Curriculum Vitae

3rd September 2015

Contact Information

Name	•	Ivar Farup
Office address	•	Gjøvik University College, P.O. Box 191, N-2802 Gjøvik
Phone	•	+47 61 13 52 27 (+47 61 13 51 00)
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Web	•	http://www.hig.no/~ivarf/
Home address	•	Johan Castbergs gate 22, N-2815 Gjøvik
Cellular	•	+47 916 95 718

Personal Information

Date of birth	•	14th October 1971
Place of birth	•	Bergen, Norway
Nationality	•	Norwegian
Languages	•	Norwegian (native, C2), English (fluent, C1), German
		(moderate, B1), Italian (basic, A2)

Employment History

2012-	•	Professor, Gjøvik University College
2012-2013	•	Vice Dean for Education, IMT, Gjøvik University Col-
		lege
2000–2012	•	Associate Professor, Gjøvik University College
2002-2006	•	Part-time organist at Engehaugen Church, Gjøvik
1999	•	Research Scientist at SINTEF Materials Technology,
		Oslo
1996–1999	•	PhD student, SINTEF Materials Technology, Oslo
1996	•	Research Scientist at FFI, Kjeller
1991–1994	•	Teaching assistant, Norwegian University of Science
		and Technology, Trondheim

Education

2008	•	15 ECTS Credits course in pedagogics, Gjøvik Univer-
		sity College
1997-2000	•	Dr. Scient. (PhD), University of Oslo, Institute of Math-
		ematics

- 1990–1994 · Siv.ing. (MSc), NTNU, Institute of Physics
- 1987–1990 · High school, Tranberg videregående skole, Gjøvik

PhD Students

Thomas Simon	•	Image quality enhancement for color deficient people based on color image quality enhancement and preser- vation methods (principal supervisor; to be completed 2016)
Arne M. Bakke	•	<i>Color Gamuts and Their Applications</i> (principal super- visor; to be completed 2015)
Gabriele Simone	•	Perceptual Image Difference Metrics and Rendering of High Dynamic Range Images (co-supervisor; to be completed 2015)
Dibakar Raj Pant	•	<i>Variational Methods for Colour Difference Metrics</i> (principal supervisor; completed spring 2012)

International Experience

- 2005 · Four month's stay (January–May) as a visiting researcher at Università degli studi di Milano (Italy).
- 1999 · Four month's stay (February–June) as a visiting researcher at Ecole Polytechnique Federale de Lausanne (EPFL, Switzerland).

Awards

- 2012 · Awarded the Charles E. Ives award from IS&T together with Øyvind Kolås and Alessandro Rizzi.
- 2012 Awarded the best paper award at CGIV 2012 with Gabriele Simone.
- 2012 · Awarded the regional R&D prize with the Norwegian Color and Visual Computing Laboratory.

Conferences and Reviewing

2013		Member of the Technical Program Committee, AIC
2013		2013 Publication Chair and member of the Program Com-
0010		mittee, CVCS 2013
2013		
		Reviewer, IEEE ICIP2012
		Member of the Program Committee, VISAPP 2012
2012	•	Session chair and member of the Program Committee, CGIV 2012
2012-	•	Reviewer for IEEE Transactions on Control Systems Technology
2011		
		Reviewer for Signal, Image and Video Processing
		Reviewer for EURASIP Journal on Advances in Signal
		Processing
2011-		0
		Reviewer and member of the technical program com-
		mittee, EUVIP2011
2011		
		mittee, IMAGAPP2011
2011		
		Shaohua Chen, Université Paris 13
2011		Reviewer, SCIA2011
2010-		
2010		General Chair for the CREATE2010 conference
		Reviewer, IWACI2010
2010		
		EUVIP2010
2010-		Reviewer, Journal of the Optical Society of America A
		Session Chair, member of the program comittee, and
		reviewer, SCIA2009
2009		Session Chair, CREATE Workshop, Vesprem, Hungary
2008-		
		logy
2007-		Reviewer for IEEE Transactions on Image Processing
2007-		Reviewer for Color Research and Application
2007		Interactive Session Chair, IS&T/SID's Fifteenth Color
		Imaging Conference, Albuquerque, New Mexico, USA,
		5th–9th November
2007		Session Chair, CREATE Conference, Bristol, 18th-20th
		September
2007		-
2006		,
		degli Studi di Milano, Italy
2005-	•	5
2000-2002		Reviewer for Materials Science & Engineering

Projects, Consorita and Funding

2013-2016	•	Sub-programme leader for the project HyPerCept –
		Color and Quality in Higher Dimensions, funded by
		NFR over the SHP programme.
2010-	•	Member of CIE's Technical Committe "TC 1-82: The
		Calculation of Colour Matching Functions as a Func-
		tion of Age and Field Size"
2007-2010	•	Member of the board of the CREATE (Marie Curie)
		network and also contributed to the application. With
		University of the West of England (UK), University of
		Milan (Italy), University of Veszprém (Hungary), Uni-
		versité de Reims Champagne-Ardenne (France), Uni-
		versitat Autonoma de Barcelona (Spain), University of
		Leeds (UK), University of Ulster at Belfast (UK)
2007-2013		Member of the Quality Assurance, Evaluation and Su-
		pervision Board of the CIMET (Erasmus Mundus) In-
		ternational Master. With University of Saint-Etienne
		(France), University of Joensuu (Finland), University
		of Granada (Spain).
2007-2011	•	Participating (also to the application) in the project
		Perceptual image difference metrics – a unifying ap-
		proach to image representation and reproduction fun-
		ded by NFR over the SHP programme
2007-2009	•	Project leader and participant (also to the application)
		for the project Measuring color with a color acquisition
		<i>system</i> for Tomra ASA
2004–2007	•	Participating (also to the application) in the project
		Multispectral color imaging funded by NFR over the
		SHP programme
2004–2005	•	Project leader and participant (also to the application)
		for the industry project Color Calibration of an Elec-
		tronic Camera System for Object Recognition for Tomra
		ASA
2003–2004	•	Participating (also to the application) in the project
		ICC3D: Interaktiv fargeomfangstilpasning, metrikker
		for fargeomfang og tilretteleggelse for kommersialiser-
		<i>ing</i> funded by Prokom
2002–2003	•	Participating (also to the application) in the project
		Fargestyring i produksjon og presentasjon av digital
		<i>video</i> funded by Prokom
2001	•	Participating (also to the application) in the project
		Bare Illusjon? Fargestyring i produksjon og presentas-
		<i>jon av levende bilder</i> funded by Prokom

Teaching

2014, 2015	•	Introduction to Engineering Gjøvik University College,
		lecturing and supervision, examination.
2014	•	Computational Image Processing (PhD level, once),
		Gjøvik University College, lecturing and course re-
		sponsible, supervising seminars and grading final pa-
		pers.
2013, 2014		
,		Gjøvik University College, responsible for the course,
		lecturing, supervising student exercise classes, making
		and grading exams.
2010-2012		
2010 2012		level, 3 times), Gjøvik University College, responsible
		for the course, and since 2011 lecturing, supervising
		student exercise classes, making and grading exams.
2009		
2009	•	University College, lecturing and course responsible,
2004 2007 2000		supervising seminars and grading final papers. Mathematics 40: discrete transforms (master level, 4
2004, 2007–2009	·	
		times), Gjøvik University College, lecturing and re-
		sponsible for the course, supervising student exercise
0000		classes, making and grading exams.
2008	•	8
		once), Gjøvik University College, lecturing and re-
		sponsible for the course, supervising student exercise
		classes, making and grading exams. Part of the CIMET
		programme.
2002–2005	·	
		College, lecturing and responsible for the course, su-
		pervising student exercise classes, making and grading
		exams.
2004	·	Fundamental Programming (bachelor level, once),
		Gjøvik University College, supervising student exercise
		classes.
2000-2002	•	Algorithms II (bachelor level, 3 times), Gjøvik Univer-
		sity College, lecturing and responsible for the course,
		supervising student exercise classes, making and grad-
		ing exams.
2001		Distributed Operating Systems (bachelor level, once),
		Gjøvik University College, lecturing and responsible
		for the course, supervising student exercise classes,
		making and grading exams.
2000	•	
		Gjøvik University College, supervising student exercise
		classes. 5
1002 1004		Fundamental Division (hashalar lavel 2 times) Nor

- 1992–1994 · Fundamental Physics (bachelor level, 2 times), Norwegian University of Science and Technology, supervising student exercise classes.
 - 2000– · Various short courses, tutorials and workshops on theoretical computer science, LATEX, GNU/linux, Matlab, ICC3D, Emacs etc., as well as guest lectures in various courses. Giøvik University College.

Publications

Journal Papers

Ivar Farup. Hyperbolic geometry for colour metrics. *Optics Express*, 22(10):12369–12378, 2014.

Ivar Farup. Constructing an optimal circulating temperament based on a set of musical requirements. *J. Math. Music*, 8(1):25–39, 2014.

Gabriele Simone, Giuseppe Audino, Ivar Farup, Fritz Albregtsen, and Alessandro Rizzi. Termite Retinex: A new implementation based on a colony of intelligent agents. *J. Electron. Imaging*, 23(1):013006, 2014. doi: 10.1117/1.JEI.23.1.013006.

Gabriele Simone, Marius Pedersen, Ivar Farup, and Claudio Oleari. Multi-level contrast filtering in image difference metrics. *EURASIP J. Image Video Process.*, 2013(39), 2013. doi:10.1186/1687-5281-2013-39.

Dibakar R. Pant and Ivar Farup. Geodesic calculation of color difference formulas and comparison with the Munsell color order system. *Color Res. Appl.*, 38(4):259–266, 2013.

Dibakar R. Pant and Ivar Farup. Riemannian formulation and comparison of color difference formulas. *Color Res. Appl.*, 37(6):429–440, December 2012.

Øyvind Kolås, Ivar Farup, and Alessandro Rizzi. STRESS: A framework for spatial color algorithms. *J. Imaging. Sci. Technology*, 55(4):040503, 2011.

Arne M. Bakke, Ivar Farup, and Jon Y. Hardeberg. Evaluation of algorithms for the determination of color gamut boundaries. *J. Imaging. Sci. Technology*, 54(5):050502–11, 2010.

Fabienne Dugay, Ivar Farup, and Jon Y. Hardeberg. Perceptual evaluation of color gamut mapping algorithms. *Color Res. Appl.*, 33(6):470–476, 2008.

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

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

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

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

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

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

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

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

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

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

Peer-Reviewed Conference Papers

Joschua Simon-Liedtke and Ivar Farup. Empirical disadvantages for color-deficient people. In *Proceedings of the AIC*, 2015. (Accepted).

Phil Green, Srikrishna Nuduramati, and Ivar Farup. Variability in colour matches between displays. In *Proceedings of the AIC*, 2015. (Accepted).

Emmanuel Chevallier, Ivar Farup, and Jesús Angulo. Histograms of images valued in the manifold of colors endowed with the perceptual metric. In *Proceedings of the 2nd conference on Geometric Science of Information*, 2015. (Accepted).

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

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

Khai Van Ngo, Jehans J Storvik, Christopher A Dokkeberg, Ivar Farup, and Marius Pedersen. QuickEval: a web application for psychometric scaling experiments. In *IS&T/SPIE Electronic Imaging*, pages 939600–939600. International Society for Optics and Photonics, 2015.

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

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

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

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

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

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

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

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

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

Gabriele Simone, Giuseppe Audino, Ivar Farup, and Alessandro Rizzi. Termites: A Retinex implementation based on a colony of agents. In *Color Imaging XVII: Displaying, Processing, Harcopy, and Applications*, pages 82920N–82920N, 2012. Erik Hjelmås and Ivar Farup. A common framework for scripting tutorials. In *Norsk Informatikkonferanse, NIK*, pages 219–229. Tapir Akademisk Forlag, 2011.

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

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

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

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

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

ABM Tariqul Islam and Ivar Farup. Enhancing the output of spatial color algorithms. In *Proceedings of EUVIP*, pages 7–12, Paris, France, July 2010.

Arne Magnus Bakke and Ivar Farup. Simplified gamut boundary representation using mesh decimation. In *5th European Conference on Colour in Graphics, Imaging, and Vision (CGIV),* pages 459–465, Joensuu, Finland, June 2010.

Dibakar R. Pant and Ivar Farup. Evaluating color difference formulae by Riemannian metric. In *5th European Conference on Colour in Graphics, Imaging, and Vision (CGIV)*, pages 497–503, Joensuu, Finland, June 2010.

Gabriele Simone, Claudio Oleari, and Ivar Farup. Performance of the Euclidean color-difference formula in log-compressed OSA-UCS space applied to modified-image-difference metrics. In *11th Congress of the International Colour Association (AIC)*, Sydney, Australia, Sep 2009.

Gabriele Simone, Marius Pedersen, Jon Yngve Hardeberg, and Ivar Farup. On the use of gaze information and saliency maps for measuring perceptual contrast. In Arnt-Børre Salberg, Jon Yngve Hardeberg, and Robert Jenssen, editors, *Image Analysis, 16th Scandinavian Conference, SCIA 2009*, volume 5575 of *Lecture Notes in Computer Science*, pages 597–606, Oslo, Norway, June 15-18 2009.

Gabriele Simone, Claudio Oleari, and Ivar Farup. An alternative color difference formula for computing image difference. In *Proceedings from Gjøvik Color Imaging Symposium 2009*, number 4 in Høgskolen i Gjøviks rapportserie, pages 8–11, Gjøvik, Norway, Jun 2009.

Ali Alsam and Ivar Farup. Colour gamut mapping as a constrained variational problem. In Arnt-Børre Salberg, Jon Yngve Hardeberg, and Robert Jenssen, editors, *Image Analysis, 16th Scandinavian Conference, SCIA 2009*, volume 5575 of *Lecture Notes in Computer Science*, pages 109–117, Oslo, Norway, June 15-18 2009.

Arne M. Bakke, Ivar Farup, and Jon Y. Hardeberg. Predicting the performance of a spatial gamut mapping algorithm. In *Color Imaging XIV: Displaying, Hardcopy, Processing, and Applications; Proceedings of SPIE Volume 7241,* San Jose, CA, Jan 2009.

Arne M. Bakke, Ivar Farup, and Jon Y. Hardeberg. Improved gamut boundary determination for color gamut mapping. In *Proceedings of the 35th International Research Conference on Advances in Printing and Media (iarigai)*, pages 365–372, 2008.

Øyvind Kolås and Ivar Farup. Efficient hue-preserving and edge-preserving spatial color gamut mapping. In *15th Color Imaging Conference*, pages 207–212, 2007.

Arne M. Bakke, Jon Y. Hardeberg, and Ivar Farup. Evaluation of gamut boundary descriptors. In *Proceedings of IS&T and SID's 14th Color Imaging Conference: Color Science and Engineering: Systems, Technologies, Applications,* pages 50–55, Scottsdale, Arizona, 2006.

Arne M. Bakke, Ivar Farup, and Jon Y. Hardeberg. Multispectral gamut mapping and visualization – a first attempt. In *Color Imaging X: Processing, Hardcopy, and Applications; Electronic Imaging Symposium,* pages 193–200, San Jose, CA, USA, January 2005.

Eriko Bando, Jon Y. Hardeberg, David Connah, and Ivar Farup. Predicting visible image degradation by colour image difference formulae. In *The 5th International Conference on Imaging Science and Hardcopy*, volume 25 of *Chinese Journal of Scientific Instrument*, pages 121–124, Xi'an, China, September 2004.

Ivar Farup, Jon Y. Hardeberg, and Morten Amsrud. Enhancing the SGCK colour gamut mapping algorithm. In *Color in Graphics, Imaging and Vision (CGIV)*, Aachen, 2004.

Ivar Farup, Thorstein Seim, Jan H. Wold, and Jon Y. Hardeberg. Generating stimuli of arbitrary spectral power distributions for vision and imaging research. In *Human Vision and Electronic Imaging IX*, volume 5292 of *SPIE Proceedings*, pages 69–79, Bellingham WA, January 2004. SPIE.

Jon Y. Hardeberg, Ivar Farup, and Gudmund Stjernvang. Digital cinema commercials in Norway – is the quality good enough? In *The SMPTE'03 International Conference, D-Cinema and Beyond*, Milano, Italy, November 2003.

Øyvind Kolås and Ivar Farup. Increasing assignment motivation using a game AI tournament. In *The 8th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE'03)*, page 269, Thessaloniki, Greece, July 2003.

Jon Y. Hardeberg, Ivar Farup, Øyvind Kolås, and Gudmund Stjernvang. Color management for digital video: Color correction in the editing phase. In 29th International iarigai Research Conference. Proceedings: Advances in Graphic Arts & Media Technology, Lucerne, Switzerland, September 2002.

Ivar Farup, Jon Y. Hardeberg, Arne M. Bakke, Ståle Kopperud, and Anders Rindal. Visualization and interactive manipulation of color gamuts. In *Proceedings of IS&T and SID's 10th Color Imaging Conference: Color Science and Engineering: Systems, Technologies, Applications*, pages 250–255, Scottsdale, Arizona, 2002.

Ivar Farup and Jon Y. Hardeberg. Interactive color gamut mapping. In *The 11th International Printing and Graphics Arts Conference*, Bordeaux, France, October 2002.

Erik Hjelmås and Ivar Farup. A comparison of face/non-face classifiers. In *Proceedings of the 3rd International Conference on Audio- and Video-based Biometric Person Authentication*, 2001. (Lecture Notes in Computer Science vol. 2091, pp. 65-70, 2001).

Pierre-Daniel Grasso, Jean-Marie Drezet, Ivar Farup, and Michel Rappaz. Direct observation of hot tear formation in organic alloys. In *EUROMAT*, 2001.

Asbjørn Mo and Ivar Farup. Hot tearing and thermally induced deformation in the mushy zone. In I P. R. Sahm, P. N. Hansen, and J. G. Conley, editors, *Modelling of Casting, Welding and Advanced Solidification Processes IX (SIM 2000)*, pages 56–62. Shaker Verlag, 2000.

Michel Rappaz, Ivar Farup, and Jean-Marie Drezet. Study and modeling of hot tearing formation. In R. Abbaschian, H. D. Brody, and A. Mortensen, editors, *The Merton Flemings Symposium on Solidification and Materials Processing*, page 213, MIT, Cambridge, Massachusetts, June 2000. TMS Public, Warrendale, PA.

Ivar Farup and Asbjørn Mo. Two-phase modelling of mushy zone parameters associated with hot tearing. In A. Roósz, M. Rettenmayr, and D. Watring, editors, *Third international conference on solidification and gravity*, pages 377–382, Miskolc, Hungary, April 1999. (Materials Science Forum, vol. 329-3, pp. 377-382, 2000).

Asbjørn Mo, Ivar Farup, and Jean-Marie Drezet. Inhomogeneities in the stress and strain rate fields during Gleeble testing. In J. L. Chenot, J. F. Agassant, P. Montmitonnet, B. Vergnes, and N. Billon, editors, *First ESAFORM Conference on Material Forming*, pages 29–32, Sophia Antipolis, France, March 1998. ESAFORM.

Book Chapters

Gabriele Simone, Davide Gadia, Ivar Farup, and Alessandro Rizzi. Ant colony for locality foraging in image enhancement. In Mrutyunjaya Panda Satchidananda Dehuri, Alok Kumar Jagadev, editor, *Multi-objective Swarm Intelligence: Theoretical Advances and Applications*, volume 592 of *Studies in Computational Intelligence*, pages 123–142. Springer, Berlin, Heidelberg, 2015.

Theses

Ivar Farup. *Thermally induced deformations and hot tearing during direct chill casting of aluminium.* PhD thesis, University of Oslo, Oslo, Norway, 2000.

Ivar Farup. Vacuum energy and inertial dragging. Master's thesis, Norwegian University of Science and Technology, Trondheim, Norway, 1994.

Supervised Master Theses

Gerardo Diego de La Riva. Real-time facial-expression interpretation for controlling sound effect parameters. Master's thesis, Gjøvik University College, 2013.

Jørn Skjerven. The performance of image difference metrics for rendered HDR images. Master's thesis, Gjøvik University College, 2011.

ABM Tariqul Islam. Spatio-temporal colour correction of strongly degraded films. Master's thesis, Gjøvik University College, 2010.

Thomas Lenoir. Implementing and training face detection algorithms. Master's thesis, Gjøvik University College, 2008.

Jon Anders Øvern. Film restoration using ACE extensions. Master's thesis, Gjøvik University College, 2007.

Fabienne Dugay. Perceptual evaluation of colour gamut mapping algorithms. Master's thesis, Gjøvik University College, 2007.

Arne M. Bakke. Visualisering av multispektrale fargedata (Visualization of multispectral color data). Master's thesis, Gjøvik University College, Norway, 2004.

Øyvind Bjerkvik. Automatisk korreksajon av røde øyne i digitale bilder (Automatic redeye effect correction in digital images). Master's thesis, Gjøvik University College, Norway, 2004.

Morten Amsrud. Forbedring og evaluering av algoritmer for fargeomfangstilpasning (Improvement and evaluation of color gamut mapping algorithms). Master's thesis, Gjøvik University College, Norway, 2003.

Supervised Bachelor Theses

Dennis A. Ø. Gjerdingen, Pål A. Storsveen, and Trine J. Storsveen. Stuttreist: din lokale reiseguide. Bachelor's thesis (BSc Software Engineering), Gjøvik University College, Norway, 2015.

Jan Fredrik Gundersen and Sondre T. Johannessen. Facebook: integrering av sosiale spill. Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2015.

Lars Dølvik and John Christian G. Fjeld. Wearables. Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2015.

Khai Van Ngo, Christopher André Dokkeberg, and Jehans Jr. Storvik. Quickeval. Bachelor's thesis (BSc Software Engineering), Gjøvik University College, Norway, 2014.

Bratislav Arandjelovic. DVD-A plateinnspilling med surroundteknikk. Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2010.

Tomas Hensrud Gulla and Haakon Sporsheim. iSlideS – Slideshowgenerator (Slide show generator). Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2004. *Awarded the Rosing student prize and the Eureka prize*.

Lars Petter Madsstuen, Mads Nyborg, and Maria S. Wroldsen. Interaktiv visualisering av kaustikkmønstre (Interactive visualisation of caustics). Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2004. Kai Erland Thelin, Leif Eirik Lislegård, and Marius Mickelson. Present with confidence. Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2004.

Torkjel Søndrol, Lars Erik Hoel, Trond Aspelund, and Jørn Skjerven. Styringsprogram for spektralintegrator (Executive software for a spectral integrator). Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2003.

Mantas Malakauskas and Gediminas Montvilas. Panel testing for image quality. Bachelor's thesis (BEng Computer Science), Gjøvik University College, Norway, 2003.

Bjørnar Borg, Martin Brekke, Anders Enger Jensen, and Gjermund Stensrud. Softproofing av videomonitorer (Soft proofing of video monitors). Bachelor's thesis (BEng Graphic Arts), Gjøvik University College, Norway, 2003.

John Inge Førland, Henning Døvre, Robert Czari, and Rune Hofslundsengen. Digital kinoreklame (Digital cinema commercials). Bachelor's thesis (BEng Graphic Arts), Gjøvik University College, Norway, 2003.

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