CLUSTER 3
HORIZON EUROPE

NTNU DIGITAL IN EUROPE: LIST OF CALLS WITH THEIR RESPECTIVE INTERESTED NTNU RESEARCHERS

PROPOSED BY: NTNU BRUSSELS OFFICE, NTNU DIGITAL AND IE FACULTY
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Dear Reader,

Are you looking for the best researchers with whom to collaborate on Horizon Europe cluster 3 bids? Then, read on.

We have matched our researchers to the upcoming Horizon Europe calls, based on both their expertise and the industry relations they can bring to the bid.

As the largest university in Norway - NTNU: the Norwegian University of Science and Technology - we can be a powerful partner and collaborator. With 240 signed projects and € 133 million in funding from Horizon 2020, we have currently achieved the University’ set targets for it.

And we are setting even more ambitious targets, for Horizon Europe, making it one of the centerpieces of our international strategy.

This document is one of six prospectuses that outline areas of expertise for - and of interest to - NTNU researchers, for each of the upcoming six clusters of Horizon Europe.

They are living documents. Even if you do not find an exact match, our research community would be thrilled to open a collaborative dialogue with you. Just ping a message to one of our institutional contact points, like NTNU’s Brussels Office.

Together, we can create true “knowledge for a better world”.

Tor Grande
Pro-rector of Research
Knowledge provides people with opportunities and influence, as well as a foundation for making wise choices. Knowledge inspires and challenges. It changes attitudes, mindsets, and how we perceive the world around us. Informed debate strengthens our democracy. NTNU’s activities should benefit society as a whole and society can trust that our findings comply with best scientific practice.

Knowledge and technology development create opportunities for increasing sustainable value creation and finding answers to major challenges. Through the United Nations, the world has agreed on 17 Sustainable Development Goals. NTNU will contribute actively towards achieving the Sustainable Development Goals.

**NTNU’s strength is our competence in science and technology combined with academic breadth and interdisciplinarity.**
NTNU is a university with an international focus, with headquarters in Trondheim and campuses in Ålesund and Gjøvik. NTNU has a main profile in science and technology, a variety of programmes of professional study, and great academic breadth, including medicine, architecture, and entrepreneurship.

**FACTS**

**NTNU Energy**  **NTNU Health**  **NTNU Oceans**  **NTNU Sustainability**

NOK 9,4 billion  41 971 students  7401 person-years  406 doctoral degrees

NTNU offers 371 programmes of study (2019), as well as continuing and further education. The university has the main responsibility for higher education in technology in Norway, and largest in engineering, teacher education and architecture. NTNU aims to be a national hub in programmes of professional study.

NTNU is the institution that is awarded most funding from the Research Council in Norway, as well as being granted with 240 signed projects and a total funding of €133 million from Horizon 2020 (and 11 more projects in the process of being signed). Moreover, NTNU is a host or partner for 46 major research centres (SFF, SFI, and FME), and has internal initiatives to develop and recruit top researchers.

Beyond its science and technology profile, NTNU covers a broad range of social science and humanities (SSH) disciplines including sociology, political science, education, psychology, economics, history, cultural sciences and the arts. Researchers from SSH disciplines have been successfully addressed societal issues and contributed to social innovation through participation in more than 30 H2020 projects, presenting NTNU as promising and strong partner in future European collaborations in all Global Challenge clusters under Horizon Europe.

From 2014-2023, NTNU has identified several strategic research areas and enabling technologies:
The NTNU Brussels Office represents NTNU in Brussels, provides strategic advice on European policies, promotes NTNU positions, manages or participates in strategic networks and initiatives in Brussels, and provides professional services to the NTNU community based on its Brussels presence.

The office represents both «the door to NTNU» for organizations that want to collaborate and create synergies with NTNU, and «the door to Europe» for colleague active in or willing to enter the European Arena.

NTNU opened the doors to its Brussels Office in 2015 and today the staff consists of five people, Director Massimo Busuoli, one intern and two trainees, as well as an EU advisor which is stationed in Brussels for the Faculty of Information Technology and Electrical Engineering (IE).

The office activities and services include the following:
- Promotion and representation of NTNU in Brussels
- Positioning of NTNU in relevant Brussels-based initiatives and bodies
- Contribution to improve NTNU’s EU project portfolio
- Provide internship opportunities for NTNU employees and students
- Provision of logistic support and services in Brussels
NTNU Digital

NTNU Digital is a strategic initiative created to increase the understanding, use and development of digital technology to solve complex issues across research disciplines. The focus areas of NTNU Digital are Artificial Intelligence, Autonomous Systems, Cyber Security and Computational Technology. The core research areas can be shared across diverse applications, and the ambition is to achieve a beneficial cross-fertilization by bringing together researchers from different application areas but with commonalities in method and theory.

NTNU Digital provides the following resources across all the faculties at NTNU:

- Long-term positioning and participation in European Networks and Alliances
- Coordination, guidance and review of large, strategically important applications submitted for the European Framework Programmes and the national funding schemes
- Identification of new collaboration opportunities and overview of ongoing, relevant projects
- Internal platform to meet, obtain and share info across NTNU related to enabling digital technologies
- Promotion of NTNU research excellence and capacities within digital technologies in front of local, national, and international research and innovation arenas
NTNU Digital: Success stories

These are only several examples of NTNU Digital success stories.

Conceptual architecture and coordination of the MSCA COFUND PERSEUS proposal which aims to educate top-level researchers contributing to solve societal challenges within the areas of energy, healthcare, manufacturing, mobility, and ocean-based technology, through the use of digital technologies.

Strategic guidance and review of long-term strategic and prestigious research and innovation proposals submitted for the funding to the Research Council of Norway. These projects have been awarded: SFI Autoship - Autonomous ships for safe and sustainable operations, NorwAI - Norwegian Research Centre for AI Innovation, NORCICS - Norwegian Centre for Cybersecurity in Critical Sectors and CGF - Centre for Geophysical Forecasting.
The **Faculty of Information Technology and Electrical Engineering (IE)** has more than 65 percent of the Norwegian university education and research within our disciplines. We offer bachelor, master, and PhD degrees in our areas of expertise. We have the largest number of students at Master and PhD levels in Norway within our disciplines.

The research at the Faculty of Information Technology and Electrical Engineering addresses challenges ranging from basic research in mathematics, computer science, cybernetics, nano and microelectronics, to global research demands within energy, transport, health and welfare, robust and secure ICT services, cyber security and marine and arctic operations.

The different research fields are organized along the lines of 11 strategic research areas:

- Artificial Intelligence
- Autonomous Systems
- Cyber Security
- Small Satellite Lab
- Mathematics in Technology
- Data Science
- Internet of Things
- Energy Efficient Computing Systems
- Digital Twins
- Digital Enterprise
- Digital Electric Energy
Horizon 2020

IE Faculty participation

65
RESEARCH PROJECTS

Ranging from excellence projects within basic research (ERC), doctoral and postdoctoral training (MSCA) to collaborative R&I projects with higher TRL levels together with a number of European partners within research, public sector and industry.
Faculty of Information Technology and Electrical Engineering

We have great influence on and responsibility for new information-based industrial developments and developments within other areas of society which apply information and communication technology. Both our research and education are at a high international level.

Our PhD programs are popular for national and international students, either at a program within our faculty:

- Computer Science
- Electric Power Engineering
- Electronics and Telecommunication
- Engineering Cybernetics
- Information Security and Communication Technology
- Mathematical Sciences

Or through a cross-disciplinary program such as Medical Technology

We are also partners in two National research schools:

- Nanotechnology for Microsystems
- Computer and Information Security
COLLABORATING WITH NTNU

As the largest Norwegian university with high multidisciplinary nature, NTNU offers a wide range of expertise and competences. Specific mapping of available researchers willing to collaborate on Horizon Europe have been performed for all clusters, producing documents similar to this brochure. All the brochures are available at through the NTNU Brussels Office.

All the brochures are available here.

Should you be interested to explore collaboration opportunities in areas not present in any of these brochures, you can get in touch with the institutional entry points of the university

ENTRY POINTS

NTNU Brussels Office

NTNU Digital

Local contact point digital technologies Horizon Europe: Vilija Balionyte-Merle - NTNU Digital coordinator

Faculty EU advisors - link
- AD - Fakultet for arkitektur og design – Tone Woie Alstadheim and Srutarshi Pradhan
- HF - Det humanistiske fakultet – Chamila Thushari Attanapola and Thomas Aarnseth
- IE - Fakultet for informasjonsteknologi og elektroteknikk – Nathalie Søyseth
- IV - Fakultet for ingeniørvitenskap – Ingunn Syrstad Bøgeberg and Miriam K. Khider
- MH - Fakultet for medisin og helsevitenskap – Emma Louise Walton and Morgane Colleau
- NV - Fakultet for naturvitenskap – Thais Mothe-Diniz and Eugen Gravningen Sørmo
- SU - Fakultet for samfunns- og utdanningsvitenskap – Rård Li and Jens Rohloff
- ØK - Faculty of Economics and Management – Gunnar Bendheim
- VM - NTNU University Museum – Solveig Bakken
- NTNU in Gjøvik – Anne Hilde Ruen Nymoen
- NTNU in Ålesund – Kirsti Brekke
Destination 1: Better protect the EU and its citizens against Crime and Terrorism

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 1.

The following pages are sorted by the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 1 - CALLS

Click on the call to be directed to its page

HORIZON-CL3-2022-FCT-01-01 Improved crime scene investigations related to transfer, persistence and background abundance

HORIZON-CL3-2022-FCT-01-02 Better understanding the influence of organisational cultures and human interactions in the forensic context as well as a common lexicon

HORIZON-CL3-2022-FCT-01-03 Enhanced fight against the abuse of online gaming culture by extremists

HORIZON-CL3-2022-FCT-01-04 Public spaces are protected while respecting privacy and avoiding mass surveillance
Kiran Raja
DEPARTMENT OF COMPUTER SCIENCE
DEPARTMENT OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
Kiran.raja@ntnu.no
+47 61135374

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMO, EU-H2020-IMARS

Relevant Industry Contacts
SINTEF

Raghavendra Ramachandra
DEPARTMENT OF LANGUAGE AND LITERATURE
DEPARTMENT OF INFORMATION SECURITY AND COMMUNICATION TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
raghavendra.ramahcandra@ntnu.no
+47 47296074

Expertise
Biometrics, forensics, border management, privacy, Imaging, Advance machine learning, multi-spectral sensing and algorithms.

Relevant projects
FIDELITY (EU FP-7), ORIGINS(EU FP-7), INGRESS(EU FP-7), SWAN(RCN), iMARS (H2020), BATL (IARPA, USA)

Relevant Industry Contacts
MOBAI AS, OFFPAD, IDEMIEA, GENKEY
Muhammad Sajjad

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
muhammad.sajjad@ntnu.no
+47 61135374

Relevant Industry Contacts
NIBIO

Expertise

Relevant projects
1. ALAMEDA Project (Continue)
2. Smart Neck Collar for Livestock
3. Generic and Feature-based opinion summarizer for online product
5. Road Safety for Kids based on Virtual Reality Interaction Physical Space
Kiran Raja

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
Kiran.raja@ntnu.no
+47 61135374

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE,
EU-H2020-SOTAMD, EU-H2020-
imARS

Expertise
Biometrics, Face recognition,
Privacy, Attack Detection, Deep
Learning, Medical Imaging.

Relevant Industry
Contacts
SINTEF
HORIZON-CL3-2022-FCT-01-04: PUBLIC SPACES ARE PROTECTED WHILE RESPECTING PRIVACY AND AVOIDING MASS SURVEILLANCE

Gioele Barabucci

DEPARTMENT OF DESIGN
FACULTY OF ARCHITECTURE AND DESIGN

Contact information
gioele.barabucci@ntnu.no
+47 73592014

Relevant Industry Contacts
Connections to the world of open source businesses: Mozilla, xWiki, Qt, Red Hat.

Expertise
Information architecture; data modelling; Web technologies; Digital humanities; research data management; Human-Computer interaction; physical/graphical interfaces.

Relevant projects
EU: rurALLURE CSA, DiXiT ITN.

Kiran Raja

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
Kiran.raja@ntnu.no
+47 61135374

Relevant Industry Contacts
SINTEF

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-IMARS

Muhammad Sajjad

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
muhammad.sajjad@ntnu.no
+47 61135374

Relevant Industry Contacts
NIBIO

Expertise
Image Reconstruction, Image and Video analysis, Information security, Big Data analysis.

AI-driven actionable intelligence surveillance system can be designed and developed.

Relevant projects
1. ALAMEDA Project (Continue)
2. Smart Neck Collar for Livestock
3. Generic and Feature-based opinion summarizer for online product
5. Road Safety for Kids based on Virtual Reality Interaction Physical Space
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 2.

The following pages are sorted into the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 2 - CALLS

Click on the call to be directed to its page

HORIZON-CL3-2022-BM-01-01 Improved underwater detection and control capabilities to protect maritime areas and sea harbours

HORIZON-CL3-2022-BM-01-02: Enhanced security of, and combating the frauds on, identity management and identity and travel documents

HORIZON-CL3-2022-BM-01-03: Better, more portable and quicker analysis and detection for customs

Edmund Brekke

**DEPARTMENT OF ENGINEERING CYBERNETICS**
**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Contact information**
edmund.brekke@ntnu.no  
+47 92405873

**Expertise**
Sensor Fusion.

**Relevant projects**
Autosea - Sensor Fusion and Collision Avoidance for Autonomous Surface Vehicles.

**Relevant Industry Contacts**
Active collaboration with maritime industri in the Centre for Research-Based Innovation SFI Autoship and related projects.

Kiran Raja

**DEPARTMENT OF COMPUTER SCIENCE**
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**Contact information**
Kiran.raja@ntnu.no  
+47 61135374

**Expertise**
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

**Relevant projects**
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-IMARS

**Relevant Industry Contacts**
SINTEF

John Potter

**DEPARTMENT OF ELECTRONIC SYSTEMS**
**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Contact information**
John.R.Potter@ntnu.no  
+47 41371394

**Expertise**

**Relevant projects**
MORPH, SUNSET, ROMANIS, UNET

**Relevant Industry Contacts**
Maritime Industries
Milica Orlandic

DEPARTMENT OF ELECTRONIC SYSTEMS
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
- satellite systems, hyperspectral imaging, remote sensing, onboard processing, embedded systems, high-performance computing

Relevant projects
- NFR IKTPLUSS MASSIVE
- NFR MAROFF ADRASSO

Contact information
milica.orlandic@ntnu.no
+47 47713077

Relevant Industry Contacts
- space, electronics

Muhammad Sajjad

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
- Image Reconstruction, Image and Video analysis, Information security, Big Data analysis.
- Computer vision and Deeplearning.

Relevant projects
- 1. ALAMEDA Project (Continue)
- 2. Smart Neck Collar for Livestock
- 3. Generic and Feature-based opinion summarizer for online product
- 5. Road Safety for Kids based on Virtual Reality Interaction Physical Space

Contact information
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Relevant Industry Contacts
- NIBIO
Kirahvendra Ramachandra

**DEPARTMENT OF LANGUAGE AND LITERATURE**

**DEPARTMENT OF INFORMATION SECURITY AND COMMUNICATION TECHNOLOGY**

**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Expertise**
Biometrics, forensics, border management, privacy, Imaging, Advance machine learning, multi-spectral sensing and algorithms.

**Relevant projects**
FIDELITY (EU FP-7), ORIGINS(EU FP-7), INGRESS(EU FP-7), SWAN(RCN), iMARS (H2020), BATL (IARPA, USA)

**Contact information**
raghavendra.ramachandra@ntnu.no
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**Relevant Industry Contacts**
MOBAI AS, OFFPAD, IDEMIEA, GENKEY

Raghavendra Ramachandra

**DEPARTMENT OF COMPUTER SCIENCE**

**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Expertise**
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

**Relevant projects**
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-iMARS

**Contact information**
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+47 61135374

**Relevant Industry Contacts**
MOBAI AS, OFFPAD, IDEMIEA, GENKEY

Patrick Mikalef

**DEPARTMENT OF COMPUTER SCIENCE**

**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Expertise**
AI, applied data science, business value of ICT, Digital strategy

**Relevant projects**
CADENT

**Contact information**
patrick.mikalef@ntnu.no
+47 48502737

**Relevant Industry Contacts**
SINTEF

Kiran Raja

**DEPARTMENT OF COMPUTER SCIENCE**

**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Expertise**
Biometrics, forensics, border management, privacy, Imaging, Advance machine learning, multi-spectral sensing and algorithms.

**Relevant projects**
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-iMARS

**Contact information**
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**Relevant Industry Contacts**
SINTEF
Kiran Raja

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FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
Kiran.raja@ntnu.no
+47 61135374

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-iMARS

Relevant Industry Contacts
SINTEF
Bob O'Hara

DEPARTMENT OF MATHEMATICAL SCIENCES
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Statistics, particularly the development of hierarchical models for complex data structures in biology.

Contact information
bob.ohara@ntu.no
+47 91554416

Elena Celledoni

DEPARTMENT OF MATHEMATICAL SCIENCES
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Mathematics, numerical methods, deep learning as optimal control and dynamical systems.

Contact information
elena.celledoni@ntnu.no

Relevant projects
MSCA IRSES (NTNU leading), MSCA RISE (NTNU leading), MSCA ITN (NTNU WP leader).

Gioele Barabucci

DEPARTMENT OF DESIGN
FACULTY OF ARCHITECTURE AND DESIGN

Expertise
Information architecture; data modelling; Web technologies; Digital humanities; research data management; Human-Computer interaction; physical/graphical interfaces.

Contact information
gioele.barabucci@ntnu.no
+47 73592014

Relevant projects
EU: rurALLURE CSA, DiXiT ITN.

Relevant Industry Contacts
Connections to the world of open source businesses: Mozilla, xWiki, Qt, Red Hat.
Kirans Raja

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact Information
Kiran. raja@ntnu. no
+47 61135374

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant Projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAM, EU-H2020-iMARS

Relevant Industry Contacts
SINTEF

Muhammad Sajjad

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact Information
muhammad. sajjad@ntnu. no
+47 61135374

Expertise
Image Reconstruction, Image and Video analysis, Information security, Big Data analysis.

Relevant Projects
1. ALAMEDA Project (Continue)
2. Smart Neck Collar for Livestock
3. Generic and Feature-based opinion summarizer for online product
5. Road Safety for Kids based on Virtual Reality Interaction Physical Space

Relevant Industry Contacts
NIBIO
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 3.

The following pages are sorted into the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.

Destination 3: Resilient infrastructure
HORIZON-CL3-2022-INFRA-01-01 Nature-based Solutions integrated to protect local infrastructure

HORIZON-CL3-2022-INFRA-01-02 Autonomous systems used for infrastructure protection
Kiran Raja
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
Kiran.raja@ntnu.no
+47 61135374

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-IMARS

Patrick Mikalef
DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
patrick.mikalef@ntnu.no
+47 48502737

Expertise
AI, applied data science, business value of ICT, Digital strategy

Relevant projects
CADENT

Quoc Anh Tran
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
FACULTY OF ENGINEERING

Contact information
quoc.a.tran@ntnu.no
+47 41356941

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).
Anne C. Elster

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Tools and methods, including autotuning for parallel and distributed computing, including HPC & GPU computing.

Real-time parallel processing, HPC, GPU computing.

Contact information
elster@ntnu.no
+47 981 02 638

Relevant projects
EU FP 7 R&I Cloudlightning (WP leader for HPC), 2015-2018
EU FP 7 MCSA PostDoc TICOH (Taming Irregular Computations on Heterogenous Processors), 2017-2019
Norwegian Center for Research-based Innovation, Center for Geophysical Forecasting (WP leader for HPC), 2020-2025

Relevant Industry Contacts
Equinor, IBM, Intel, NVIDIA ++

Edmund Brekke

DEPARTMENT OF ENGINEERING CYBERNETICS
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Expertise
Sensor Fusion.

Contact information
edmund.brekke@ntnu.no
+47 92405873

Relevant Industry Contacts
Active collaboration with maritime industri in the Centre for Research-Based Innovation SFI Autoship and related projects.

Relevant projects
Autosea - Sensor Fusion and Collision Avoidance for Autonomous Surface Vehicles.

Frank Lindseth

DEPARTMENT OF COMPUTER SCIENCE
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
frankl@ntnu.no
**Gioele Barabucci**

**DEPARTMENT OF DESIGN**
**FACULTY OF ARCHITECTURE AND DESIGN**

**Contact information**
gioele.barabucci@ntnu.no
+47 73592014

**Relevant Industry Contacts**
Connections to the world of open source businesses: Mozilla, xWiki, Qt, Red Hat.

**Expertise**
Information architecture; data modelling; Web technologies; Digital humanities; research data management; Human-Computer interaction; physical/graphical interfaces.

**Relevant projects**
EU: rurALLURE CSA, DIXIT ITN.

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**Jingyue Li**

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**Contact information**
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+47 91897446

**Relevant Industry Contacts**
DNV, SINTEF, Equinor, NGI, Kantega

**Expertise**
Blockchain technologies, software engineering, software security, Machine learning, system safety, and circular economy

**Relevant projects**
(PaaSforChain) (2020-2023) (PI)
(SmartRehab)(2020-2021)(PI)
CyberSmart
IPIT
CIRCit (2017-2020) (Work Package leader)
SAREPTA (2017-2020) (Key Scientist)
SafeCop (2016-2019) (Key Scientist)
Model-Based Testing of Spacecraft Control Software (2011-2013) (Key Scientist)

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**Muhammad Sajjad**

**DEPARTMENT OF COMPUTER SCIENCE**
**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

**Contact information**
muhammad.sajjad@ntnu.no
+47 61135374

**Relevant Industry Contacts**
NIBIO

**Expertise**
Image Reconstruction, Image and Video analysis, Information security, Big Data analysis.

**Relevant projects**
1. ALAMEDA Project (Continue)
2. Smart Neck Collar for Livestock
3. Generic and Feature-based opinion summarizer for online product
5. Road Safety for Kids based on Virtual Reality Interaction Physical Space
Per Gunnar Kjeldsberg
DEPARTMENT OF ELECTRONIC SYSTEMS
FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

Contact information
pgk@ntnu.no
+47 7359 4405

Relevant Industry Contacts
Norway has a very strong industrial cluster in the field of microelectronics with which we cooperate closely. Examples are Nordic Semiconductor, Silicon Labs, ARM Norway, Microchip.

Expertise
Energy efficient embedded heterogeneous multi-processor systems, with a focus on Internet of Things, multi-media, and digital signal processing applications.

Relevant projects
Runtime Exploitation of Application Dynamism for Energy-efficient eXascale computing (www.readex.eu)
Towards Ubiquitous Low-power Image Processing Platforms (www.tulipp.eu)

Quoc Anh Tran
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
FACULTY OF ENGINEERING

Contact information
quoc.a.tran@ntnu.no
+47 41356941

Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

Raghavendra Ramachandra
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Relevant Industry Contacts
MOBAI AS, OFFPAD, IDEMIEA, GENKEY

Expertise
Biometrics, forensics, border management, privacy, Imaging, Advance machine learning, multi-spectral sensing and algorithms.

Relevant projects
FIDELITY (EU FP-7), ORIGINS(EU FP-7),, INGRESS(EU FP-7),, SWAN(RCN), iMARS (H2020), BATL (IARPA, USA)
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 4.

The following pages are sorted into the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 4 - CALLS

Click on the call to be directed to its page

HORIZON-CL3-2022-CS-01-01 Improved monitoring of threats, intrusion detection and response in complex and heterogeneous digital systems and infrastructures

HORIZON-CL3-2022-CS-01-02 Trustworthy methodologies, tools and data security “by design” for dynamic testing of potentially vulnerable, insecure hardware and software components

HORIZON-CL3-2022-CS-01-03: Transition towards Quantum-Resistant Cryptography

HORIZON-CL3-2022-CS-01-04 Development and validation of processes and tools used for agile certification of ICT products, ICT services and ICT processes
HORIZON-CL3-2022-CS-01-01: IMPROVED MONITORING OF THREATS, INTRUSION DETECTION AND RESPONSE IN COMPLEX AND HETEROGENEOUS DIGITAL SYSTEMS AND INFRASTRUCTURES

John Potter
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Relevant Industry Contacts
Maritime Industries

Expertise

Relevant projects
MORPH, SUNSET, ROMANIS, UNET

Nektaria Kaloudi
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Expertise
Increasing knowledge on how an attacker might use AI technologies to attack systems. How AI can be used to improve systems robustness against emergent threat behaviors due to malign actions. Analyze, predict and prevent adverse consequences due to emergent phenomena in cyber-physical systems. Developed frameworks in order to give an overall view of an area that integrates existing literature and exposes topics that need additional research and awareness.

Better prediction of cybersecurity threats and related risks.

Relevant projects
PhD project on cybersecurity, safety, and resilience of smart cities.
Quoc Anh Tran

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**FACULTY OF ENGINEERING**

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**Relevant Industry Contacts**
Some companies related to renewable energy (wind and wave/tidal energy).

**Expertise**
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

**Relevant projects**
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

Stefan Werner

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**Expertise**

**Relevant projects**
COPS: Comprehensive privacy and security for resilient CPS/IoT, Research Council of Norway; Resource-aware IoT with Enhanced Intelligence and Security, Research Council of Norway; ART: Autonomous Resource-constrained Things, Research Council of Norway; MAMONET: Massive MIMO for Securing Internet of Things Networks, Marie-Curie IF, Horizon 2020, EU; Robust Demand-End Optimization with Event-Triggered Situational Awareness.” Academy Project funding by Academy of Finland.

Giøele Barabucci
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Faculty of Architecture and Design

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Expertise
Information architecture; data modelling; Web technologies; Digital humanities; research data management; Human-Computer interaction; physical/graphical interfaces.

Relevant projects
EU: rurALLURE CSA, DIXIT ITN.

Relevant Industry Contacts
Connections to the world of open source businesses: Mozilla, xWiki, Qt, Red Hat.

Jingyue Li
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Faculty of Information Technology and Electrical Engineering

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Expertise
Blockchain technologies, software engineering, software security, Machine learning, system safety, and circular economy

Relevant projects
(PaaSforChain) (2020-2023) (PI)
(SmartRehab) (2020-2021) (PI)
CyberSmart
IPIT
CIRCit (2017-2020) (Work Package leader)
SAREPTA (2017-2020) (Key Scientist)
SafeCop (2016-2019) (Key Scientist)
Model-Based Testing of Spacecraft Control Software (2011-2013) (Key Scientist)

Relevant Industry Contacts
DNV, SINTEF, Equinor, NGI, Kantega
Kiran Raja

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Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE, EU-H2020-SOTAMD, EU-H2020-IMARS

Relevant Industry Contacts
SINTEF
Jingyue Li

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Expertise
Blockchain technologies, software engineering, software security, Machine learning, system safety, and circular economy

Relevant projects
(PaaSforChain) (2020-2023) (PI)
(SmartRehab) (2020-2021) (PI)
CyberSmart
IPIT
CIRCit (2017-2020) (Work Package leader)
SAREPTA (2017-2020) (Key Scientist)
SafeCop (2016-2019) (Key Scientist)
Model-Based Testing of Spacecraft Control Software (2011-2013) (Key Scientist)

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Relevant Industry Contacts
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Expertise
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(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

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Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 5.

The following pages are sorted into the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
DESTINATION 5 - CALLS

Click on the call to be directed to its page

HORIZON-CL3-2022-DRS-01-01 Enhanced citizen preparedness in the event of a disaster or crisis-related emergency

HORIZON-CL3-2022-DRS-01-03 Improved quality assurance / quality control of data used in decision-making related to risk management of natural hazards, accidents and CBRN events

HORIZON-CL3-2022-DRS-01-04 Better understanding of citizens’ behavioural and psychological reactions in the event of a disaster or crisis situation

HORIZON-CL3-2022-DRS-01-05 Improved impact forecasting and early warning systems supporting the rapid deployment of first responders in vulnerable areas

HORIZON-CL3-2022-DRS-01-06 Improved disaster risk pricing assessment

HORIZON-CL3-2022-DRS-01-07 Improved international cooperation addressing first responder capability gaps

HORIZON-CL3-2022-DRS-01-08 Enhanced situational awareness and preparedness of first responders and improved capacities to minimise time-to-react in urban areas in the case of CBRN-E-related events

HORIZON-CL3-2022-DRS-01-09 Enhanced capacities of first responders more efficient rescue operations, including decontamination of infrastructures in the case of a CBRN-E event
Karin Laumann

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Expertise

Relevant projects
Immersive Visual Technologies for Safety-critical Applications (ImmerSAFE).
Inter-organizational complexity. Petro-HRA.
Safety management system. ELAD/Implementation of new technology.

Quoc Anh Tran

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Expertise
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(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures
HORIZON-CL3-2022-DRS-01-02: ENHANCED PREPAREDNESS AND MANAGEMENT OF HIGH-IMPACT LOW-PROBABILITY OR UNEXPECTED EVENTS

Karin Laumann
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FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES

Expertise

Relevant projects

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Expertise

Relevant projects
experience in EU projects MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).
Bob O'Hara

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Expertise
Statistics, particularly the development of hierarchical models for complex data structures in biology.

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Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling.

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures
HORIZON-CL3-2022-DRS-01-04: BETTER UNDERSTANDING OF CITIZENS’ BEHAVIOURAL AND PSYCHOLOGICAL REACTIONS IN THE EVENT OF A DISASTER OR CRISIS SITUATION

**Karin Laumann**

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**FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES**

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**Expertise**  

**Relevant projects**  

**Kerstin Bach**

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**FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

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**Expertise**  
Artificial Intelligence, Decision Support Systems, Case-Based Reasoning, eHealth, mHealth, Machine Learning.

**Relevant projects**  
selfBACK  
AI4EU  
Back-Up

**Relevant Industry Contacts**
Telecommunications, energy, financial services, manufacturing
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Expertise
Statistics, particularly the development of hierarchical models for complex data structures in biology.

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Relevant Industry Contacts
Maritime Industries

Expertise

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Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures
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Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant projects
experience in EU projects
MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures
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Expertise

Relevant projects

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Edmund Brekke

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FACULTY OF INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING

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Expertise
Sensor Fusion.

Relevant Industry Contacts
Active collaboration with maritime industri in the Centre for Research-Based Innovation SFI Autoship and related projects.

Relevant projects
Autosea - Sensor Fusion and Collision Avoidance for Autonomous Surface Vehicles.

Karin Laumann

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Expertise

Relevant projects

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+47 41356941

Expertise
(1) Computational and Numerical analysis in high-performance computing.
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

Relevant Industry Contacts
Some companies related to renewable energy (wind and wave/tidal energy).

Relevant projects
experience in EU projects MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures.
HORIZON-CL3-2022-DRS-01-09: ENHANCED CAPACITIES OF FIRST RESPONDERS MORE EFFICIENT RESCUE OPERATIONS, INCLUDING DECONTAMINATION OF INFRASTRUCTURES IN THE CASE OF A CBRN-E EVENT

**Karin Laumann**

**DEPARTMENT OF PSYCHOLOGY**
**FACULTY OF SOCIAL AND EDUCATIONAL SCIENCES**

**Expertise**

**Relevant projects**
Immersive Visual Technologies for Safety-critical Applications (ImmerSAFE).
Inter-organizational complexity.
Petro-HRA.
Safety management system.
ELAD/Implementation of new technology.

**Contact information**
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**Quoc Anh Tran**

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**Expertise**
(1) Computational and Numerical analysis in high-performance computing. 
(2) Machine learning.
(3) Numerical methods for solid mechanics, fluid dynamics, fluid flow in porous media and thermal, mechanical, hydraulic coupling

**Relevant projects**
experience in EU projects MSCA-IF-2020 Submarine landslides and their impacts on offshore infrastructures

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**Relevant Industry Contacts**
Some companies related to renewable energy (wind and wave/tidal energy).
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 6.

The following pages are sorted into the calls for the destination presented in the work programme for cluster 3. To simplify your navigation among available expertises per topic, the list of topics have been made clickable.
HORIZON-CL3-2022-SSRI-01-01 Increased foresight capacity for security

HORIZON-CL3-2022-SSRI-01-02 Knowledge Networks for security Research & Innovation

HORIZON-CL3-2022-SSRI-01-03 Stronger grounds for pre-commercial procurement of innovative security technologies

HORIZON-CL3-2022-SSRI-01-04 Social innovations as enablers of security solutions and increased security perception
John Potter

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Relevant Industry
Contacts
Maritime Industries

Expertise

Relevant projects
MORPH, SUNSET, ROMANIS, UNET
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Relevant Industry Contacts
SINTEF

Expertise
Biometrics, Face recognition, Privacy, Attack Detection, Deep Learning, Medical Imaging.

Relevant projects
EU-FP7-INGRESS, EU-FP7-TURBINE,
EU-H2020-SOTAMD, EU-H2020-IMARS
Jingyue Li

Department of Computer Science
Faculty of Information Technology and Electrical Engineering

Expertise
Blockchain technologies, software engineering, software security, Machine learning, system safety, and circular economy

Relevant projects
(PaaSforChain) (2020-2023) (PI)
(SmartRehab) (2020-2021) (PI)
CyberSmart
IPIT
CIRCl (2017-2020) (Work Package leader)
SAREPTA (2017-2020) (Key Scientist)
SafeCop (2016-2019) (Key Scientist)
Model-Based Testing of Space Craft Control Software (2011-2013) (Key Scientist)

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Relevant Industry Contacts
DNV, SINTEF, Equinor, NGI, Kantega

Karin Laumann

Department of Psychology
Faculty of Social and Educational Sciences

Expertise

Relevant projects
Immersive Visual Technologies for Safety-critical Applications (ImmerSAFE).
Inter-organizational complexity. Petro-HRA.
Safety management system. ELAD/Implementation of new technology.

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IE FACULTY