

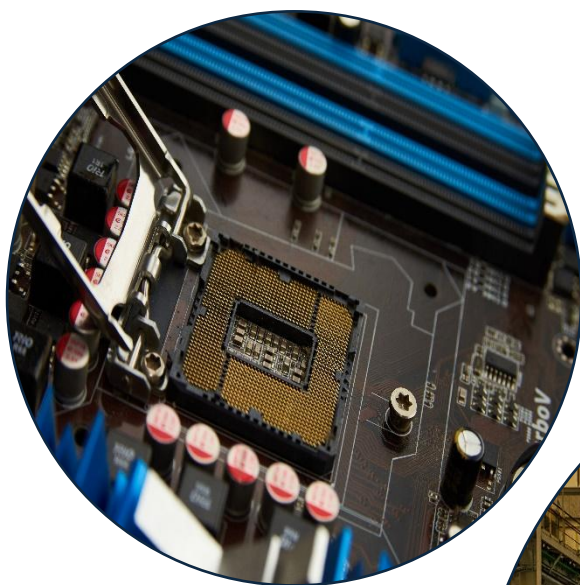


AALBORG UNIVERSITET

# HORIZON EUROPE 2025/2026 CALLS

## CLUSTER 4 – DIGITAL, INDUSTRY AND SPACE

AAU Fundraising & Project Management Office



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# INTRODUCTION

## AAU HORIZON EUROPE COMPENDIUM

Interested in finding academic partners for the upcoming Horizon Europe calls? At AAU, we have collected, mapped, and showcased AAU researchers' interest in collaborating on specific topics within the six clusters of Pillar 2 (including EU Missions & Cross-cutting activities). Each compendium displays our showcased researcher's relevant expertise within each identified topic, which makes it easy to locate AAU researchers who are interested in collaborating and providing their expertise in your next Horizon Europe proposal.

## ABOUT AAU

AAU has campuses in Aalborg, Copenhagen, and Esbjerg, as well as an EU office in Brussels. We have 3.700 staff, 18.000 students and an annual turnover of DKK 3 billion.

AAU is a comprehensive university covering four faculties and 18 departments, such as Sustainability and Planning, Energy, Health Science and Technology, Computer Science, Built Environment, Politics and Society, Culture and Learning.

With problem-based learning at the heart of educational programs, AAU researchers and students are well-equipped to take on current and future societal, environmental and economic challenges.

## OUR PROFILE AND DNA – WHY SHOULD YOU PARTNER WITH US?

Collaboration is heavily embedded in the DNA of AAU. We have a strong and natural collaboration with industry and the surrounding society – thus our current strategy is labeled “Knowledge for the World 2.0”.

We are a mission-oriented university, with three identified AAU Missions:

1. A Sustainable Danish Energy System
2. Improved Wellbeing Among Children and Youth in Denmark
3. Improving Health Through Coherence and Individualisation

As the second best ranked engineering university in Europe, and being no. 16 globally (ranking from the U.S. News & World Report), as well as being in top 5 of universities pursuing the UN sustainable development goals (THE University Impact Rating), we are a very capable partner and collaborator.

AAU has contributed as coordinator or partner in close to 200 projects in the EU Horizon 2020 Framework Programme. For Horizon Europe we have – so far – contributed to more than 150 projects. We are setting even more ambitious targets for Horizon Europe in 2025 and going forward.

## **DESTINATION 1**

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### **CLIMATE NEUTRAL, CIRCULAR AND DIGITALISED PRODUCTION**

# **DESTINATION 1: CALLS**

**CALL – CLIMATE NEUTRAL, CIRCULAR AND DIGITALISED  
PRODUCTION**



## **DESTINATION 2**

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**INCREASED AUTONOMY IN KEY  
STRATEGIC VALUE CHAINS FOR  
RESILIENT INDUSTRY**



## DESTINATION 2: CALLS

### CALL – INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY

HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-61: Technologies for critical raw materials and strategic raw materials from end-of-life products (IA)

## **HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-61: TECHNOLOGIES FOR CRITICAL RAW MATERIALS AND STRATEGIC RAW MATERIALS FROM END-OF-LIFE PRODUCTS (IA)**



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#### **RELEVANT LINKS OUTSIDE ACADEMIA**

Many Industrial partners in different  
sectors both in Denmark and in Europe

#### **AREA OF EXPERTISE**

Development, characterization, and testing of  
materials (polymers, composites, metals, and  
ceramics).

Chemical recycling of mixed plastic waste, textiles,  
thermoset plastic and composite materials by  
pyrolysis and solvolysis.

Chemical recycling of batteries and E-waste.

Separation and purification technologies

Quantitative chemical analysis

High temperature and high pressure technologies

Supercritical CO<sub>2</sub> extraction

## **DESTINATION 3**

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# **WORLD LEADING DATA AND COMPUTING TECHNOLOGIES**

## DESTINATION 3: CALLS

### CALL – WORLD LEADING DATA AND COMPUTING TECHNOLOGIES

HORIZON-CL4-2025-03-DATA-08: Large-scale pilots for supply end-to-end infrastructures integrating device, network computing and communication capabilities for Telco Edge Cloud deployments, as a basis for Connected Collaborative Computing Networks (3C networks) (RIA)

HORIZON-CL4-2025-03-DATA-10: Roadmap for next generation computing technologies from IoT device level to edge to cloud to HPC (CSA)

HORIZON-CL4-2025-03-DATA-13: Fostering Innovative and Compliant Data Ecosystems (AI, Data and Robotics Partnership) (IA)

HORIZON-CL4-2025-04-DATA-02: Empowering AI/generative AI along the Cognitive Computing continuum (AI/Data/Robotics Partnership) (RIA)

## **HORIZON-CL4-2025-03-DATA-08: LARGE-SCALE PILOTS FOR SUPPLY END-TO-END INFRASTRUCTURES INTEGRATING DEVICE, NETWORK COMPUTING AND COMMUNICATION CAPABILITIES FOR TELCO EDGE CLOUD DEPLOYMENTS, AS A BASIS FOR CONNECTED COLLABORATIVE COMPUTING NETWORKS (3C NETWORKS) (RIA)**



**Hossam Farag**

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The Technical Faculty of IT and Design

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### **HIGHLIGHTED AAU RESEARCH GROUPS**

Member of ECN research group

### **RELEVANT LINKS OUTSIDE ACADEMIA**

Nokia, BOSCH, Toshiba, Ericsson

### **AREA OF EXPERTISE**

Wireless communication and networking  
Industrial IoT  
Application of AI/ML in wireless communication

Networks  
Mobile communication  
Industrial IoT



## Sokol Kosta

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### HIGHLIGHTED AAU RESEARCH GROUPS

Edge Computing and Networking  
Cyber Security Group  
AI for the People

### MEMBERSHIP OF EU PARTNERSHIPS

Vice-chair – IEEE TCGCC: Technical Committee on Green Communications and Computing, Special Interest Group (SIG) on Green Digital Twin Network

### RELEVANT LINKS OUTSIDE ACADEMIA

Industry collaboration: Nvidia Denmark, Terma A/S (Quantum Research Department, Denmark)

### AREA OF EXPERTISE

IoT-Edge-Cloud  
continuum computing  
Edge-AI systems  
Computation  
Acceleration  
Task offloading and orchestration  
Post-quantum cryptography for critical infrastructure  
Distributed computing  
Lightweight authentication  
Computation offloading, edge/cloud computing, task orchestration

### RELEVANT PROJECTS

**(2023 – 2026) EU Horizon KDT JU “CLEVER:**

Collaborative edge-cCloud continuum and Embedded AI for a Visionary industry of the future”

**(2022 – 2027) EU Horizon Europe “I3LUNG:**

Integrative science, Intelligent data platform for Individualized LUNG cancer care with Immunotherapy”

**(2015 – 2017) EU H2020**

**“RAPID:** Heterogeneous Secure Multi-Level Remote Acceleration Service for Low-Power Integrated Systems and Devices”

**(2012 – 2015) EU STREP**

**FP7 “TROPIC:** Distributed computing, storage and radio resource allocation over cooperative femtocells”

## HORIZON-CL4-2025-03-DATA-10: ROADMAP FOR NEXT GENERATION COMPUTING TECHNOLOGIES FROM IOT DEVICE LEVEL TO EDGE TO CLOUD TO HPC (CSA)



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#### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Data Engineering, Science and Systems (DESS) group

#### MEMBERSHIP OF EU PARTNERSHIPS

Associate Editor  
IEEE Network  
IEEE Transactions on Intelligent Vehicles

#### AREA OF EXPERTISE

Data management and analytics  
Intelligent transportation  
Artificial intelligence and machine learning  
Digital twin  
Internet of Things  
Edge and distributed computing  
Autonomous vehicles

Expertise specific to this call: edge computing, Internet of Things, federated learning, distributed computing, digital twin

#### RELEVANT PROJECTS

Project co-investigator, HORIZON, MobiSpaces: New Data Spaces for Green Mobility

Project co-investigator, DIREC, Multimodal Data Processing of Earth Observation Data



## HORIZON-CL4-2025-03-DATA-13: FOSTERING INNOVATIVE AND COMPLIANT DATA ECOSYSTEMS (AI, DATA AND ROBOTICS PARTNERSHIP) (IA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Data Engineering, Science and Systems (DESS) group

### MEMBERSHIP OF EU PARTNERSHIPS

Associate Editor  
IEEE Network  
IEEE Transactions on Intelligent Vehicles

### AREA OF EXPERTISE

Data management and analytics  
Intelligent transportation  
Artificial intelligence and machine learning  
Digital twin  
Internet of Things  
Edge and distributed computing  
Autonomous vehicles

Expertise specific to this call: AI-driven data governance, federated and decentralized data ecosystems, digital twin

### RELEVANT PROJECTS

Project co-investigator, HORIZON, MobiSpaces: New Data Spaces for Green Mobility

Project co-investigator, DIREC, Multimodal Data Processing of Earth Observation Data

## **HORIZON-CL4-2025-04-DATA-02: EMPOWERING AI/GENERATIVE AI ALONG THE COGNITIVE COMPUTING CONTINUUM (AI/DATA/ROBOTICS PARTNERSHIP) (RIA)**



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### **HIGHLIGHTED AAU RESEARCH GROUPS**

Member of Edge Computing and  
Networking (ECN) research group

### **RELEVANT LINKS OUTSIDE ACADEMIA**

<https://www.nordforsk.org>

### **AREA OF EXPERTISE**

Wireless Networks; non-  
terrestrial networks  
Wireless Communications  
Machine Learning  
Edge computing  
Reinforcement learning

### **RELEVANT PROJECTS**

Celtic Next 6G-SKY  
Self Learning Drone  
Detection System

## **DESTINATION 4**

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# **CLEAN DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL**

## DESTINATION 4: CALLS

### CALL – DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL

HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-61: AI Foundation models in science (RIA)

HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-62: Facilitated cooperation for AI in Science (CSA)

HORIZON-CL4-2025-03-DIGITAL-EMERGING-03: Supporting Digital Partnerships in Quantum technologies (RIA)

HORIZON-CL4-2025-03-DIGITAL-EMERGING-07: Robust and trustworthy GenerativeAI for Robotics and industrial automation (AI/Data/Robotics & Made in Europe Partnerships) (RIA)

HORIZON-CL4-2025-04-DIGITAL-EMERGING-05: Soft Robotics for Advanced physical capabilities (AI/Data/Robotics Partnership) (IA)

HORIZON-CL4-2025-04-DIGITAL-EMERGING-07: Enhanced Learning Strategies for General Purpose AI: Advancing GenAI4EU (AI/Data/Robotics Partnership) (RIA)

## HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-61: AI FOUNDATION MODELS IN SCIENCE (RIA)



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#### HIGHLIGHTED AAU RESEARCH GROUPS

Reliability of Power Electronic Converters

#### AREA OF EXPERTISE

Artificial intelligence and system informatics: physics-informed machine learning, information fusion, data analytics, digital twin, condition & health monitoring, prognostics and health management.

Reliability for power electronics: Physics-of-failure, degradation modeling, lifetime and reliability estimation, accelerated testing experiment, health-aware control.

#### RELEVANT PROJECTS

##### European Projects:

**TEAMING:** E-powertrain Predictive Maintenance Using Physics Informed Learning, European Horizon MSCA

**ALL2GAN:** Affordable smart GaN IC solutions as enabler of greener applications, European Chips Joint-undertaking

##### National Projects:

**Phy-caliper:** Discovering Unknown Physics for Calibrating Predictive Maintenance in Power Electronics, Villum Experiment.

**Light-AI:** Light-AI for Cognitive Power Electronics, Villum Synergy.

**AI-Power:** Physics-informed AI for Next Generation Power Electronics, IFD grand solution.



## Sean Bin Yang

Department of Computer Science

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### HIGHLIGHTED AAU RESEARCH GROUPS

Data Engineering, Science and System  
Artificial Intelligence and Machine Learning

### MEMBERSHIP OF EU PARTNERSHIPS

Chapter Treasurer of Denmark Section Chapter, IEEE Computer Society

### RELEVANT LINKS OUTSIDE ACADEMIA

National Natural Science Foundation of China (RMB: 300,000)  
Chongqing Natural Science Foundation Innovation and Development Joint Project (Grant No. CSTB2023NS CQ-LZX0170, Chongqing China)  
Scientific and Technological Research Program of Chongqing Municipal Education Commission (Grant No. KJQN202400637, Chongqing, China)

### AREA OF EXPERTISE

My research mainly focusses on efficient, effective, and explainable representation learning (Foundation model) based on some advanced technologies, such as self-supervised learning, meta-learning, increment learning, especially for the smart transportation systems and spatial-temporal data mining.

### RELEVANT PROJECTS

#### National Natural Science Foundation of China:

Developing a Generalizable and Interpretable Foundation Model for the Spatiotemporal Trajectories of Moving Objects (RMB 300,000)

#### Chongqing Natural Science Foundation Innovation and Development Joint Project:

Study on intelligent control of cabin air conditioning (RMB 1,000,000)

#### Scientific and Technological Research Program of Chongqing Municipal Education Commission:

Research on Key Technologies for General Multimodal Spatiotemporal Data Analysis of Moving Objects for Open Scenes (RMB 40,000)

#### Doctoral Research Start-up Funding Project:

Study on cross-domain spatiotemporal trajectory data representation learning (RMB 85,000)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Machine Learning Group,  
Department of Computer Science,  
Aalborg University

### RELEVANT LINKS OUTSIDE ACADEMIA

Collaborations with industry on  
probabilistic modeling and AI  
applications

Member of international research  
networks in probabilistic machine  
learning

Organizer of the Nordic  
Probabilistic AI School (ProbAI)

### AREA OF EXPERTISE

Probabilistic Machine

Learning

Trustworthy and Explainable  
AI

Deep Learning and Neural  
Networks

Probabilistic Programming

Modeling Uncertainty

Large-Scale Machine  
Learning

### RELEVANT PROJECTS

#### Relevant Expertise:

Probabilistic Machine  
Learning for large-scale  
data modeling  
Bayesian methods for  
deep learning models

#### Relevant Projects:

##### Explainable Machine

**Learning:** A Probabilistic  
Approach (Co-PI, Spanish  
National Grant, 2020-  
2022)

##### DarkScience Project:

Illuminating microbial dark  
matter through data  
science (Villum  
Foundation)



## HORIZON-CL4-INDUSTRY-2025-01-DIGITAL-62: FACILITATED COOPERATION FOR AI IN SCIENCE (CSA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Machine Learning Group,  
Department of Computer Science,  
Aalborg University

### RELEVANT LINKS OUTSIDE ACADEMIA

Collaborations with industry on probabilistic modeling and AI applications  
Member of international research networks in probabilistic machine learning  
Organizer of the Nordic Probabilistic AI School (ProbAI)

### AREA OF EXPERTISE

Probabilistic Machine Learning  
Trustworthy and Explainable AI  
Deep Learning and Neural Networks  
Probabilistic Programming  
Modeling Uncertainty  
Large-Scale Machine Learning

### RELEVANT PROJECTS

#### Relevant Expertise:

Large-scale machine learning for scientific discovery  
Generative modeling and uncertainty quantification in AI models  
Collaboration with interdisciplinary teams on AI-driven scientific research

#### Relevant Projects:

##### Explainable Machine

**Learning:** A Probabilistic Approach (Co-PI, Spanish National Grant, 2020-2022)

##### DarkScience Project:

Illuminating microbial dark matter through data science (Villum Foundation)

## HORIZON-CL4-2025-03-DIGITAL-EMERGING-03: SUPPORTING DIGITAL PARTNERSHIPS IN QUANTUM TECHNOLOGIES (RIA)



Yan Kyaw Tun

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### HIGHLIGHTED AAU RESEARCH GROUPS

Edge Computing and Networking  
(ECN) Group

### RELEVANT LINKS OUTSIDE ACADEMIA

Member of IEEE

### AREA OF EXPERTISE

Wireless Networking  
Edge Intelligence  
Machine Learning  
Optimization Theory  
Game Theory

### RELEVANT PROJECTS

I have finished all my education, including my master's and PhD degrees, in the Republic of Korea. Furthermore, I also worked as a postdoc for 1 year in Korea. As a result, I have a strong network in Korea, and it will be amazing to reconnect with the network and do cooperative research. Moreover, I participated in several research projects funded by the Institute of Information & Communications Technology Planning and Evaluation, National Research Foundation (NSF) Korea, and Korea Energy Technology Evaluation and Planning.

## **HORIZON-CL4-2025-03-DIGITAL-EMERGING-07: ROBUST AND TRUSTWORTHY GENERATIVE AI FOR ROBOTICS AND INDUSTRIAL AUTOMATION (AI/DATA/ROBOTICS & MADE IN EUROPE PARTNERSHIPS) (RIA)**



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### **HIGHLIGHTED AAU RESEARCH GROUPS**

Member of Edge Computing and Networking (ECN) research group

### **RELEVANT LINKS OUTSIDE ACADEMIA**

<https://www.nordforsk.org>

### **AREA OF EXPERTISE**

Wireless Networks; non-terrestrial networks  
Wireless Communications  
Machine Learning  
Edge computing  
Reinforcement learning  
Incremental learning

### **RELEVANT PROJECTS**

Self Learning Drone  
Detection System



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### HIGHLIGHTED AAU RESEARCH GROUPS

Machine Learning Group,  
Department of Computer Science,  
Aalborg University

### RELEVANT LINKS OUTSIDE ACADEMIA

Collaborations with industry on  
probabilistic modeling and AI  
applications

Member of international research  
networks in probabilistic machine  
learning

Organizer of the Nordic  
Probabilistic AI School (ProbAI)

### AREA OF EXPERTISE

Probabilistic Machine  
Learning  
Trustworthy and Explainable  
AI  
Deep Learning and Neural  
Networks  
Probabilistic Programming  
Modeling Uncertainty  
Large-Scale Machine  
Learning

### RELEVANT PROJECTS

**Relevant Expertise:**  
Generative AI with  
uncertainty quantification  
PAC-Bayesian approaches  
for robust AI models  
Bayesian deep learning  
for reliable and  
interpretable AI

**Relevant Projects:**  
**Explainable Machine  
Learning:** A Probabilistic  
Approach (Co-PI, Spanish  
National Grant, 2020-  
2022)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Data Engineering, Science and System  
Artificial Intelligence and Machine Learning

### MEMBERSHIP OF EU PARTNERSHIPS

Chapter Treasurer of Denmark  
Section Chapter, IEEE  
Computer Society

### RELEVANT LINKS OUTSIDE ACADEMIA

National Natural Science Foundation of China (RMB: 300,000)  
Chongqing Natural Science Foundation Innovation and Development Joint Project (Grant No. CSTB2023NS CQ-LZX0170, Chongqing China)  
Scientific and Technological Research Program of Chongqing Municipal Education Commission (Grant No. KJQN202400637, Chongqing, China)

### AREA OF EXPERTISE

My research mainly focusses on efficient, effective, and explainable representation learning (Foundation model) based on some advanced technologies, such as self-supervised learning, meta-learning, increment learning, especially for the smart transportation systems and spatial-temporal data mining.

### RELEVANT PROJECTS

#### National Natural Science Foundation of China:

Developing a Generalizable and Interpretable Foundation Model for the Spatiotemporal Trajectories of Moving Objects (RMB 300,000)

#### Chongqing Natural Science Foundation

#### Innovation and Development Joint Project:

Study on intelligent control of cabin air conditioning (RMB 1,000,000)

#### Scientific and Technological Research Program of Chongqing Municipal Education

**Commission:** Research on Key Technologies for General Multimodal Spatiotemporal Data Analysis of Moving Objects for Open Scenes (RMB 40,000)

#### Doctoral Research Start-up Funding Project:

Study on cross-domain spatiotemporal trajectory data representation learning (RMB 85,000)



## Yan Kyaw Tun

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### HIGHLIGHTED AAU RESEARCH GROUPS

Edge Computing and Networking  
(ECN) Group

### RELEVANT LINKS OUTSIDE ACADEMIA

Member of IEEE

### AREA OF EXPERTISE

Wireless Networking  
Edge Intelligence  
Machine Learning  
Optimization Theory  
Game Theory

### RELEVANT PROJECTS

I work on the application of both traditional discriminative AI and generative AI in wireless networking and edge computing.

## HORIZON-CL4-2025-04-DIGITAL-EMERGING-05: SOFT ROBOTICS FOR ADVANCED PHYSICAL CAPABILITIES (AI/DATA/ROBOTICS PARTNERSHIP) (IA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Human-Centred Computing, Department of Computer Science

### RELEVANT LINKS OUTSIDE ACADEMIA

Industrial contacts in Denmark and Australia.

### AREA OF EXPERTISE

Human-Computer Interaction, specialising in:  
Human-robot interaction  
Sound and soundscapes  
Early-stage prototyping methods  
Interaction design

Supporting human decision-making in human-robot collaboration.  
Research experience:  
Early-stage prototyping methods for human-robot interaction  
Collaborative robots for advanced manufacturing of medical devices, focusing on human-centered design.  
Sound as feedback modality for human operation of collaborative robots.



## HORIZON-CL4-2025-04-DIGITAL-EMERGING-07: ENHANCED LEARNING STRATEGIES FOR GENERAL PURPOSE AI: ADVANCING GENAI4EU (AI/DATA/ROBOTICS PARTNERSHIP) (RIA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Machine Learning Group,  
Department of Computer Science,  
Aalborg University

### RELEVANT LINKS OUTSIDE ACADEMIA

Collaborations with industry on probabilistic modeling and AI applications  
Member of international research networks in probabilistic machine learning  
Organizer of the Nordic Probabilistic AI School (ProbAI)

### AREA OF EXPERTISE

Probabilistic Machine Learning  
Trustworthy and Explainable AI  
Deep Learning and Neural Networks  
Probabilistic Programming  
Modeling Uncertainty  
Large-Scale Machine Learning

### RELEVANT PROJECTS

**Relevant Expertise:**  
AI and probabilistic modeling  
Generative AI frameworks and distributed AI systems  
Open-source AI tools for academic and industry collaboration

**Relevant Projects:**  
**Probabilistic AI tools for scalable learning** (NeurIPS, ICML publications)  
**Explainable Machine Learning:** A Probabilistic Approach (Co-PI, Spanish National Grant, 2020-2022)  
**DarkScience Project:** Illuminating microbial dark matter through data science (Villum Foundation)



**Sean Bin Yang**

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**HIGHLIGHTED AAU RESEARCH GROUPS**

Data Engineering, Science and System  
Artificial Intelligence and Machine Learning

**MEMBERSHIP OF EU PARTNERSHIPS**

Chapter Treasurer of Denmark  
Section Chapter, IEEE  
Computer Society

**RELEVANT LINKS OUTSIDE ACADEMIA**

National Natural Science Foundation of China (RMB: 300,000)  
Chongqing Natural Science Foundation Innovation and Development Joint Project (Grant No. CSTB2023NS CQ-LZX0170, Chongqing China)  
Scientific and Technological Research Program of Chongqing Municipal Education Commission (Grant No. KJQN202400637, Chongqing, China)

**AREA OF EXPERTISE**

My research mainly focusses on efficient, effective, and explainable representation learning (Foundation model) based on some advanced technologies, such as self-supervised learning, meta-learning, increment learning, especially for the smart transportation systems and spatial-temporal data mining.

**RELEVANT PROJECTS****National Natural Science Foundation of China:**

Developing a Generalizable and Interpretable Foundation Model for the Spatiotemporal Trajectories of Moving Objects (RMB 300,000)

**Chongqing Natural Science Foundation Innovation and Development Joint Project:**

Study on intelligent control of cabin air conditioning (RMB 1,000,000)

**Scientific and Technological Research Program of Chongqing Municipal Education Commission:**

Research on Key Technologies for General Multimodal Spatiotemporal Data Analysis of Moving Objects for Open Scenes (RMB 40,000)

**Doctoral Research Start-up Funding Project:**

Study on cross-domain spatiotemporal trajectory data representation learning (RMB 85,000)

## **DESTINATION 5**

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**OPEN STRATEGIC AUTONOMY IN  
DEVELOPING, DEPLOYING AND USING  
GLOBAL SPACE-BASED  
INFRASTRUCTURES, SERVICES,  
APPLICATIONS AND DATA**

## DESTINATION 5: CALLS

### CALL – OPEN STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA

HORIZON-CL4-2025-02-SPACE-12: Digital solutions for autonomy for space transportation systems, design and simulation tools - Digital enablers and building blocks (RIA)

HORIZON-CL4-2025-02-SPACE-13: Digital solutions for autonomy for space transportation systems, design and simulation tools – targeting demonstration (IA)

HORIZON-CL4-2025-02-SPACE-31: Digital enablers and building blocks for Earth Observation and Satellite telecommunication for Space solutions (RIA)

HORIZON-CL4-2025-02-SPACE-32: Preparing demonstration missions for collaborative Earth Observation and Satellite telecommunication for Space solutions (IA)

HORIZON-CL4-2025-02-SPACE-45: Supporting the AI/ML digital transition of Copernicus Services (RIA)

HORIZON-CL4-2025-02-SPACE-46: Innovative Earth observation services in support of maritime litter detection and ship source pollution policies (IA)

## HORIZON-CL4-2025-02-SPACE-12: DIGITAL SOLUTIONS FOR AUTONOMY FOR SPACE TRANSPORTATION SYSTEMS, DESIGN AND SIMULATION TOOLS - DIGITAL ENABLERS AND BUILDING BLOCKS (RIA)



Tianyi Li

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### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Data Engineering, Science and Systems (DESS) group

### MEMBERSHIP OF EU PARTNERSHIPS

Associate Editor  
IEEE Network  
IEEE Transactions on Intelligent Vehicles

### AREA OF EXPERTISE

Data management and analytics  
Intelligent transportation  
Artificial intelligence and machine learning  
Digital twin  
Internet of Things  
Edge and distributed computing  
Autonomous vehicles

Expertise specific to this call: spatio-temporal data management and analytics, intelligent transportation, edge computing, digital twin, machine learning

### RELEVANT PROJECTS

Project co-investigator, HORIZON, MobiSpaces: New Data Spaces for Green Mobility

Project co-investigator, DIREC, Multimodal Data Processing of Earth Observation Data

## HORIZON-CL4-2025-02-SPACE-13: DIGITAL SOLUTIONS FOR AUTONOMY FOR SPACE TRANSPORTATION SYSTEMS, DESIGN AND SIMULATION TOOLS – TARGETING DEMONSTRATION (IA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Data Engineering, Science and Systems (DESS) group

### MEMBERSHIP OF EU PARTNERSHIPS

Associate Editor  
IEEE Network  
IEEE Transactions on Intelligent Vehicles

### AREA OF EXPERTISE

Data management and analytics  
Intelligent transportation  
Artificial intelligence and machine learning  
Digital twin  
Internet of Things  
Edge and distributed computing  
Autonomous vehicles

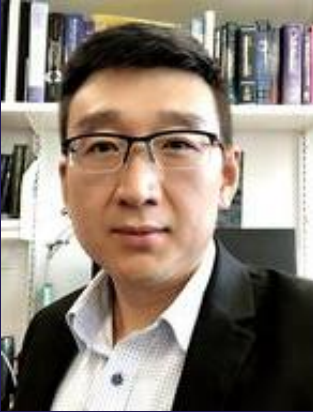
Expertise specific to this call: spatio-temporal data management and analytics, intelligent transportation, edge computing, digital twin, machine learning

### RELEVANT PROJECTS

Project co-investigator, HORIZON, MobiSpaces: New Data Spaces for Green Mobility

Project co-investigator, DIREC, Multimodal Data Processing of Earth Observation Data

## **HORIZON-CL4-2025-02-SPACE-31: DIGITAL ENABLERS AND BUILDING BLOCKS FOR EARTH OBSERVATION AND SATELLITE TELECOMMUNICATION FOR SPACE SOLUTIONS (RIA)**



**Ming Shen**

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### **HIGHLIGHTED AAU RESEARCH GROUPS**

AI RF Sensors

### **AREA OF EXPERTISE**

Experimental datasets (e.g. RIS, active phased arrays, power amplifiers, filters)  
AI for communication systems (e.g. sensing and localization, AI for satellite communication, AI aided generative design of RF hardware)  
Healthcare (e.g. wound infection detection, bone fracture monitoring, nano robot for cancer)  
AI for satellite communications and remote sensing





## Cedomir Stefanovic

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### HIGHLIGHTED AAU RESEARCH GROUPS

Leader of ECN research group

### RELEVANT LINKS OUTSIDE ACADEMIA

DLR Germany, Keysight, Nokia, Otto Bock

### AREA OF EXPERTISE

Wireless communications  
and networks  
6G systems  
IoT  
Open-RAN  
Digital health  
Assistive robotics

### RELEVANT PROJECTS

Disaggregated network  
architectures, access  
networks, digital twins  
DFF project 2 3D-Twin  
“Distributed Digital Twin  
Architecture for 3D  
Network Optimization”



## Yan Kyaw Tun

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### HIGHLIGHTED AAU RESEARCH GROUPS

Edge Computing and Networking  
(ECN) Group

### RELEVANT LINKS OUTSIDE ACADEMIA

Member of IEEE

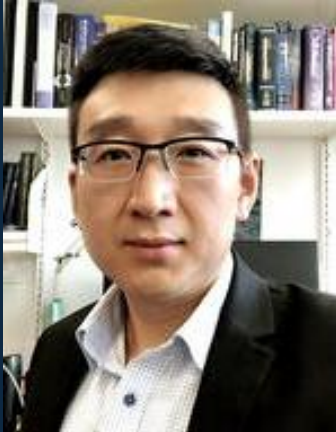
### AREA OF EXPERTISE

Wireless Networking  
Edge Intelligence  
Machine Learning  
Optimization Theory  
Game Theory

### RELEVANT PROJECTS

I have worked and am still working on space communication and computing with the help of AI and machine learning. All my published works on space communication and computing are funded by the Vinnova Center for Trustworthy Edge Computing Systems and Applications and the Swedish Research Council.

## **HORIZON-CL4-2025-02-SPACE-32: PREPARING DEMONSTRATION MISSIONS FOR COLLABORATIVE EARTH OBSERVATION AND SATELLITE TELECOMMUNICATION FOR SPACE SOLUTIONS (IA)**



**Ming Shen**

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### **HIGHLIGHTED AAU RESEARCH GROUPS**

AI RF Sensors

### **AREA OF EXPERTISE**

Experimental datasets (e.g. RIS, active phased arrays, power amplifiers, filters)  
AI for communication systems (e.g. sensing and localization, AI for satellite communication, AI aided generative design of RF hardware)  
Healthcare (e.g. wound infection detection, bone fracture monitoring, nano robot for cancer)  
AI for satellite communications and remote sensing



## Mustafa Özger

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### HIGHLIGHTED AAU RESEARCH GROUPS

Member of Edge Computing and Networking (ECN) research group

### RELEVANT LINKS OUTSIDE ACADEMIA

<https://www.nordforsk.org>

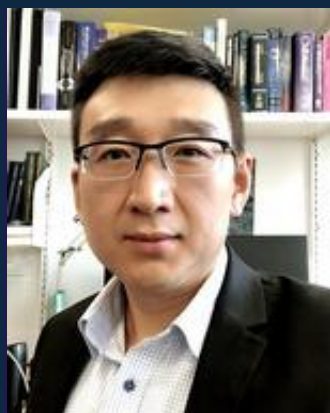
### AREA OF EXPERTISE

Wireless Networks; non-terrestrial networks  
Wireless Communications  
Machine Learning  
Edge computing

### RELEVANT PROJECTS

Celtic Next 6G-SKY

## HORIZON-CL4-2025-02-SPACE-45: SUPPORTING THE AI/ML DIGITAL TRANSITION OF COPERNICUS SERVICES (RIA)



Ming Shen

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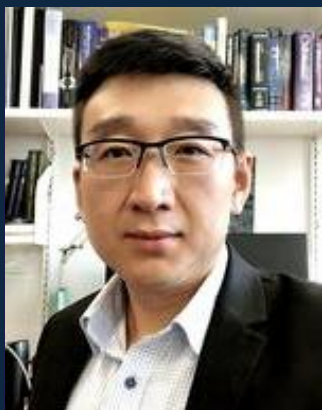
### HIGHLIGHTED AAU RESEARCH GROUPS

AI RF Sensors

### AREA OF EXPERTISE

Experimental datasets (e.g. RIS, active phased arrays, power amplifiers, filters)  
AI for communication systems (e.g. sensing and localization, AI for satellite communication, AI aided generative design of RF hardware)  
Healthcare (e.g. wound infection detection, bone fracture monitoring, nano robot for cancer)  
AI for satellite communications and remote sensing

## HORIZON-CL4-2025-02-SPACE-46: INNOVATIVE EARTH OBSERVATION SERVICES IN SUPPORT OF MARITIME LITTER DETECTION AND SHIP SOURCE POLLUTION POLICIES (IA)



Ming Shen

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The Technical Faculty of IT and Design

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### HIGHLIGHTED AAU RESEARCH GROUPS

AI RF Sensors

### AREA OF EXPERTISE

Experimental datasets (e.g. RIS, active phased arrays, power amplifiers, filters)  
AI for communication systems (e.g. sensing and localization, AI for satellite communication, AI aided generative design of RF hardware)  
Healthcare (e.g. wound infection detection, bone fracture monitoring, nano robot for cancer)  
AI for satellite communications and remote sensing

## **DESTINATION 6**

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# **A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES**

## DESTINATION 6: CALLS

### CALL – A HUMAN-CENTRED AND ETHICAL DEVELOPMENT OF DIGITAL AND INDUSTRIAL TECHNOLOGIES

HORIZON-CL4-2025-04-HUMAN-08: GenAI for Africa (RIA)

HORIZON-CL4-2025-03-HUMAN-18: GenAI4EU central Hub (AI/Data/Robotics Partnership) (CSA)

HORIZON-CL4-INDUSTRY-2025-01-HUMAN-66: Assessment of Technology Infrastructure needs in Ukraine (CSA)



**HORIZON-CL4-2025-04-HUMAN-08: GENAI FOR AFRICA (RIA)****Yan Kyaw Tun**

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**HIGHLIGHTED AAU RESEARCH GROUPS**

Edge Computing and Networking  
(ECN) Group

**RELEVANT LINKS OUTSIDE ACADEMIA**

Member of IEEE

**AREA OF EXPERTISE**

Wireless Networking  
Edge Intelligence  
Machine Learning  
Optimization Theory  
Game Theory

**RELEVANT PROJECTS**

I work on the application of both traditional discriminative AI and generative AI in wireless networking and edge computing.

## HORIZON-CL4-2025-03-HUMAN-18: GENAI4EU CENTRAL HUB (AI/DATA/ROBOTICS PARTNERSHIP) (CSA)



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### HIGHLIGHTED AAU RESEARCH GROUPS

Machine Learning Group,  
Department of Computer Science,  
Aalborg University

### RELEVANT LINKS OUTSIDE ACADEMIA

Collaborations with industry on probabilistic modeling and AI applications  
Member of international research networks in probabilistic machine learning  
Organizer of the Nordic Probabilistic AI School (ProbAI)

### AREA OF EXPERTISE

Probabilistic Machine Learning  
Trustworthy and Explainable AI  
Deep Learning and Neural Networks  
Probabilistic Programming  
Modeling Uncertainty  
Large-Scale Machine Learning

### RELEVANT PROJECTS

#### Relevant Expertise:

AI and probabilistic modeling  
Generative AI frameworks and distributed AI systems  
Open-source AI tools for academic and industry collaboration

#### Relevant Projects:

**Probabilistic AI tools for scalable learning**  
(NeurIPS, ICML publications)

**Explainable Machine Learning:** A Probabilistic Approach (Co-PI, Spanish National Grant, 2020-2022)

**DarkScience Project:** Illuminating microbial dark matter through data science (Villum Foundation)

## HORIZON-CL4-INDUSTRY-2025-01-HUMAN-66: ASSESSMENT OF TECHNOLOGY INFRASTRUCTURE NEEDS IN UKRAINE (CSA)



Olena Kalyanova Larsen

Department of the Built Environment  
The Faculty of Engineering and Science

### CONTACT INFORMATION

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<https://vbn.aau.dk/da/persons/ok>

### HIGHLIGHTED AAU RESEARCH GROUPS

Energy in Buildings

### RELEVANT LINKS OUTSIDE ACADEMIA

Teacher in the Sustainable Building Renovation course offered by Molio, the knowledge center for the Danish construction and civil engineering industry.

### AREA OF EXPERTISE

Intelligent glazed facades - methods for performance evaluation  
Models for thermal and energy performance evaluation  
Natural ventilation and flow behaviour, including ventilated cavities of double-skin facades  
Building Energy Efficiency, including simulation of performance and dynamic energy certification methodologies  
Low-carbon renovation, climate-neutral building design  
Non-visible light properties in built environment  
Valuation of renovation actions – quantification of an added value in the renovation of social housing

I have Ukrainian roots, speak Ukrainian, and possess knowledge of the building industry in Ukraine. There is a pressing need for innovative and cost-effective solutions to improve the energy efficiency of the country's building stock. Currently, I supervise a postdoctoral researcher focused on mapping the energy renovation gap in Ukraine's building sector.