



Examples of AI Technology R&D at the University of Oslo

Stephan Oepen, Circle U Academic Chair, Department of Informatics

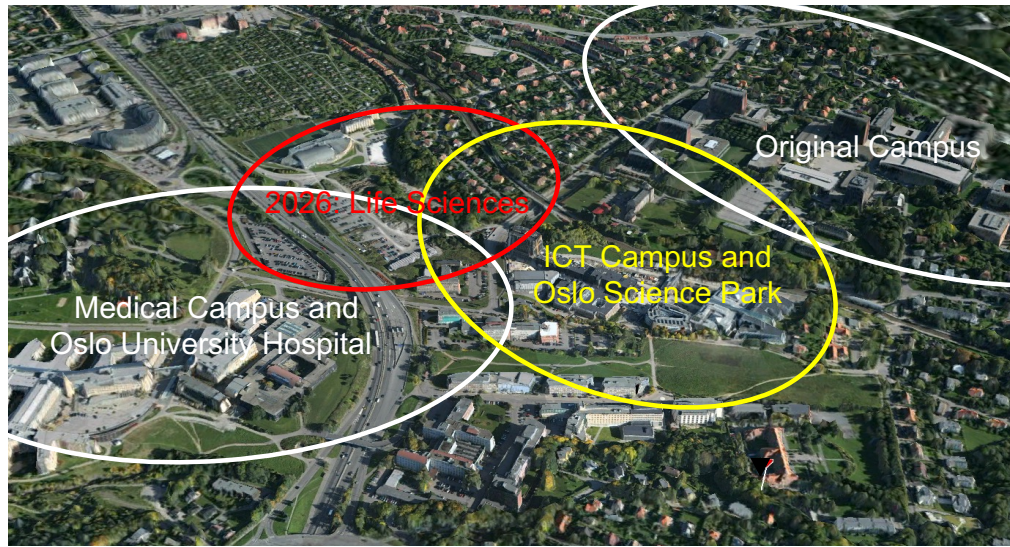
AI in Circle U: Connecting Minds, Shaping the Future – May 27, 2025



The University of Oslo: UiO



(27,000 STUDENTS; 219 STUDY PROGRAMMES; 7,200 STAFF; 107 ERC GRANTS)



Humanities

Law

Mathematics and
Natural Sciences

Medicine

Dentistry

Social Sciences

Theology

Educational Sciences

Humanities

Dag Haug: Digital Humanities

Law

Malcom Langford: Law Studies and Governance

Mathematics and
Natural Sciences

Stephan Oepen: Informatics and Data Science

Medicine

Natalie Halvorsen: Diagnosis and Treatment

Dentistry

Social Sciences

Theology

Educational Sciences

Anders Mørch: Learning about and with AI

Bachelor Students	ca. 1500
Master Student	ca. 900
Doktoral Candidates	ca. 220

Informatics: Some Key Statistics (April 2025)



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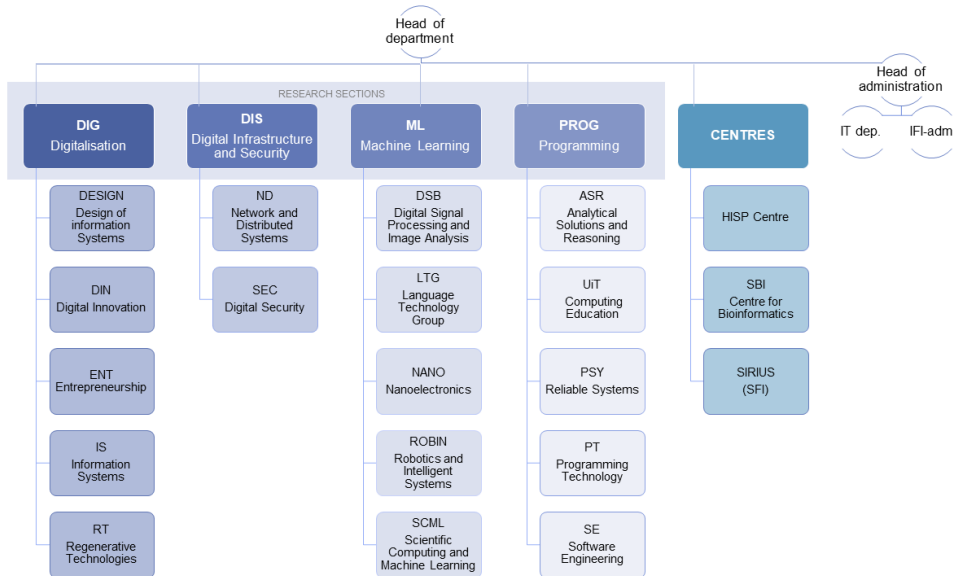
Regular Salaried Staff	ca. 400
Of Which Permanent Faculty	some 90
Of Which Technical–Administrative	some 80
Of Which (Post-)Doctoral Fellows	some 140
Of Which Part-Time Adjunct Positions	some 80

Informatics: Some Key Statistics (April 2025)

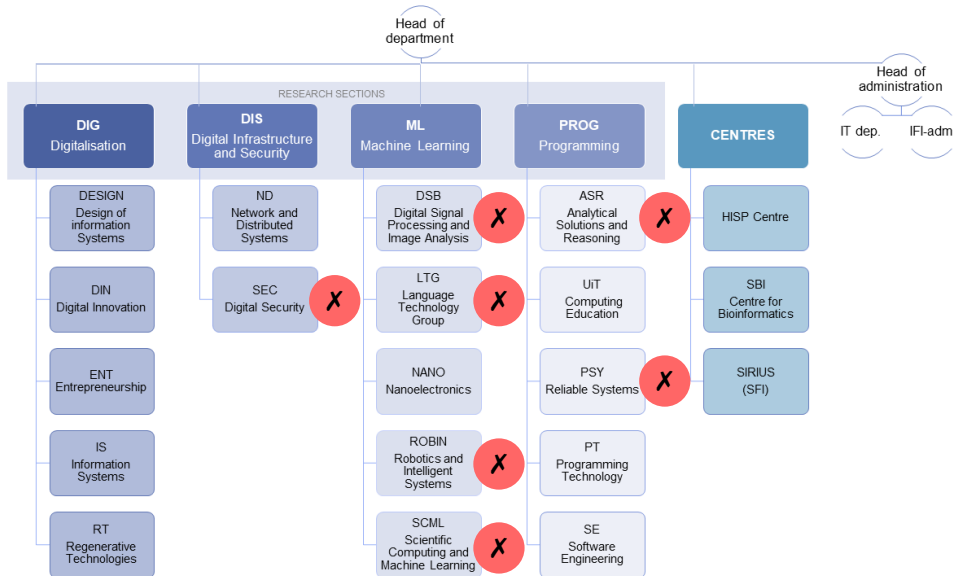


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New Faculty Appointments since 2021	29

A Broad Perspective on Informatics



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2011: Ole Johan Dahl Building



A Proud History: Ole Johan Dahl & Kristen Nygaard



A Proud History: Ole Johan Dahl & Kristen Nygaard



INVENTORS OF OBJECT-ORIENTED PROGRAMMING (AND PARTICIPATORY DESIGN)
A. M. TURING AWARDS (2001) AND IEEE JOHN VON NEUMANN MEDALS (2002)

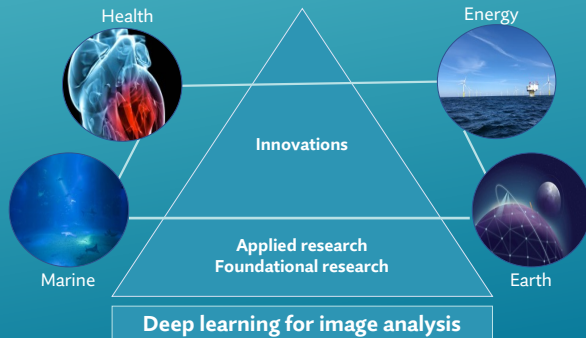
For Example: The *Visual Intelligence* SFI



For Example: *Visual Intelligence* (2 of 2)



Concept



Integreat



UNIVERSITY
OF OSLO



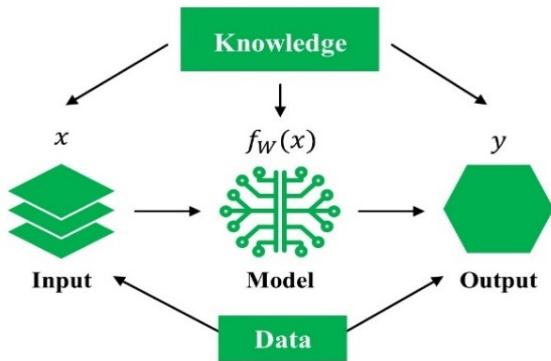
UiT The Arctic
University of Norway



Norsk
Regnesentral
NORWEGIAN COMPUTING CENTER

HIGH-IMPACT REAL-WORLD PROBLEMS

Partnership programme: academic, industrial, societal partners.



Knowledge about structures, processes and dynamics of the modelled system and about the data generating mechanisms.

For Example: Very Large Language Models



LANGUAGE TECHNOLOGY GROUP (LTG): FIVE FACULTY; SOME TWENTY FELLOWS

NATIONAL COMPETENCE HUB, JOINTLY WITH E.G. NATIONAL LIBRARY

FOCUS ON 'SMALLER' LANGUAGES; PROVIDER OF OPEN DATA, MODELS, BENCHMARKS

For Example: Very Large Language Models



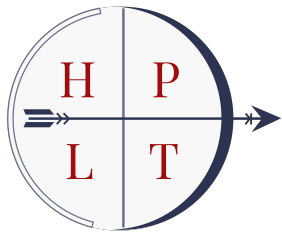
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PRE-TRAINED 7–12B FOUNDATION MODELS FOR NORWEGIAN AND SÁMI LANGUAGES

COORDINATES NORDIC LANGUAGE PROCESSING LABORATORY; ACTIVE IN HEU & DEP



<https://www.mn.uio.no/ifi/english/research/groups/ltg/>

A series of foundation models for transparent AI in Europe

TRULY OPEN

including data, documentation, training and testing code, and evaluation metrics; including community involvement

COMPLIANT

under EU regulations, OpenEuroLLM will provide a series of transparent and performant LLMs

DIVERSE

for European languages and other socially and economically interesting ones, preserving linguistic and cultural diversity

<https://openeurolm.eu/>





LUMI: The 3rd Fastest Supercomputer World-Wide in May 2022 (25,000 GPUs)

- ▶ **Storage** and **compute** allocations to Norwegian researchers (with EU funding);
- ▶ **data partnerships** with **Internet Archive**, Common Drawl, OpenWebSearch.eu, etc.

A banner for the DSTrain program. It has a light blue background with several overlapping wavy lines in dark blue, red, and light orange. The text "DSTrain" is centered in a large, bold, black font. Below it, in a smaller black font, is "MSCA Postdoctoral Fellowships in Computational and Natural Sciences".

DSTrain

MSCA Postdoctoral Fellowships in
Computational and Natural Sciences

<https://www.uio.no/dscience/english/dstrain/>

Stephan Oepen

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