

Curriculum vitae with track record (for researchers)

Role in the project Project manager ☐ Project participant ☒

Personal information

First name, Surname:	Sigmund Clausen		
Date of birth:	210868	Sex:	M
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):			
URL for personal website:	For research overview, see ResearchGate		

Education

Year	University of Oslo (UiO), 1994-1997
1998	Ph.D. (dissertation: February 1998)
1993	Master/Sivilingeniør in Physics (NTH)

Positions - current and previous

(Academic sector/research institutes/industrial sector/public sector/other)

Year	Job title – Employer - Country
2008-	Chief Scientist, NORCE (Norwegian Research Centre) , Norway
2001-2017	Advisor, signal and image processing, Idex, Norway (part time position)
1998-2008	Senior Scientist, SINTEF, Norway

Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project owner - Project - Role - Funder
2024-2025	Project leader: Measuring tidal currents using a camera, funded by Møre og Romsdal fylkeskommune
2019-2024	Development of algorithms for monitoring wave fields by stereo vision, funded by NORCE, applied in projects for Vegvesenet/Kystverket
2020	Project leader: Camera-based application for on-line counting of pellets in fish cages, IMENCO AS

2020-2022	Project leader IPN project 12 MNOK: Autonom tilstandsmaling i merd (drone med 3D kamera)
2018-2022	Project leader Martera, Biomass and Fish Size Estimation System, € 1,000,000, 5 partners BIOSYS JPI Oceans

Track record

- The total *number* of publications during the career. 33
 - See [ResearchGate](#) for a complete overview of the publications
- A list of up to *ten* publications in major national or international peer-reviewed journals, peer-reviewed conference proceedings, peer reviewed book chapters and/or monographs
 1. Risholm, P., Mohammed, A., Kirkhus, T., Thielemann, J. T., **Clausen, S.**, et al. (January 2022). *Automatic length estimation of free-swimming fish using an underwater 3D range-gated camera*. **Aquacultural Engineering**.
 2. Oosterkamp, A., **Clausen, S.**, Lothe, T. (August 2021). *4D Mapping of Sea State by Stereo Photographic Imaging*. **Proc. ISOPE 2019**.
 3. Clausen, S., Helgaker, J. F., Hope, S. M. (June 2016). *Improving Pipeline Flow Modeling by Multivariate Analysis*. **Proc. 26th Int. Ocean and Polar Engineering Conf. (ISOPE 2016)**.
 4. Clausen, S., Losnegård, S. E., Langelandsvik, L. I., Postvoll, W. (May 2015). *Steady-State Temperature Predictions of Commercial Pipeline Simulators*. **PSIG Annual Meeting, New Orleans**.
 5. Munkejord, S. T., Bernstone, C., **Clausen, S.**, Møltnvik, M. J. (December 2013). *Combining Thermodynamic and Fluid Flow Modelling for CO₂ Flow Assurance*. **Energy Procedia**.
 6. **Clausen, S.**, Oosterkamp, A., Strøm, K. L. (December 2012). *Depressurization of a 50 km Long 24-inch CO₂ Pipeline*. **Energy Procedia**.
 7. **Clausen, S.**, Munkejord, S. T. (December 2012). *Depressurization of CO₂ – a Numerical Benchmark Study*. **Energy Procedia**.
 8. **Clausen, S.** (January 2008). *A Single-Line AC Capacitive Fingerprint Swipe Sensor*. In **Book Chapter**.
 9. **Clausen, S.**, Greiner, K., Andersen, O., Kavli, T. (June 2007). *Automatic Segmentation of Overlapping Fish Using Shape Priors*. In **Image Analysis, SCIA 2007, LNCS**.
 10. Yang, L., Kavli, T., Carlin, M., **Clausen, S.**, de Groot, P. (January 2002). *An Evaluation of Confidence Bound Estimation Methods for Neural Networks*. In **Advances in Computational Intelligence and Learning**.
- Given plenary talks at more than 25 different conferences and seminars.

- Awards: SINTEF 2003 award for Outstanding Research: <https://www.sintef.no/globalassets/upload/konsern/arsrapporter/sintefs-annual-report-2003.pdf>
- Patents:
 - Live finger detection by four-point measurements of complex impedance, 2010 (filed 2003)
 - Two granted patents related to fingerprint enrollment and verification (filed in 2015)