ICES CIEM
International Council for the Exploration of the Sea
Conseil International pour l'Exploration de la Mer

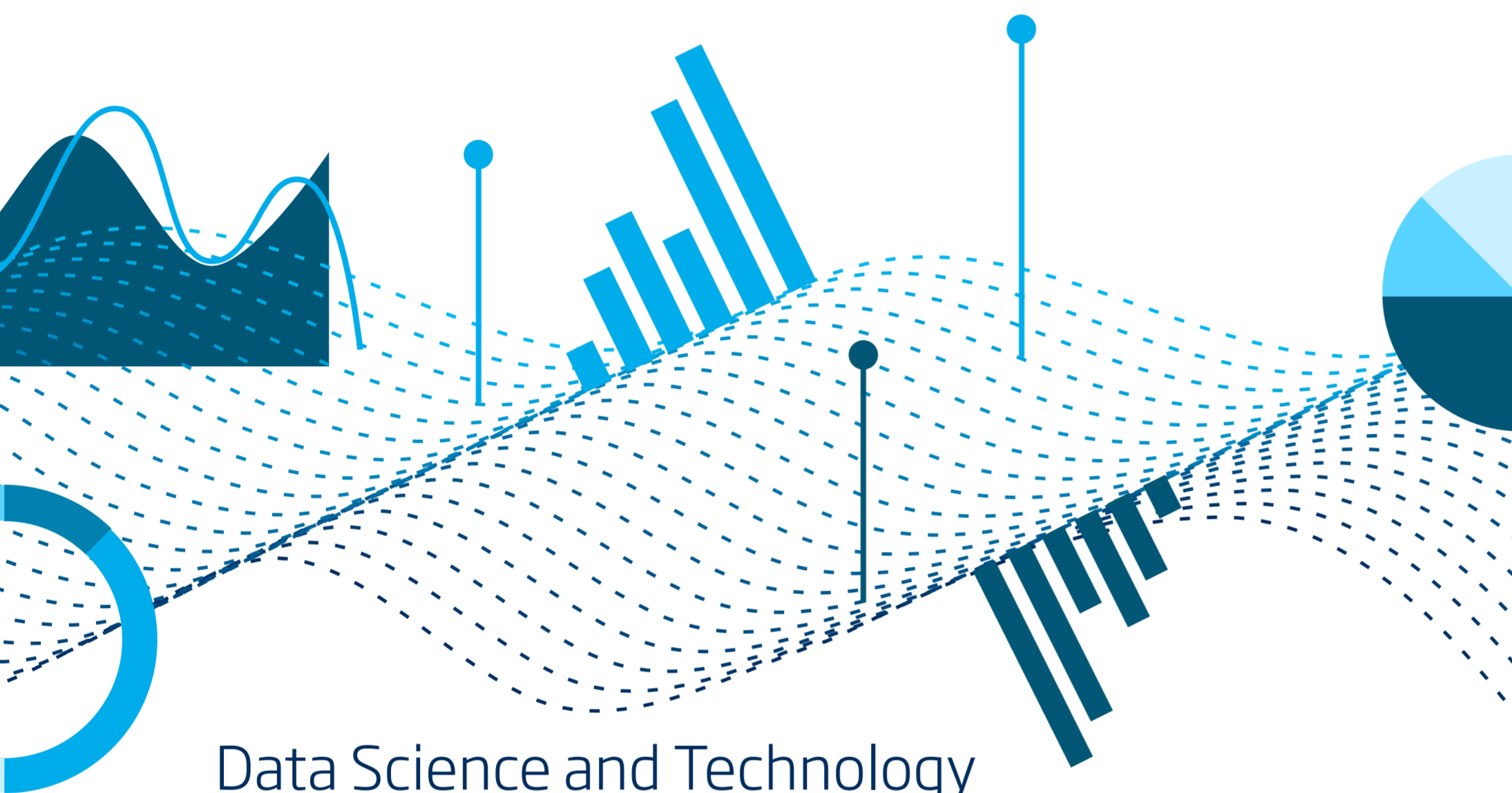# WGMLEARN

Working Group on Machine Learning in Marine Science

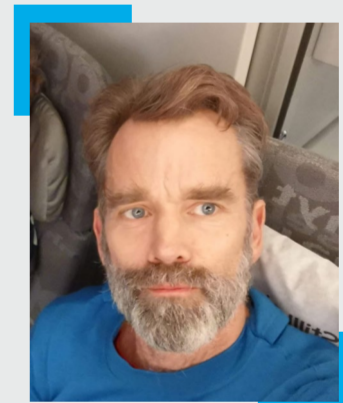Data Science and Technology Steering Group (DSTSG)

OUR OBJECTIVE

- Review the current applications of machine learning (ML) in marine sciences
- Identify challenges, trends, and needs including social and legal aspects
- Promote the use of ML in marine science
- Index and develop ML resources useful for marine sciences
- Promote training and networking

OUR EXPERTISE

- Image analysis, classification, and deep learning
- Automatic analysis and classification of acoustic data
- Decision support systems based on Bayesian networks
- Genomics for species identification and traceability
- Operational forecasting of species recruitment and distribution
- Mapping of habitats, fleets and human activities and pressures
- Advice to industry, authorities and decision makers

RESEARCH FOCUS

To help accelerate the processing of the massive volumes of data collected in marine science and provide better decision support tools, we aim to:

- Organize and develop shared resources such as a shared bibliography database, training materials, and code examples.
- Increase knowledge and build competence through newsletters, seminars, training courses, and networking with other ICES expert groups.
- Identify social and legal needs for trustworthiness development in AI for fisheries and marine sciences and propose development actions.

FORMER CHAIRS

Ketil Malde

Jean-Olivier Irisson

OUR CHAIRS

Laura Uusitalo

Jose A. Fernandes-Salvador

Scan the QR code to learn more about our work