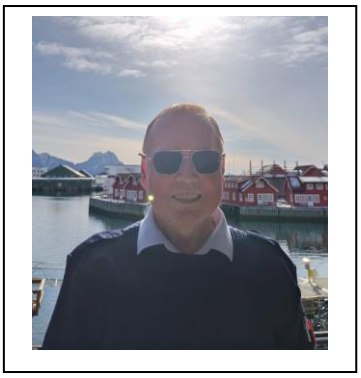
CURRICULUM VITAE

PERSONALIA



Name:	Egil Pedersen
Date and Place of Birth:	27th September 1967 Hadsel, Norway
Address:	Parkgata 10 NO-8300 Svolvær
Telephone:	+47 92 44 85 99
E-mail:	egil.pedersen@uit.no

PROFILE SUMMARY

Professor Dr.ing. Egil Pedersen has 25+ years of experience in academic leadership, strategic development of higher education, and is an experienced professor who combines deep subject knowledge of marine technology / maritime operations with proven results from strategic roles in accreditation processes and institutional development.

Key Competencies:

Strategic Educational Leadership & Accreditation

Chair of a national, accredited PhD programme in Nautical Operations. He led the full accreditation process for NOKUT and has served on committees for NOKUT and its Estonian counterpart. Proven understanding of quality assurance requirements in higher education.

Academic Leadership & Administration

Former Head of Research and member of the management team of Department of Technology and Safety, UiT. Responsible for research strategy, budgeting, and temporary personnel. Extensive experience in building and leading study programmes at master and PhD levels.

Understanding of the Armed Forces

Associated with the Royal Norwegian Naval Academy through an adjunct position as Associate Professor (2000 – 2003), teaching officers from the Naval Academy at master's level at NTH/NTNU (1990 – 2011) and co-supervising one of the Armed Forces' own PhD candidates. Practical operational experience from the maritime industry.

Results-Oriented R&D-Based Education

Conducts research that is relevant to the operational needs of the Armed Forces, especially in complex maritime operations in challenging environments. Experienced in translating research into practical solutions for the maritime business sectors.

Leadership & Collaboration

Proven ability to lead across institutional boundaries, bridge academia and practice, and motivate researchers and professional staff.

PROFESSIONAL EXPERIENCE

01/2012 ~ present

Professor of Technology (*associated with maritime operational activities*).

Head of Research and Member of the Leadership Group of the Department (01/2012 ~ 12/2014).
Department of Technology and Safety,
UiT The Arctic University of Norway, Tromsø, Norway.

08/2013 ~ 07/2025

Professor II of Nautical Science.

Department of Machine and Maritime Studies,
Western Norway University of Applied Sciences, Haugesund, Norway.

02/2020 ~ 03/2020

Guest Professor of Marine Technology.

Research on Advanced Marine Seismic Operations and Icebreaking Pattern for Sea Ice Management.
Department of Naval Architecture and Ocean Engineering,
University of Osaka, Osaka, Japan.

09/2003 ~ 06/2013

(Part-time: 01/2012 ~ 06/2013)

Professor of Marine Technology (*specialization Nautical Science*).

Head of the MSc Study Programme in Nautical Science.
Department of Marine Technology,
Faculty of Engineering Science and Technology,
Norwegian University of Science and Technology, Trondheim, Norway.

03/2007 ~ 06/2007

Guest Professor of Marine Technology.

Research on Operational and Control Aspects of Ship-to-Ship Operations.
Faculty of Marine Technology,
Tokyo University of Marine Science and Technology, Tokyo, Japan.

06/2002 ~ 12/2003

Post-doc Research Fellow.

Research on Visualization-based Collision Avoidance Support System Designed for High-speed Craft Operations in Congested Waterways.
National Maritime Research Institute, Tokyo, Japan.

09/2000 ~ 08/2003

Assoc. Professor II of Nautical Science.

Navy Ship Handling Training Center,
Royal Norwegian Navy Academy, Bergen, Norway.

01/2000 ~ 03/2002

Assoc. Professor II of Nautical Science.

Research on Anti-collision Systems with Application of the ES-model for Objective Assessment of Simulator-based Exercises.
Kobe University of Mercantile Marine, Kobe, Japan.

03/1997 ~ 08/1997

Post-doc Research Fellow.

Research on Errors in Radar Plotting Results because of Different Measurement Points on Target Echo.
Marine Technical College, Ashiya-city, Japan.

06/1996 ~ 12/1999

Nautical Engineer.

Technical Department,
Petroleum Geo-Services Exploration AS, Oslo, Norway.

1990 ~ 1999 (on an occasional basis)

Technical Specialist.

Onboard seismic research vessels:

Ramform Challenger (6 months; 1999).
Ramform Viking (1 month; 1999).
Ramform Vanguard (1 month; 1998).
Nordic Explorer (1 month; 1994).
Geco Tau (2 months; 1990).

1984 ~ 1987 (on a seasonal basis)

Fisherman.

Onboard fishing vessels:

Østbas – prawn trawler (2 months; 1987).
Christina Johnsen – purse seiner (2 months; 1984 and 1985).
Roger – net boat (8 months; 1983 – 1989).

EDUCATION

1991 ~ 1996

Dr.ing. Study Programme in Marine Technology.
Awarded the Doctor of Engineering Degree *Doktor ingeniør* in March 1997,
Department of Marine Hydrodynamics,
Norwegian Institute of Technology / Norwegian University of Science and Technology.

1987 ~ 1989

Nautical Study Programme.
Awarded the Royal Norwegian Academic Degree *Maritim kandidat* in October 1990,
Department of Marine Technology,
Norwegian Institute of Technology.

1985 ~ 1987

Chief Officer Study Programme.
Awarded Diploma in partial fulfillment of the req. for the *Chief Officer's license*,
Department of Maritime Studies,
Trondheim Maritime College.

1983 ~ 1985

Navigation Officer Study Programme.
Awarded Diploma in partial fulfilment of the requirements for the *Deck Officer*'s license,
Nordland Fishery School.

MISCELLANEOUS

2009 ~ present

Member of the Scientific Programme Committee of the TransNav; *The International Journal on Marine Navigation and Safety of Sea Transportation*.
Gdynia Maritime University, Poland.

2004 ~ present

Member and/or Administrator of Evaluation Committees for various academic positions (PhD fellowships, Associate Professorships, Adjunct Professorships, Professorships) in the fields of Marine Technology/Nautical Science at the Norwegian University of Science and Technology, University of South-Eastern Norway, Western Norway University of Applied Sciences, UiT The Arctic University of Norway.

2023

Member of the PhD Committee for Rami Ghaleb Abelminem Zghyer. PhD thesis: *The Role of Ship Simulators and Maneuvering Models in Maritime Operations*.
Department of Ocean Operations and Civil Engineering,
Norwegian University of Science and Technology.

2019 ~ 2020

Member of the International Assessment and Recognition Group for the Transportation Studies at TalTech (Tallin University of Technology).
Estonian Quality Agency for Higher and Vocational Education (EKKA), Estland.

2016 ~ 2018

Chairman of the Board of the PhD Programme in Nautical Operations - A national joint degree between Western Norway University of Applied Sciences, University of South-Eastern Norway, Norwegian University of Science and Technology and UiT The Arctic University of Norway.

2014 ~ 2016

Chairman of the International Assessment and Recognition Group for the Maritime Studies at Buskerud and Vestfold College, and Fagskolen i Vestfold.
The Norwegian Agency for Quality Assurance in Education (NOKUT).

2013 ~ 2017

Elected Scientific Member of the Board of Faculty of Science and Technology.
UiT The Arctic University of Norway.

2012

Member of the Technical Committee on Human-Centered Transportation Systems for the IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2012). Seoul, 14 ~ 17 October, 2012.

Expert Witness, U.S. Federal District Court in Houston. Served as prior-art expert in a major patent litigation concerning steering technology for towed marine seismic streamer configureations. Case settled same day testimony was scheduled, preventing industry-wide monopoly in U.S. waters.

2011

Member of the Scientific Committee for the 2nd International Conference on Ship Manoeuvring in Shallow and Confined Waters. Trondheim, 18 ~ 20 May, 2011.

Member and Administrator of the PhD Committee for Karl Gunnar Aarsæther. PhD thesis: *Modeling and Analysis of Ship Traffic by Observation and Numerical Simulation*.
Department of Marine Technology,
Norwegian University of Science and Technology.

2010

Member of the Technical Committee on Human-Centered Transportation Systems for the IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2010). Istanbul, 10 ~ 13 October, 2010.

2009

Chair of Session (Risk, Safety and Reliability) at the 19th International Offshore and Polar Engineering Conference (ISOPE 2009). Osaka, 23 June, 2009.

2008

Member of the Technical Committee on Human-Centered Transportation Systems for the IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2008). Singapore, 12 ~ 15 October, 2008.

2007 ~ 2011

Head of the Work Package on Nautical Aspects and Guidance System Design of the research project: *Investigating Hydrodynamic Aspects and Control Strategies for Ship-to-Ship (STS) Operations*. The research program was funded by the Norwegian Research Council and industrial partners.

2007

Member and Administrator of the PhD Committee for Vegar Johansen. PhD thesis: *Modelling Flexible Slender Systems for Real-time Simulation and Control Applications*.
Department of Marine Technology,
Norwegian University of Science and Technology.

Member of the PhD Committee for Bjarte Knappen Røed. PhD thesis: *Designing for High-speed Ships*.
Department of Product Design,
Norwegian University of Science and Technology.

2006 ~ 2009

Member of the User Group Committee of NTNU's Research Vessel *Gunnerus*.

2006

Member and Administrator of the PhD Committee for Karl-Johan Reite. PhD thesis: *Modelling and Control of Trawl Systems*.
Department of Marine Technology,
Norwegian University of Science and Technology.

Reviewer of the 16th International Offshore and Polar Engineering Conference (ISOPE 2006). San Francisco, 28 May ~ 02 June, 2006.

2004

Member and Administrator of the PhD Committee for Yilmaz Turkyilmaz. PhD thesis: *Modelling and Control of Towed Seismic Cables*.
Department of Engineering Cybernetics,
Norwegian University of Science and Technology.

2001

Awarded the JSPS Post-doctoral Fellowship for Foreign Researchers. Japan Society for the Promotion of Science (JSPS).

1997

Awarded the Science and Technology Agency (STA) Fellowship. Japan International Science & Technology Exchange Center (JISTEC).

1993 ~ present

Founder and CEO of Nautical Technology Consultants AS (Reg. No. 966 899 824 MVA).

Product developed and distributed:

UKC Manager – a software application for planning safe speed for ships transiting shallow waters and channels. The product is approved by the Australian Maritime Safety Authority to replace their own UKC calculation and is in use onboard many hundred vessels (tankers, bulk carriers, container ships) worldwide.

Services provided:

Modelling and simulation of various marine operations.

Clients:

Domestic and international clients in business areas for marine seismic and oil service companies (Norway, UAE, China, Russia), ship management companies and shipowners (Norway, Denmark, Germany, Greece, USA, Canada, Chile, UAE, Singapore, Korea, Japan, Malaysia).

PATENTS

2006

US Patent No. 7,047,898 B2: *System for Controlling Streamers* by Egil Pedersen, Rolf Rønningen, Svein Johnny Naley. Petroleum Geo-Services AS.

Norwegian Patent NO321016B1: *System for controlling cables in a seismic tow and where some of the cables have control units designed to paint and report on their positions* by Rolf Rønningen, Egil Pedersen, Svein Johnny Naley. Petroleum Geo-Services AS.

2004

UK Patent GB2390589B: *System for Controlling Streamers* by Egil Pedersen, Svein Johnny Naley, Rolf Rønningen. Petroleum Geo-Services AS.

1998

Norwegian Patent NO 303054B1: *Depth-controller* by Egil Pedersen & Einar Nielsen. Petroleum Geo-Services AS.

LECTURING EXPERIENCE/RESPONSIBILITIES

PhD Courses

2016 ~ 2020 (joint responsibility and one of several lecturers)

MFA-8010 *Maritime HTO & Innovation* (10 ECTS).
UiT The Arctic University of Norway.

2016 ~ present (responsible and sole lecturer)

MFA-8020 *Advanced Maritime Operations* (5 ECTS).
UiT The Arctic University of Norway.

2017 ~ present (responsible and one of several lecturers)

MFA-8030 *Maritime Technologies in Polar Waters* (10 ECTS).
UiT The Arctic University of Norway.

2018 ~ 2020 (one of several lecturers)

AGF-819 *Shipping in the Arctic* (5 ECTS).
The University Centre in Svalbard.

Master Courses

2018 ~ present (responsible and sole lecturer)

TEK-3011 *Ship Stability* (10 ECTS).
UiT The Arctic University of Norway.

2017 ~ 2022 (responsible and sole lecturer)

MMO-5009 *Maritime Operations in Ocean Space* (10 ECTS).
Western Norway University of Applied Sciences.

2017 ~ present (responsible and one of several lecturers)

TEK-3030 *Maritime Technologies in Polar Waters* (10 ECTS).
UiT The Arctic University of Norway.

2015 ~ present (responsible and sole lecturer)

TEK-3010 *Marine Operations in the Ocean Space* (10 ECTS).
UiT The Arctic University of Norway.

1990 ~ 2011 (lecturer since 1990 and responsible since 2004)

Graduate courses in *Nautical Science*.
Norwegian Institute of Technology / Norwegian University of Science and Technology.

Bachelor Courses

2013 ~ present (responsible and sole lecturer)

MFA-2011 *Ship Hydrodynamics* (10 ECTS).
UiT The Arctic University of Norway.

2000 ~ 2003 (lecturer)

Undergraduate courses in *Navigation Systems* and *Ship Technology*.
Royal Norwegian Navy Academy.

1991 ~ 1994 (invited lecturer)

Undergraduate courses in *Navigation Systems, Ship Technology, Fish Farming Structures*.
Tromsø Maritime College.

SUPERVISION EXPERIENCE

2007 ~ present

Co-supervisor for the PhD students:

Siv Engen (graduated in September 2022)

PhD thesis: *Conceptual Modeling for Architectural Reasoning in the Energy Domain*.
University of South-Eastern Norway.

Brian Murray (graduated in May 2021)

PhD thesis: *Machine Learning for Enhanced Maritime Situation Awareness: Leveraging Historical AIS Data for Ship Trajectory Prediction*.
UiT The Arctic University of Norway.

Odd Sveinung Hareide (graduated in April 2019)

PhD thesis: *The use of Eye Tracking Technology in Maritime High-Speed Craft Navigation*.
Norwegian University of Science and Technology.

Jan Vidar Grindheim (graduated in December 2018)

PhD thesis: *Modelling, Prediction and Control of Marine Towed Seismic Streamers*.
Norwegian University of Life Sciences.

Dagfinn Husjord (graduated in November 2015)

PhD thesis: *Guidance and Decision-support System for Safe Navigation of Ships Operating in Close Proximity*.
Norwegian University of Science and Technology.

2004 ~ present

Supervisor for about 25 master students at the Norwegian University of Science and Technology (Dept. of Marine Technology), UiT The Arctic University of Norway (Dept. of Technology and Safety), University of South-Eastern Norway (Dept. of Maritime Operations) and Western Norway University of Applied Sciences (Dept. of Machine and Maritime Studies).

2025

Host of Dr. Junji Sawamura of University of Osaka, Japan.

Research topic*: Ice Motion and Ice Force on a Ship in Small Ice Floes and Regular Waves*.
UiT The Arctic University of Norway.

2014

Host of Dr. Junji Sawamura of Osaka University, Japan.

Research topic: *Numerical Simulation of Ship-Ice Interaction for an Icebreaker Advancing in Ice-covered Waters*.
UiT The Arctic University of Norway.

2011 ~ 2013

Supervisor of post-doc Dr. Ju Young Kang.

Research project: *Improved ship design and operation, by operational data aggregation, key performance indices and numerical optimization* (ImproVEDO). The research program was funded by the Norwegian Research Council and industrial partners.
Norwegian University of Science and Technology / UiT The Arctic University of Norway.

2012

Host of Dr. Kensuke Kirimoto.

Research topic*: On Safety Assessment of Ship-to-Ship Lightering Operation based on Collision Danger Zone due to Interaction Effects*.
UiT The Arctic University of Norway.

2009 ~ 2011

Supervisor of post-doc Dr. Kensuke Kirimoto.

Research topic: *Development of Decision-support System based on Hydrodynamic Interaction in STS Operations.* The research program was funded by the Norwegian Research Council and industrial partners.
Norwegian University of Science and Technology.

2007 ~ 2009

Supervisor of post-doc Dr. Yunja Yoo.

Research topic: *Velocity Information GPS (VI-GPS) with Application to STS Operations*. The research program was funded by the Norwegian Research Council and industrial partners.
Norwegian University of Science and Technology.

2005 ~ 2006

Host of Dr. Etsuro Shimizu of Tokyo University of Marine Science and Technology, Japan.
Research topic: *Robust Tracking Controller and Controller Design for a Fleet of Ships*.
Norwegian University of Science and Technology.

LIST OF SCIENTIFIC/TECHNICAL PUBLICATIONS

Pedersen, Egil; *Principles of Applied Nautical Science*. The textbook covers the content of lectures in the bachelor, master and PhD courses listed. International Publisher (TBD).

Sawamura, Junji, Pedersen, Egil; *Experimental Investigation of Ice Motion and Ice Force on a Ship in Small Ice Floes and Regular Waves*, The American Society of Mechanical Engineers (ASME), OMAE2026, Tokyo, Japan; 06 – 12 June 2026. (Abstract accepted.)

Sawamura, Junji, Pedersen, Egil; *Simulation of the Icebreaking Pattern for Sea Ice Management*, Monbetsu Symposium, Hokkaido, Japan, January 2022.

Okkerstrøm, Lene, Gudmestad, Ove Tobias, Pedersen, Egil; *Simulation of peak tension loads in Subsea power cables during installation*. IOP Conference Series: Materials Science and Engineering, Vol. 1202, 2021, ISSN 1757-8981.

Grindheim, Jan Vidar; Revhaug, Inge; Pedersen, Egil; Solheim, Peder. *Position prediction of marine seismic streamer cables using various Kalman filter methods*. Journal of Offshore Mechanics and Arctic Engineering 2019; Volume 141 (5). ISSN 0892-7219. pp. 1 - 8.

Sawamura, J. and Pedersen, E. *Preliminary Calculation of Ship Maneuvering Control in Pack Ice*. The 33rd International Symposium on Okhotsk Sea and Polar Oceans, Monbetsu, Japan; 18 - 21 February 2018.

Sawamura, J. and Pedersen, E. *2D Simulation of the Icebreaking Pattern for Sea Ice Management*. The 28th International Ocean and Polar Engineering Conference (ISOPE 2018), Sapporo, 10 – 15 June.

Grindheim, J.V., Revhaug, I., Welker, K., Solheim, P. and Pedersen, E. *Validation of Seismic Streamer Simulator and Sea Current Estimator Using Full Scale Data*. The ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018), Madrid, Spania, 17 – 22 June 2018.

Grindheim, J.V., Revhaug, I., Pedersen, E. and Solheim, P. *Comparison of Two Models for Prediction of Seismic Streamer State using the Ensemble Kalman Filter*. Journal of Offshore Mechanics and Arctic Engineering, 140, 2018.

Grindheim, J.V., Revhaug, I., Welker, K., Solheim, P. and Pedersen, E. *Algorithm for Auto-piloting Efficient Seismic Line-change Turning Maneuvers*. The ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018), Madrid, Spania, 17 – 22 June 2018.

Grindheim, J.V., Revhaug, I., Solheim, P. and Pedersen, E. *Validation of Cable Simulator with Towed Vehicle*. The 27o Congresso Internacional de Transporte Auaviario, Construcao Naval e Offshore (SOBENA 2018), Rio de Janeiro, Brazil, 23 – 25 October 2018.

Grindheim, J.V., Revhaug, I., Solheim, P. and Pedersen, E. *A Simplified Solution to the Negative Tension Problem of a Three-Dimensional Towed Underwater Cable Model*. The 27o Congresso Internacional de Transporte Auaviario, Construcao Naval e Offshore (SOBENA 2018), Rio de Janeiro, Brazil, 23 – 25 October 2018.

Grindheim, J.V., Revhaug, I., Solheim, P. and Pedersen, E. *Finite Element Method Model for Towed Seismic Streamer Dynamics*. The 27o Congresso Internacional de Transporte Auaviario, Construcao Naval e Offshore (SOBENA 2018), Rio de Janeiro, Brazil, 23 – 25 October 2018.

Grindheim, J.V., Revhaug, I. and Pedersen, E. *Utilizing the EnKF (Ensemble Kalman Filter) and EnKS (Ensemble Kalman Smoother) for Combined State and Parameter Estimation of a 3D Towed Underwater Cable Model*. Journal of Offshore Mechanics and Arctic Engineering, 139, 2017. pp. 1-8.

Grindheim, J.V., Revhaug, I., Pedersen, E. and Solheim, P. Modeling, *Prediction and Control of Towed Marine Seismic Streamers*. Kart og Plan 77, 2017, pp. 1-16.

Grindheim, J.V., Revhaug, I., Sales, J.S.J, Mobasheramini, M., Pedersen, E. and Solheim, P., 2017d, *Performance Comparison of Rudder Profiles for Lateral Steering of Seismic Streamers*. Proceedings of the XXXVIII Iberian Latin-American Congress on Computational Methods in Engineering (CILAMCE 2017), 5 – 8 November, Florianópolis, SC, Brazil, CILAMCE2017-0510.

Sawamura, J. and Pedersen, E. *On a Numerical Model for 2D Numerical Simulation of Ship-Ice Interaction for an Icebreaker Advancing in Ice-covered Water*. The 30th International Symposium on Okhotsk Sea and Sea Ice; 2015-02-16 - 2015-02-18.

Yoo, Y., Pedersen, E., Kouguchi, N., and Song, C-U. *Experimental Results of Ship-to-Ship Lightering Operations Applied Velocity Information GPS*. Journal of Navigation and Port Research 2014; Volume 38.(6) pp. 577-583.

Husjord, D. and Pedersen, E. *Performance Testing of a Decision-support System for STS Operations in a Ship maneuvering Simulator*. To appear in Proc. of the International Navigation Simulator Lecturers' Conference 2012 (INSLC 17), Rostock-Warnemunde, Germany, 03 – 07 September 2012.

Kirimoto, K., Shimizu, E. and Pedersen, E. *Safety Assessment of Ship-to-Ship Lightering Operation based on Collision Danger Zone due to Interaction Effects (2nd Report: Evaluation of Difficulty of Maneuver)*. In Proc. of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012), pp. 872-879, Rhodes, Greece, 17 – 22 June 2012.

Skejic, R., Kirimoto, K., Berg, T. E. and Pedersen, E. *Maneuvering Performance of Ships in Calm Water with Finite Variable Water Depth*. In Proc. of the 2012 International Conference on Marine Simulation and Ship Maneuverability (MARSIM 2012), Singapore, 23 – 27 April 2012.

Kirimoto, K., Husjord, D. and Pedersen, E. *Safety Assessment of Ship-to-Ship Lightering Operation based on Collision Danger Zone due to Interaction Effects*. In Proc. of the 21st International Offshore and Polar Engineering Conference (ISOPE 2011), pp. 913-920, Maui, USA, 19 – 24 June 2011.

Skejic, R., Kirimoto, K., Berg, T. E. and Pedersen, E. *Towards a Navigational Safety Standard for Ships Performing Underway Lightering Maneuvers in Close Proximity*. In Proc. of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011), pp. 803-813, Rotterdam, The Netherlands, 19 – 24 June 2011.

Husjord, D. and Pedersen, E. *Integration and Testing of STS Decision-support System in a Ship Maneuvering Simulator*. In Proc. of the 2nd International Conference on Ship Manoeuvring in Shallow and Confined Water: Ship-to-Ship Interaction, Trondheim, Norway, 18 – 20 May 2011.

Kirimoto, K. and Pedersen, E. *Decision-support System for STS Training on Ship Handling Simulators by Means of Visualization of Collision Danger due to Hydrodynamic Interaction*. In Proc. of the 2nd International Conference on Ship Manoeuvring in Shallow and Confined Water: Ship-to-Ship Interaction, Trondheim, Norway, 18 – 20 May 2011.

Shimizu, E. and Pedersen, E. *Measurement of Relative Distance and Speed using Stereo-vision*. In Proc. of the 2nd International Conference on Ship Manoeuvring in Shallow and Confined Water: Ship-to-Ship Interaction, Trondheim, Norway, 18 – 20 May 2011.

Arai, Y., Pedersen, E., Kouguchi, N. and Yamada, K. *The Availability of VI-GPS for Ship Operation*. In Proc. of Asia Navigation Conference (ANC 2010), Incheon, Korea, 04 – 06 November 2010.

Husjord, D., Pedersen, E. and Øritsland, T. A. *Integration of Decision-support System in STS Lightering Operations*. In Proc. of Techno-Ocean 2010, Kobe, Japan, 14 – 16 October 2010.

Husjord, D. and Pedersen, E. *On Guidance and Decision-Support Displays in Ship-to-Ship Lightering Operations.* eNewsletter of IEEE Systems, Man and Cybernetics Society of June 2010.

Shimizu, E., Pedersen, E. and Takano, Y. *Field Observation of Actual Lightering Operations*. Proc. of the OCEANS'10 IEEE, Sydney, Australia, 24 – 27 May 2010.

Pedersen, E., Husjord, D., Yoo, Y. and Shimizu, E. *Field Testing of GPS Applications in Ship-to-Ship Lightering Operations*. Proc. of the ION International Technical Meeting 2010, San Diego, California, USA, 25 – 27 January 2010.

Yoo, Y., Pedersen, E., Kouguchi, N., and Arai, Y. *Experimental Results of Relative Speeds and Distances in STS Lightering by Application of GPS-based Systems*. Proc. of the ION GNSS 2009, Savannah, Georgia, 22 – 25 September 2009.

Yoo, Y., Husjord, D., Shimizu, E., and Pedersen, E. *Field Observation and STS Lightering with Comparative Analysis Results of Relative Speed*. Proc. of the International Conference on Marine Simulation and Ship Manoeuvring (MARSIM 2009), Panama City, Panama, 17 – 19 August 2009.

Husjord, D., and Pedersen, E. *Operational Aspects on Decision-making in STS Lightering*. Proc. of the 19th International Offshore and Polar Engineering Conference and Exhibition (ISOPE 2009), Osaka, Japan, 21 – 26 June 2009. ISBN 978-1-880653-53-1; ISSN 1098-6189.

Shimizu, E., and Pedersen, E. *A Controller Design for Lightering Operations Using Relative Distance Sensor*. Proc. of the 19th International Offshore and Polar Engineering Conference and Exhibition (ISOPE 2009), Osaka, Japan, 21 – 26 June 2009. ISBN 978-1-880653-53-1; ISSN 1098-6189.

Yoo, Y., Pedersen, E., Tatsumi, K., Kouguchi, N., and Arai, Y. *Application of 3-D Velocity Measurement of Vessel by VI-GPS for STS Lightering*. Proc. of the 8th International Symposium on Marine Navigation and Safety at Sea Transportation (TransNav 2009), Gdynia, Poland, 17 – 19 June 2009. ISBN 978-0-415-80479-0.

Pedersen, E., Shimizu, E., and Berg, T. E. *Navigational Challenges for Ships Operating in Close Proximity*. Proc. of the International Conference of Safety and Operations in Canals and Waterways (SOCW 2008), Glasgow, Scotland, UK, 15 – 16 September 2008. ISBN 978-0-947649-29-6.

Pedersen, E., Shimizu, E., and Berg, T. E. *On the Development of Guidance System Design for Ships Operating in Close Proximity*. Proc. of the Position Location and Navigation Symposium (IEEE-ION PLANS 2008), Monterey, California, USA, 5 – 8 May 2008. ISBN 1-4244-1537-3.

Pedersen, E., Shimizu, E., Haugen, T. and Berg, T. E. *Application of a Short-range Distance Measurement System in Ship-to-Ship Operations*. Proc. of the ION National Technical Meeting 2008, San Diego, California, USA, 28 – 30 January 2008.

Hansen, S. V. and Pedersen, E. *On an Advanced Shipboard Information and Decision-making System for Safe and Efficient Passage Planning*. Proc. of the 7th International Navigational Symposium on Marine Navigation and Safety of Sea Transportation (TransNav 2007), Gdynia, 20 – 22 June 2007. ISBN 978-83-7421-018-8.

Hansen, S. V. and Pedersen, E. *On Safe and Efficient Under-keel Clearance Management in Shallow Waters and Channels*. MERCATOR, Weilbach, March Edition 2007. ISBN-10: 87-7790-166-5, ISBN-13: 978-87-7790-166-9.

Liu, Q., Pedersen, E., Okazaki, T., Fukuto, J. and Tanaka, K. *Direct Perception Interface for Ship-Ship Collision Avoidance*. Proc. of International Conference on Systems, Man and Cybernetics (IEEE SMC 2006), Taipei, Taiwan, 8 – 11 October 2006. ISBN: 1-4244-0100-3.

Pedersen, E. and Shimizu, E. *Prediction and Evaluation of Collision Risk to Multiple Targets on Electronic Nautical Chart Systems*. Proc. of the International Symposium Information on Ships (ISIS 2006), Hamburg, 21 – 22 September 2006.

Shimizu, E. and Pedersen, E. *Controller Design Strategy for a Fleet of Ships*. Proc. of the 7th Conference on Manoeuvring and Control of Marine Craft (MCMC 2006), Lisbon, Portugal, 20 – 22 September 2006.

Liu, Q., Okazaki, T., Pedersen, E. and Fukuto, J. *Effects of a Navigation Support Display on Human Performance*. J. Japan Institute of Navigation. 115, pp. 17 – 24, September, 2006. ISSN 0388-7405.

Shimizu, E. and Pedersen, E. *Collision Risk Assessment for Underwater Vehicles*. The 74th Annual Conference on Marine Engineering, Tokyo, Japan, 15 – 16 May 2006. (In Japanese.)

Shimizu, E. and Pedersen, E. *Design of Automatic Controller for Fleet of Ships*. The 74th Annual Conference on Marine Engineering, Tokyo, Japan, 15 – 16 May 2006. (In Japanese.)

Pedersen, E. and Berg, T. E. *International Education Programme and Research Activities in Nautical Science at the Norwegian University of Science and Technology*. Proc. of the Maritime Education (MARED-05), Bergen, Norway, 13 – 14 April 2005.

Liu, Q. and Pedersen, E. *A Cognitive Approach to Visualizing Collision-related Information for Safe Marine Navigation*. Proc. of the 5th Academic Meeting of Young Chinese Researchers – Chinese Academy of Science and Technology, Beijing, China, November 2004. (In Chinese.)

Pedersen, E. and Liu, Q. *Aspects on an Information Display System for Efficient Collision Risk Assessment in Congested Waterways*. Proc. of the 3rd International Conference on Collision and Grounding of Ships (ICCGS 2004), Tokyo, Japan, 25 – 27 October 2004.

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