2023
Forum Farge Co-founder and secretary of	2013 – 2018

SCIENTIFIC MEMBERSHIPS

IEEE	2016 – today
Norwegian Association for Image Processing and Pattern Recognition (NOBIM)	2013 – today
Forum Farge	2013 – today
Society for Imaging Science and Technology	2007 – today

SUPERVISION - POST DOCS

Anuja Vats Supervisor	2023 – 2027
Ahmed Mohammed Kedir Supervisor	2020 – 2020
Vlado Kitanovski Co-supervisor. Supervised with Jon Yngve Hardeberg	2018 – 2019
Seyed Ali Amirshahi Supervisor	2016 – 2019
Osamu Masuda Co-supervisor. Supervised with Jon Yngve Hardeberg	2013 – 2015

Riestiya Zain Fadillah - "Video Quality Enhancement for Pre-Hospital Medical Services"	2024 – 2027
Co-supervisor. Supervised with Dr. Seyed Ali Amirshahi and Prof. Azeddine Beghdadi	
Nikola Plavac - "Influence of Imaging Pipeline Distortions on Performance of Computer Vision Task and Image Quality"	2023 – 2026
Co-supervisor. Supervised with Dr. Seyed Ali Amirshahi and Dr. Sophie Triantaphillidou	
Bidosse Emmanuel Agossou - "Deep Learning for Pathology Localization in Wireless Capsule Endoscopy"	2023 – 2026
Supervisor. Supervised with Dr. Anuja Vats and Dr. Kiran Raja	
Bozhao Liu - "Combating clinical Depression using wearable sensors and Artificial Intelligence"	2022 – 2025
Co-supervisor. Supervised with Dr. Kiran Raja and Dr. Roger Hagen	
Mobina Mobini - "Understanding the influence of content on objective image quality assessment"	2022 – 2025
Supervisor. Supervised with Dr. Seyed Ali Amirshahi	
Shahzad Ahmad - "Remote Intelligent Health Monitoring"	2023 – 2025
Co-supervisor. Supervised with Dr. Sukalpa Chanda and Dr. Yogesh S Rawat	
Aniket Gurav	2021 – 2024
Co-supervisor. Supervised with Dr. Sukalpa Chanda and Dr. Narayanan C Krishnan	
Ying Xu - "Generalizable manipulation detection in visual media"	2021 – 2024
Co-supervisor. Supervised with Dr. Kiran Raja	
Ian Avery Bick - "Technoecology: Machine Learning in Bioacoustics & Ecological Art"	2021 – 2024
Co-supervisor. Supervised with Dr. Vegar Bakkestuen, Dr. Sarab Sethi, and associate Prof. Kiran Raja	
Olga Cherepkova - "Personalized image quality assessment"	2021 – 2024
Co-supervisor. Supervised with associate Prof. Seyed Ali Amirshahi	
Aliakbar Bozorgian - "Contrast sensitivity in the peripheral vision for color imaging"	2020 – 2024
Principal supervisor. Supervised with associate Prof. Jean-Baptiste Thomas	
Guoxia Xu - "Improving Image Quality, Content, and Practicality: Knowledge-Oriented Methods for Information Enhancement"	2020 – 2023
Co-supervisor. Supervised with Associate Professor Hao Wang, Associate Professor Hu Zhu, Assistant Professor Meng Zhao	
Anuja Vats - "Deep Learning for Improved Diagnosis of Pathologies in Wireless Capsule Endoscopy with Focus on Data Efficiency and Transparency"	2020 – 2023
Principal supervisor. Supervised with Dr. Ahmed Mohammed Kedir and Prof. Øistein Hovde	
Dipendra Jee Mandal - "Image Quality Assessment of Hyperspectral and Conventional Imaging for Cultural Heritage Artifacts"	2019 – 2023
Principal supervisor. Supervised with Dr. Sony George and Dr. Clotilde Boust (C2RMF)	
Altynay Kadyrova - "Quality Assessment of 2.5D Prints"	2019 – 2023
Principal supervisor. Supervised with Prof. Stephen Westland (University of Leeds)	

Davit Gigilashvili - "On the Appearance of Translucent Objects: Perception and Assessment by Human Observers"	2017 – 2021
Co-supervisor. Supervised with Jon Yngve Hardeberg and Jean-Baptiste Thomas	
Ahmed Mohammed Kedir - "Computational Techniques for Pathology Detection and Quality Enhancement with emphasis on Colonic Capsule Endoscopy "	2016 – 2019
Co-supervisor. Supervised with Sule Yildirim-Yayilgan (NTNU) and Øistein Hovde (Innlandet Hospital)	
Vlado Kitanovski - "Halftone modulations for data hiding in color printed images"	2015 – 2018
Principal supervisor. Supervised with Dr. Bian Yang	
David Völgyes - "Image quality in forensic CT imaging"	2015 – 2018
Principal supervisor. Supervised with Dag Waaler (HiG), Anne Catrine Trægde Martinsen (Oslo University Hospital) and Arne Stray-Pedersen (The Norwegian Institute of Public Health)	
Xinwei Liu - "Multi-modality quality assessment for unconstrained biometric samples"	2015 – 2018
Supervised with Christophe Charrier (University of Caen) and Patrick Bours (Gjøvik University College)	
Ferdinand Deger - "Contributions to spectral and 3D imaging technology for cultural heritage applications"	2012 – 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"	2012-2015
Co-supervisor. Supervised with Jon Yngve Hardeberg (HiG) and Jean Baptiste Thomas (University of Burgundy)	

SUPERVISION - RESEARCHERS

Min-Ho Jung	2019 – 2020
Co-supervisor. Supervised with Jean-Baptiste Thomas	
Olivier Rukundo	2019 – 2020
Supervisor	
Kanjar De	2019 – 2020
Supervisor. ERCIM researcher.	
Michael Osadebey	2018 – 2020
Supervisor. ERCIM researcher.	
Olivier Rukundo	2016 – 2017
Supervisor	
Mohsen Jenadeleh	2016
Supervisor. Supervised with Jon Yngve Hardeberg	

SUPERVISION - MASTER THESES

Kuldeep Dileep - "Fish re-identification in the wild"	2024
Supervisor. Supervised with Dr. Mohib Ullah	
Nikola Plavac - "Assessment of Deep Learning Algorithms for Automatic License Plate Recognition on Distorted Images "	2024
Co-supervisor. Supervised with Dr. Seyed Ali Amirshahi and Prof. Sophie Triantaphillidou	

Lakshay Jain - "HDR-FP: A Feature-Pooled Objective Metric for High Dynamic Range Video Quality Assessment "	2023
Supervisor	
Akib Jayed Islam - "Full Reference Image Quality Assessment using Siamese Neural Network"	2023
Supervisor	
Tawsin Uddin Ahmed - "DSTT-MARB: Multi-scale Attention Based Spatio-Temporal Transformers for Old Film Restoration"	2022
Supervisor. Co-supervised with Kjartan Sebastian Waaseth (Nagra) and Bernt-Erik Baltzersen (Nagra)	
Ehsan Ullah - "Multi-Attention SKFHDRNet For HDR Video Reconstruction "	2022
Supervisor. Co-supervised with Kjartan Sebastian Waaseth (Nagra) and Bernt-Erik Baltzersen (Nagra)	
Victor Landre - "Influence of viewing history on image quality assessment"	2017
Supervisor. Co-supervised with Dag Waaler	
Olga Cherepkova - "Content-based image quality assessment"	2017
Supervisor	
Davit Gigilashvili - "Measuring and enhancing the quality of medical images : application to fluorescence image guided surgery using dual-axis confocal microscopy"	2017
Co-supervisor. Supervised with Jon Yngve Hardeberg	
Yao Cheng - "The Comparison of ICC v2 and v4 Profile Based on Perceptual Rendering Intent"	2015
Supervisor. Supervised together with Phil Green and GuangXue Chen (South China University of Technology)	
Matthieu Hog - "Improving Refocusing Algorithms For Light Field Cameras"	2015
Supervisor. Supervised together with Valter Drazic (Technicolor) and Alain Tremeau (University of Jean-Monnet)	
Rameez Wajid - "Automatic Prediction of Perceptual Image Quality"	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"	2014
Supervisor. Supervised together with Raghavendra Ramachandra	
Daniel Suazo - "Joint Contribution of Seam Carving and Edge Blending techniques to multi-projector seamlessness"	2014
Supervisor. Supervised together with Jean-Baptiste Thomas (Université de Bourgogne)	
Antonio Pelegrina - "Evaluation of Image Quality of State-of-art CT Vendors in the Norwegian Market "	2014
Supervisor. 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"	2013
Supervisor. Supervised together with Jon Yngve Hardeberg (HiG)	

Dawid Mozejko - "Image texture, Uniformity, homogeneity and radiation dose properties in CT"	2013
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"	2012
Supervisor	
Milena Cisarova - "Verification of proposed ISO methods to measure resolution capabilities of printing systems"	2012
Supervisor. Supervised together with Peter Nussbaum (HiG) and Frans Gaykema (Océ, the Netherlands)	
Gong Mingming - "Spatial Pooling Methods For Color Image Quality Attributes Assessment"	2011
Supervisor	
Timothée Royer - "Influence of Image Characteristics on Image Quality"	2010
Supervisor	
Sebastien Akli Ajagamelle - "Analysis of the difference of Gaussians model in perceptual image difference metrics"	2009
Supervisor. Supervised with Gabriele Simone (HiG)	
Valentina Caracciolo - "Just Noticeable Distortion evaluation in color images"	2009
Supervisor. Supervised with Gabriele Simone (HiG) and Faouzi Alaya Cheikh (HiG)	
SUPERVISION - BACHELOR THESES	
Joakim Aleksandersen, Sara Savanovic Djordjevic, and Hoa Ben The Nguyen - "IceMap An ice safety mapping system"	2024
Bachelor in Programming. Co-supervisor. Supervised with Pål Anders Floor.	
Aliaan Azam, Sondre Espeland and Jonathan Folland - "MONK - Monitoring Data Extraction Kiosk System"	2024
Bachelor in computer engineering. Co-supervisor. Supervised with Pål Anders Floor.	
Yousif Abdulrahman Almallah and Alexander Gratland - "Digital Inspection System for Municipalities based on Satellite Images"	2023
Bachelor in computer engineering. Supervisor.	
Benjamin Letnes Bjerken, Lars Blütecher Holter, Daniel Hao huynh, and Lillian alicia Wangerud - "Fish Detection in Underwater Video"	2023
Bachelor in Programming. Supervisor.	
Erik Dale, Yeshe Jampel Pursley, Håvard Østli Fjørkenstad - "Image Content and Hand Writing Analysis of the Dead Sea Scrolls"	2022
Bachelor in Programming. Supervisor	
Artūrs Umbraško, Kacper Lewandowski, Daniel Dahl - "OS Runner - Educative multiplayer rogue-like deck-building gaming experience in Cybersecurity"	2021
Bachelor in Programming. Co-supervisor. Supervised with Aland Mendoza.	
Birger Johan Nordølum, Eirik Osland Lavik, Kristian André Dahl Haugen, and Tom-Ruben Traavik Kvalvaag - "Artsgjenkjenning av fisk"	2021
Bachelor in computer engineering. Supervisor	

Eirik Martin Danielsen, Anders Sundstedt Langlie, Andrea Magnussen and Herman Andersen Dyrkorn - "Salamander Identification Application" Bachelor in Programming. Supervisor	2021
Morten Tingstad Spjøtvoll, André Gyrud Gunhildberget - "Dynamic seat selector for arenas" Bachelor in Programming. Supervisor	2020
Thomas Faack Bjørnstad and Vebjørn Sundli Alseth - "Deteksjon av fisk i video" Bachelor in engineering - computer science. Supervisor	2020
Espen Myrum and Simen Andre Nørstebø- "Automatisk gjenkjenning av settefisk" Bachelor in engineering - computer science. Co-Supervisor	2019
Jørgen Bakløyken, Felix Schoeler, and Hugo Nørholm - "Automated Salamander Recognition Using Deep Neural Networks and Feature Extraction " Bachelor in engineering - computer science. Co-Supervisor	2019
Even Måren Stende, Christian Hådem and Håkon Heggholmen - "Mobil app for film reading device" Bachelor in engineering - computer science . Supervisor	2018
Mahamud Ismail - "Sikring av Remote NDT" Bachelor in engineering - computer science. Supervisor	2018
Jakob Michael Voigt, Lars Michael Niebuhr, Nawar Maher Behenam, and Sahand Lahafdoozian - "Python Gamut Library" Bachelor in engineering - computer science. Supervisor	2017
SUPERVISION - OTHER PROJECTS / THESES	
Pol Triquell Lombardo - "ADHD management and Color Blindness accommodation" Supervisor	2024
Ali Mohamed Kotb Mohamed Ismail- "CNNs to measure image quality" Supervisor	2023
Leo Watine - "Enhancement of color reproduction for Pillcam endoscopy images" Supervisor. Supervised with Pål Anders Floor	2022
Valentine Charlet - "Creation of a 3D modular system for colon deformation" Supervisor. Supervised with Pål Anders Floor	2022
Anna Peppenhorst Cardoso and Ana Rita Teixeira Barreto Lamelas - "Virtual Museum" Supervisor	2019
Guillaume Assouan - "Roadcut stability analysis through real-time 3D scanning" Supervisor	2018
Marie Bertheleme - "Image processing for polyps detection in capsule endoscopy videos" Supervisor. Supervised with Ahmed Mohammed Kedir	2017
Clement Cavin and Benoit Barnoux - "Colourplay - extension" Supervisor	2017

Aurore Lanoix - "Enhancement technique for Wireless Capsule Endoscopy images" Supervisor. Supervised with Ahmed Mohammed Kedir	2016
Guilhem Zerathe and Erwan Bourrand - "Colourplay" Co-supervisor. Supervised together with Peter Nussbaum	2015
Marine Moureaux and Bastien Bettoni - "Projecting on non-uniform surface" Co-supervisor. Supervised together with Jon Yngve Hardeberg	2014

PUBLICATIONS

IDENTIFIERS AND STATISTICS

Google scholar - h-index: 27 - citations: 3069 - <http://scholar.google.com/>

ORCID - <https://orcid.org/0000-0001-9797-5821>

SCOPUS - h-index: 20 - citations: 1,870 - <https://www.scopus.com/authid/detail.uri?authorId=23985605600>

JOURNAL

Nikola Plavac, Seyed Ali Amirshahi, Marius Pedersen, and Sophie Triantaphillidou. Performance of automatic license plate recognition systems on distorted images. <i>Journal of Imaging Science and Technology</i> , pages 1–16, 2024	1
Anuja Vats, David Völgyes, Martijn Vermeer, Marius Pedersen, Kiran Raja, Daniele SM Fantin, and Jacob Alexander Hay. Terrain-informed self-supervised learning: Enhancing building footprint extraction from lidar data with limited annotations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2024	2
Ying Xu, Philipp Terhöst, Marius Pedersen, and Kiran Raja. Analyzing fairness in deep-fake detection with massively annotated databases. <i>IEEE Transactions on Technology and Society</i> , 2024	3
Olga Cherepkova, Seyed Ali Amirshahi, and Marius Pedersen. Individual contrast preferences in natural images. <i>Journal of Imaging</i> , 10(1):25, 2024	4
Petter Sagvold, Ivar Farup, and Marius Pedersen. Spatio-temporal retinex-inspired envelopes with anisotropic diffusion. <i>Journal of Imaging Science & Technology</i> , 67(6), 2023	5
Dipendra J Mandal, Marius Pedersen, Sony George, and Clotilde Boust. Comparison of pigment classification algorithms on non-flat surfaces using hyperspectral imaging. <i>Journal of Imaging Science and Technology</i> , 67:1–25, 2023	6
Ehsan Ullah, Marius Pedersen, Kjartan Sebastian Waaseth, and Bernt-Erik Baltzersen. Multi-attention guided skfhdrnet for hdr video reconstruction. <i>Journal of Imaging Science and Technology</i> , 67:1–19, 2023	7

Anuja Vats, Marius Pedersen, and Ahmed Mohammed. Concept-based reasoning in medical imaging. <i>International Journal of Computer Assisted Radiology and Surgery</i> , pages 1–5, 2023	8
Dipendra J Mandal, Marius Pedersen, Sony George, Hilda Deborah, and Clotilde Boust. An experiment-based comparative analysis of pigment classification algorithms using hyperspectral imaging. <i>Journal of Imaging Science and Technology</i> , pages 1–18, 2023	9
Anuja Vats, Ahmed Mohammed, and Marius Pedersen. From labels to priors in capsule endoscopy: a prior guided approach for improving generalization with few labels. <i>Scientific Reports</i> , 12(1):15708, 2022	10
Guoxia Xu, Hao Wang, Marius Pedersen, Meng Zhao, and Hu Zhu. Ssp-net: A siamese-based structure-preserving generative adversarial network for unpaired medical image enhancement. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2023	11
Michael Osadebey, Marius Pedersen, Meeta Kalra, Dag Waaler, and Nizar Bouguila. Enhancement of clustering techniques by coupling clustering tree and neural network: Application to brain tumour segmentation. <i>Expert Systems</i> , 40(3):e13176, 2023	12
Xinwei Liu, Marius Pedersen, and Renfang Wang. Survey of natural image enhancement techniques: Classification, evaluation, challenges, and perspectives. <i>Digital Signal Processing</i> , page 103547, 2022	13
Altynay Kadyrova, Marius Pedersen, and Stephen Westland. Effect of elevation and surface roughness on naturalness perception of 2.5 d decor prints. <i>Materials</i> , 15(9):3372, 2022	14
Altynay Kadyrova, Marius Pedersen, and Stephen Westland. What elevation makes 2.5 d prints perceptually natural? <i>Materials</i> , 15(10):3573, 2022	15
Altynay Kadyrova, Marius Pedersen, and Stephen Westland. What elevation makes 2.5 d prints perceptually natural? <i>Materials</i> , 15(10):3573, 2022	16
Guoxia Xu, Xiaoxue Deng, Xiaokang Zhou, Marius Pedersen, Lucia Cimmino, and Hao Wang. Fcfusion: Fractal componentwise modeling with group sparsity for medical image fusion. <i>IEEE Transactions on Industrial Informatics</i> , 18(12):9141–9150, 2022	17
Anuja Vats, Kiran Raja, Marius Pedersen, and Ahmed Mohammed. Multichannel residual cues for fine-grained classification in wireless capsule endoscopy. <i>IEEE Access</i> , 10:91414–91423, 2022	18
Guoxia Xu, Hao Wang, Meng Zhao, Marius Pedersen, and Hu Zhu. Learning the distribution-based temporal knowledge with low rank response reasoning for uav visual tracking. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022	19

Aliakbar Bozorgian, Marius Pedersen, and Jean-Baptiste Thomas. Modification and evaluation of the peripheral contrast sensitivity function models. <i>JOSA A</i> , 39(9):1650–1658, 2022	20
Anuja Vats, Ahmed Mohammed, and Marius Pedersen. From labels to priors in capsule endoscopy: a prior guided approach for improving generalization with few labels. <i>Scientific Reports</i> , 12(1):15708, 2022	21
Davit Gigilashvili, Philipp Urban, Jean baptiste Thomas, Marius Pedersen, and Jon Yngve Hardeberg. The impact of optical and geometrical thickness on perceived translucency difference. <i>J.Percept.Imaging.</i> , pages 000501–1 – 000501–18, 2022	22
Aladine Chetouani and Marius Pedersen. Image quality assessment without reference by combining deep learning-based features and viewing distance. <i>Applied Sciences</i> , 11(10):4661, 2021	23
Dipendra J Mandal, Sony George, Marius Pedersen, and Clotilde Boust. Influence of acquisition parameters on pigment classification using hyperspectral imaging. <i>Journal of Imaging Science & Technology</i> , 65(5), 2021	24
Davit Gigilashvili, Jean-Baptiste Thomas, Marius Pedersen, and Jon Yngve Hardeberg. On the appearance of objects and materials: Qualitative analysis of experimental observations. <i>Journal of the International Colour Association</i> , 27:26–55, 2021	25
Altynay Kadyrova, Vlado Kitanovski, and Marius Pedersen. Quality assessment of 2.5 d prints using 2d image quality metrics. <i>Applied Sciences</i> , 11(16):7470, 2021	26
Marius Pedersen and Ahmed Mohammed. Photo identification of individual salmo trutta based on deep learning. <i>Applied Sciences</i> , 11(19):9039, 2021	27
Davit Gigilashvili, Weiqi Shi, Zeyu Wang, Marius Pedersen, Jon Yngve Hardeberg, and Holly Rushmeier. The role of subsurface scattering in glossiness perception. <i>ACM Transactions on Applied Perception (TAP)</i> , 18(3):1–26, 2021	28
Davit Gigilashvili, Jean-Baptiste Thomas, Jon Yngve Hardeberg, and Marius Pedersen. Translucency perception: A review. <i>Journal of Vision</i> , 21(8):4–4, 2021	29
Michael Osadebey, Hilde K Andersen, Dag Waaler, Kristian Fossaa, Anne CT Martinsen, and Marius Pedersen. Three-stage segmentation of lung region from ct images using deep neural networks. <i>BMC Medical Imaging</i> , 21(1):1–19, 2021	30
Meng Zhao, Hao Wang, Ying Han, Xiaokang Wang, Hong-Ning Dai, Xuguo Sun, Jin Zhang, and Marius Pedersen. Seens: Nuclei segmentation in pap smear images with selective edge enhancement. <i>Future Generation Computer Systems</i> , 114:185–194, 2021	31

Marius. Pedersen and Olga Cherepkova. Content-based image quality assessment. <i>International journal of imaging and robotics</i> , 2020	32
Vlado Kitanovski, Jonny Nersveen, Anton Strand, and Marius. Pedersen. Impact of printing surfaces with uv-curable inks on sound absorption. <i>Journal of Print and Media Technology Research</i> , 2020	33
Ahmed Mohammed, Congcong Wang, Meng Zhao, Mohib Ullah, Rabia Naseem, Hao Wang, Marius Pedersen, and Faouzi Alaya Cheikh. Semi-supervised network for detection of covid-19 in chest ct scans. <i>IEEE Access</i> , 2020	34
Azeddine Beghdadi, Muhammad Ali Qureshi, Seyed Ali Amirshahi, Aladine Chetouani, and Marius Pedersen. A critical analysis on perceptual contrast and its use in visual information analysis and processing. <i>IEEE Access</i> , 2020	35
Ahmed Mohammed, Ivar Farup, Marius Pedersen, Sule Yildirim, and Øistein Hovde. Psdevcem: Pathology-sensitive deep learning model for video capsule endoscopy based on weakly labeled data. <i>Computer Vision and Image Understanding</i> , 201:103062, 2020	36
Pål Anders Floor, Ivar Farup, Marius Pedersen, and Øistein Hovde. Error reduction through post processing for wireless capsule endoscope video. <i>EURASIP Journal on Image and Video Processing</i> , 2020	37
Mohsen Jenadeleh, Marius Pedersen, and Dietmar Saupe. Blind quality assessment of iris images acquired under visible light for biometric recognition. <i>Sensors</i> , 20(5), 2020. ISSN 1424-8220. doi: 10.3390/s20051308. URL https://www.mdpi.com/1424-8220/20/5/1308	38
Steven Le Moan and Marius Pedersen. A three-feature model to predict colour change blindness. <i>Vision</i> , 3(4):61, 2019	39
Michael Osadebey, Marius Pedersen, Douglas Arnold, and Katrina Wendel-Mitoraj. Local indicators of spatial autocorrelation (lisa): Application to blind noise-based perceptual quality metric index for magnetic resonance images. <i>Journal of Imaging</i> , 5(1):20, 2019	40
Michael E Osadebey, Marius Pedersen, Douglas L Arnold, Katrina E Wendel-Mitoraj, for the Alzheimer’s Disease Neuroimaging Initiative, et al. Standardized quality metric system for structural brain magnetic resonance images in multi-center neuroimaging study. <i>BMC medical imaging</i> , 18(1):31, 2018	41
Shashi Poddar, Marius Pedersen, and Vinod Karar. Color image modification with and without hue preservation. <i>Sensing and Imaging</i> , 19(1):35, 2018	42

Michael E Osadebey, Marius Pedersen, Douglas L Arnold, and Katrina E Wendel-Mitoraj. Blind blur assessment of mri images using parallel multiscale difference of gaussian filters. <i>Biomedical engineering online</i> , 17(1):76, 2018	43
Ahmed Mohammed, Ivar Farup, Sule Yildirim, Marius Pedersen, and Øistein Hovde. Variational approach for capsule video frame interpolation. <i>EURASIP Journal on Image and Video Processing</i> , 2018(1):30, 2018	44
Svein Arne Jervell Hansen, Muhammad Nadeem Akram, Jon Yngve Hardeberg, and Marius Pedersen. Preferred image quality metric for shifted superimposition-based resolution-enhanced images. <i>Journal of Electronic Imaging</i> , 27(3):033017, 2018	45
Vlado Kitanovski and Marius Pedersen. Detection of orientation-modulation embedded data in color printed natural images. <i>Journal of Imaging</i> , 4(4):56, 2018	46
Xinwei Liu, Marius Pedersen, Christophe Charrier, and Patrick Bours. Performance evaluation of no-reference image quality metrics for face biometric images. <i>Journal of Electronic Imaging</i> , 27(2):023001, 2018	47
David Völgyes, Marius Pedersen, Arne Stray-Pedersen, Dag Waaler, and Anne Catrine Trægde Martinsen. Applicability of a clinical cardiac ct protocol in post mortem studies. <i>Journal of Forensic Radiology and Imaging</i> , 12:25–30, 2018	48
David Völgyes, Anne Catrine Trægde Martinsen, Arne Stray-Pedersen, Dag Waaler, and Marius Pedersen. Image de-quantization using plate bending model. <i>Algorithms</i> , 11(8), 2018	49
David Völgyes, Anne Catrine Trægde Martinsen, Arne Stray-Pedersen, Dag Waaler, and Marius Pedersen. A weighted histogram-based tone mapping algorithm for ct images. <i>Algorithms</i> , 11(8), 2018	50
Ahmed Mohammed, Ivar Farup, Marius Pedersen, Øistein Hovde, and Sule Yildirim Yayilgan. Stochastic capsule endoscopy image enhancement. <i>Journal of Imaging</i> , 4(6), 2018	51
Olivier Rukundo, Marius Pedersen, and Oistein Hovde. Advanced image enhancement method for distant vessels and structures in capsule endoscopy. <i>Computational and Mathematical Methods in Medicine</i> , 2017. Accepted	52
Marius Pedersen, Olga Cherepkova, and Ahmed Mohammed. Image quality metrics for the evaluation and optimization of capsule video endoscopy enhancement techniques. <i>Journal of Imaging Science and Technology</i> , 61(4):40402–1, 2017	53

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- Michael Osadebey, Marius Pedersen, Douglas Arnold and Katrina Wendel-Mitoraj, and ADNI The Alzheimers 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> 55
- 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> 56
- 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 57
- 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 58
- 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 59
- 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 60
- 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 61
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