Curriculum Vitae – Roberto Morabito (November 2025)

1 Personal Details

Surname:	Morabito
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Brief Bio: Roberto Morabito is a Tenured Assistant Professor in the Communication Systems Department at EURECOM, France. Before joining EURECOM, he was a Senior Researcher at the Department of Computer Science, University of Helsinki. From May 2014 to April 2022, he was part of Ericsson Research Finland, contributing to the Cloud and System Platforms teams until March 2018, and subsequently to the IoT Technologies and Cyber-Physical Systems team. Between 2014 and 2018, Roberto was a Marie Skłodowska-Curie research fellow within the FP7 ITN project 'METRICS.' He earned his PhD in Networking Technology from Aalto University, Finland, in May 2019. From June 2019 to March 2021, he served as a Postdoctoral Researcher at the EDGE LAB, School of Electrical and Computer Engineering, Princeton University, USA. Roberto has also been a visiting researcher at INRIA Lille, France, the Technical University of Munich, Germany, and Yale University, USA. His work intersects Networked Systems, Edge Computing, and Distributed AI, focusing on trade-offs in AI service provisioning, interoperability, and lifecycle management under computing and networking resource constraints. Recently, he started exploring the impact of generative AI, like Language Models, in these contexts. Previously, he investigated diverse topics in networked systems, including IoT protocols, virtualization, and service mesh technologies.

2 Education

Aalto University, Finland May 2019
Doctor of Science (D.Sc.) in Networking Technology
Thesis Title: *"Lightweight Virtualization in Edge Computing for Internet of Things" –*
Thesis Submission: September 2018. Thesis Defense: April 2019.
Supervising Professor: Professor Jörg Ott (TUM)
Thesis advisor: D.Sc. Nicklas Beijar (Ericsson)
Opponent for public defense: Dr. Eve Schooler, Intel, USA.

Università Mediterranea of Reggio Calabria (UNIRC), Italy December 2013
Master of Science (M.Sc.) in Computer and Telecommunications Systems
Thesis Title: *OpenFlow Impact on Wireless Networks*
Thesis Advisors: Professor Giuseppe Araniti (UNIRC), Professor John Cosmas (Brunel University). Grade: 110/110 cum laude (corresponding to First class honors – 1st)

Università Mediterranea of Reggio Calabria (UNIRC), Italy May 2010
Bachelor of Science (B.Sc.) in Telecommunications
Thesis Title: *Small Scale Propagation Models for DVB-T Systems*
Thesis Advisors: Professor Giuseppe Araniti (UNIRC), Professor Giuseppe Ruggeri (UNIRC). Grade: 110/110 cum laude (corresponding to First class honors – 1st).

3 Current Positions

EURECOM January 2024 –
Assistant Professor and Internet of Things Track Director of the Engineering Studies Present

My research lies at the intersection of Networked Systems, Edge Computing, and Distributed AI, focusing on trade-offs in AI service provisioning, interoperability, and lifecycle management under computing- and networking-resource constraints. Recently, I started to explore how Generative AI can enable adaptive and autonomous AI lifecycle management, particularly in real-world networked and embedded/edge systems. My recent work spans multi-agent collaboration for AI inference and AI-driven orchestration in decentralized environments. I also lead the Internet of Things Engineering Track at EURECOM, overseeing curriculum development, academic content, and student guidance.

University of Helsinki (part-time) January 2024 –
Senior Researcher and Docent (since January 2025) Present

At the University of Helsinki, in the context of the Business Finland-funded project 6G TwinPAN, our work focuses on advancing smart campus IoT networks through the development of SmartSense Mesh, an application designed to optimize sensing and communication across a wide range of smart devices through Tiny Machine Learning (TinyML) algorithms. We are also developing SmartSense Mesh-DT, a digital twin solution that uses AI-powered analytics to evaluate the efficiency and adequacy of physical IoT systems. This project addresses key challenges such as energy efficiency, data quality, and data orchestration, leveraging digital twins in 6G networks to enhance real-time connectivity and interoperability. Our goal is to enable more intelligent, adaptive, and efficient IoT infrastructures, integrating AI-driven decision-making at the edge.

4 Previous Experience

University of Helsinki April 2022 –
Senior Researcher, Project Coordinator and University Teacher January 2024

- Senior Researcher in computer networks and ubiquitous computing with special emphasis on network technologies in 5G and beyond systems, IoT, and cloud/edge computing. Activities are tied to the Nokia Center for Advanced Research (NCAR) and the Edge AI Special Interest Group (SIG) of the Finnish Center for AI (FCAI) and the 6G Flagship.
- Principal Investigator of the project "Digital Twinning of Personal Area Networks for Optimized Sensing and Communication – 6G TwinPAN" (see "Funding").

Origami Cloudless AI (nowadays NINJALABO Oy) September 2022
Co-Founder & CTO –
Origami Cloudless AI is a startup born in the context of the University of Helsinki incubator program "NEXUS — Deep Tech, AI & Sustainability". December 2023

Ericsson, Finland October 2020 –
Senior Researcher and Team Leader April 2022

- *Internet of Things Technologies and Cyber Physical Systems* research area.
- Team leader of the "Enablers for Intelligence" team (12 researchers operating in 4 different Ericsson sites) in the context of the largest Ericsson research program.
- Main research activities in the context of AI-powered services orchestration in edge computing scenarios and Cyber-Physical Systems.

Princeton University, United States June 2019 –
Postdoctoral Research Associate, Department of Electrical Engineering (School of Engineering and Applied Science) March 2021

- Research Associate at the *EDGE LAB* (Directed by Prof. Mung Chiang)
- Main research activities in the context of resource aware distributed inference and federated learning at the network edge.

- Involved in the DARPA Dispersed Computing TA2 project "Network Back Haul Layered Architecture (NEBULA)".

Ericsson, Finland — April 2018 – September 2020
Experienced Researcher

- *Internet of Things Technologies* research team.
- Involved in the ITEA 3 APPSTACLE project.
- Main research activities focusing on IoT protocols (e.g., CoAP, MQTT, LwM2M), distributed AI for IoT, and lightweight orchestration for IoT and Edge Computing.

Ericsson, Finland — May 2014 – March 2018
Researcher

- *Cloud Systems and Platforms* research team.
- Involved in the FP7 Marie Curie ITN Project METRICS.
- Main research activities focusing on distributed cloud, lightweight virtualization (e.g., container, Unikernel), and cloud orchestration (e.g., Docker Swarm, Kubernetes)

Samsung Electronics Italia, Italy — February 2014 – April 2014
Application Test Operator

- Application Test Operator in the Product & Solution Division.

Brunel University London, UK — April 2013 – June 2013
Postgraduate Research Associate

- Main research activities focusing on OpenFlow and Software Defined Networking.
- Member of the organizing committee of the 2014 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting.

Visiting Positions

Aalto University, Finland — June – August 2024
Visiting Professor
Visited the Cloud and Network Computing group for exploring collaboration opportunities. Invited by Assistant Professor Gopika Premsankar.

Yale University, United States — September – November 2023
Visiting Researcher
Collaborated on the "Lean-6G: Learning to Network the Edge in 6G" project, co-funded by the NSF and Research Council of Finland. Invited by Prof. Leandros Tassiulas.

Technical University of Munich, Germany — February 2017 – May 2017
Visiting Researcher
Purpose of the visiting was to enhance the already established research collaboration with the research group for Connected Mobility.

Inria Lille - Nord Europe, France — September 2016 – December 2016
Visiting Researcher
Collaborated with the INRIA FUN (Future Ubiquitous Networks) research team. Invited by Director Nathalie Mitton and Dr. Valeria Loscrí.

Brunel University London, UK — March – September 2013
Visiting Student
Visited the Wireless Network Communications Centre (WNCC), School of Engineering and Design, ECE, on invitation from Prof. John Cosmas.

Universitat Politècnica de Catalunya, Spain — February – July 2008
Visiting Student
Engaged in learning activities in Signal Theory and Electrical Communications at the Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona (ETSETB).

5 Pedagogical Training

- Learning in Higher Education (5cr), Centre for University Teaching and Learning (HYPE), University of Helsinki [December 2022].
- Constructive alignment in course design (5cr), Centre for University Teaching and Learning (HYPE), University of Helsinki [June 2023].
- Academic supervision and supervision training (5cr), Centre for University Teaching and Learning (HYPE), University of Helsinki [December 2023].
- Assessment of Learning and Giving Feedback (5cr), Centre for University Teaching and Learning (HYPE), University of Helsinki [April 2024].

6 Teaching Experience

University Courses

EURECOM

- PROTIoT: IoT Communication Protocols, ***Responsible teacher***, [2024, 2025], bachelor / master level (2.5 ECTS)
- APPIoT: IoT Application Protocols, ***Responsible teacher***, [2024, 2025], bachelor / master level (2.5 ECTS)

University of Helsinki

- CSM13110 Networked AI Systems, ***Responsible teacher***, 2024, master level (5 ECTS)
- CSM13101 Networked Systems and Services, ***Responsible teacher***, 2022, master level (5 ECTS)

Guest Lecturing

- 521043S Internet of Things, master level, *University of Oulu*, 2022, master level (5 ECTS)
- 5G Systems, *Mediterranean University of Reggio Calabria*, 2022, master level (5 ECTS)
- Internet of Things, *Mediterranean University of Reggio Calabria*, 2022, master level (5 ECTS)

7 Research Supervision and Leadership Experience

Supervision of Doctoral Candidate Students

- Paulius Daubaris (@University of Helsinki, PhD student) 2026* [Main Supervisor]
  - Network-Enhanced On-Device AI: Strategies for Interoperable and Cooperative AI Applications
- Yasith R Wanigarathna (@University of Helsinki, PhD student) 2027* [Main Supervisor]
  - Advanced AI in Digital Twins: Enhancing Capabilities in Small-Scale IoT Networks
- Maximilian Abstreiter (@University of Helsinki, PhD student) 2028*
  - Fault-Tolerant Orchestration of Collaborative Generative AI Systems at the Consumer Edge
- Michele Ferrero (@EURECOM, PhD student) 2028*
  - Enhancing AI Clusters with Holistic Monitoring Systems

Supervision of M.Sc. Theses

- Bote Liu (@Ericsson/Aalto University, M.Sc. thesis), 2019
  - Study and benchmarking of Artificial Intelligence (AI) model serving systems on edge computation units and cloud environments.
- Elisa Baldissarri (@Ericsson/KTH, M.Sc. thesis), 2021
  - Cross-layer optimization for joint visual-inertial localization and object detection on resource-constrained devices.
- Javier Albert Smet (@Ericsson/KTH, M.Sc. thesis), 2022
  - Runtime control for application failure prevention in resource-constrained devices.
- Eshita Mann (@University of Helsinki, M.Sc. thesis), 2023
  - Finite State Machines in Network Software.

- Bivek Pandey (@University of Helsinki, M.Sc. thesis), 2024
  - Development of a Digital Twin Architecture for Real-Time Mobile Network Signal Management.
- Wendy Arevalo (@EURECOM/Ericsson, M.Sc. thesis), 2024
  - VIO: Visualize Interactive Objects. Data Transformation Framework for Internet of Things Integration in eXtended Reality.
- Guanghan Wu (@University of Helsinki, M.Sc. thesis), 2024
  - Streamlining TinyML Lifecycle with Large Language Models: A Framework for Automation.
- Maximilian Abstreiter (@University of Helsinki, M.Sc. thesis), 2024
  - Performance Evaluation of Generative Transformer Model Inference on Edge Devices.
- Joonas Jakobson (@University of Helsinki, M.Sc. thesis), 2024
  - Assessing Openness and Practical Challenges of Machine Learning Pipeline Development in Open RAN.
- Nandhini Magudeswaran (@EURECOM, M.Sc. thesis), 2024
  - Context-Aware Mobile Assistant Using On-Device Sensors and Small Language Models.
- Praewpiraya Wiwatphonthana (@EURECOM, M.Sc. thesis), 2024
  - Machine Learning Assisted Dynamic Scheduling for Energy Efficient Serverless Cloud Workloads.
- Niccolò Zanieri (@EURECOM, M.Sc. thesis), 2025
  - Information, Entropy and Time in Quantum Systems
- Andrea Leone (@EURECOM / BubbleRAN, M.Sc. thesis), 2025
  - 5G/6G Network Digital Twin as a key enabler for RAN Intelligence
- Juha Torkko (@University of Helsinki, M.Sc. theis), 2025
  - 3D Reconstruction of Residential Spaces from Floor Plan and Interior Images

*(the expected graduation year and tentative title)

Supervision of Internships

- Mason El-Habr (@Princeton University, Summer Internship), 2020
- Sandra Hernandez Herrero (@Ericsson Research, Internship), 2021-2022
- Javier Albert Smet (@Ericsson Research, Internship), 2022
- Soham Bhar (@University of Helsinki, Summer Internship), 2023
- Maximilian Abstreiter (@University of Helsinki, Summer Internship), 2023
- Spanddhana Sara (@University of Helsinki, Summer Internship), 2023
- Bivek Pandey (@University of Helsinki, Summer Internship), 2023-2024
- Guanghan Wu (@University of Helsinki, Summer Internship), 2023
- Wendy Arevalo (EURECOM / Ericsson Research Finland, Internship), 2024
- Nandhini Magudeswaran (EURECOM, Internship), 2024
- Praewpiraya Wiwatphonthana (EURECOM / Ericsson Research Finland, Internship), 2024
- Andrea Leone (EURECOM / BubbleRAN, Internship), 2024-2025
- Jacem Haggui (EURECOM, Summer Internship), 2025
- Masný Vojtěch (EURECOM, Internship), 2025
- Msadek Mohamed Ali (EURECOM / BubbleRAN, Internship), 2025

8 Research Fundings and Grants

Personal & PI Grants

- **Marie Skłodowska-Curie Fellowship (FP7 ITN METRICS)** – Early-Stage Researcher at Ericsson Research / Aalto University. Fully funded PhD fellowship under the EU FP7 ITN METRICS project (Measurement for the Future Internet: Training and Research for Internet Communications Science).

Awarded as part of a €3.8M consortium, with my personal fellowship covering ~€250,000 (salary, mobility, research/training). [2014–2018]

- **European Space Agency (ESA) BIC Finland** – Incubation funding as CTO of Origami Cloudless AI (now NINJALABO Oy). Award: €80,000. [2023]
- **"Digital Twinning of Personal Area Networks for Optimized Sensing and Communication – 6G TwinPAN"** – Business Finland (6G Bridge). Principal Investigator (University of Helsinki). Award: €838,929 (€587,250 from Business Finland + €251,679 from University of Helsinki). [2023–2025] (The project was administratively registered under Prof. Sasu Tarkoma, Dean of the Faculty of Science at the University of Helsinki, in line with Business Finland requirements.)
- **CIFRE PhD Program** – Principal Investigator (EURECOM). Funded PhD project under my supervision through a government–industry program, focusing on *Enhancing AI Clusters with Holistic Monitoring Systems*. Award: €100,000. [2025]

Collaborative Projects

- **"open standard APplication Platform for carS and TrAnsportation vehiCLEs – APPSTACLE"** – ITEA4 consortium (€18.8M total). Work Package and Task Leader. [2016–2019]
- **"Neural Publish-Subscribe for 6G"** – Business Finland (6G Bridge) – with University of Oulu. Co-Principal Investigator (University of Helsinki). Award: €492,857 (€345,000 from Business Finland + €147,857 from University of Helsinki). [2023–2025]

9 Honors, Awards, and Recognitions

- Best Student Paper Award at the 45th IEEE International Conference on Distributed Computing Systems (ICDCS 2025). (Supervisor and co-author of the awarded work).
- Docent in Computer Science, University of Helsinki, Finland (Granted: January 2025)
    - Equivalent to *Associate Professor**, recognizing independent research and teaching qualifications. (Honorary title, not salaried)
- Top 2% of Scientists Worldwide: Included in the annual list compiled by Stanford University and Elsevier for both career-long [2021-2024] and single-year impact [2019-2023].
- Best Demo Award at the 41st IEEE International Conference on Distributed Computing Systems (ICDCS 2021).
- Scholarship for completing the doctoral degree in no more than eight full semesters. Grant issued by Aalto University, School of Electrical Engineering (2019).
- Scholarship for article published in high ranked magazine. Grant issued by Aalto University, School of Electrical Engineering (2018).
- *MARIE CURIE Fellowship* as part of the EU-funded project *Measurement for the Europe: Training and Research for Internet Communications Science* (METRICS) (2014-2018).
- IEEE Broadcast Technology Society 2013 Volunteer Award for outstanding efforts in leading to the success of the 2013 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting held on 4-7 June 2013 in West London, UK.

10 Scientific Community Service

- Host of Visiting Researchers:
    - Mostafa Kishani, Czech Technical University in Prague. Exploring collaboration opportunities in the context of Edge Computing and Data Storage for 6G (September 2024).
    - Weifan Zhang, Aalborg University. Exploring collaboration opportunities focused on performance optimization in Cloud and Edge environments, considering heterogenous (5G and WiFi) network access technologies (October 2024).

- Workshop organizer, Programme & General Chair: International Workshop on Networked AI Systems (https://netaisys.github.io/) co-located with ACM MobiSys 2023–2025 [2023-2025].
- Organizing Committee Member
  - European Wireless 2025 (Finance Chair)
  - ACM/IEEE Symposium on Edge Computing (SEC) 2025 (Poster / Demo Chair)
  - IEEE CLOUD – In conjunction IEEE World Congress on SERVICES. (Publicity Chair)
  - 21st ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys 2023). (Finance Chair)
  - FP7 Marie Curie Initial Training Network (ITN) METRICS industrial workshop organized and hosted by Ericsson (2016).
  - 2014 IEEE International Symposium on Broadband Multimedia Systems and Broadcasting.
- Sponsorship / Finance Chair:
  - European Wireless 2025
  - 21st ACM International Conference on Mobile Systems, Applications, and Services (ACM MobiSys 2023).
- Lead Guest Editor:
  - Elsevier Computer Networks, Special Issue "Evolution of Networked AI Systems: Trends, Challenges, and Opportunities" [link].
- Guest Editor:
  - MDPI Sensors, Special Issue on "5G/6G Networks for Wireless Communication and IoT" [link].
  - Elsevier Internet of Things, Special Issue on “Collective Intelligence for the Internet of Things” [link].
- TCP member/Reviewer (Conferences and Workshops): IEEE GLOBECOM 2015, IEEE NFV-SDN (2016-2023), IEEE ICC (2017, 2019, 2021), IEEE Global IoT Summit 2017, IEEE VTC-Fall 2018, IEEE VTC-Spring 2019, IEEE SMARTCOMP (2017-2019), IEEE CISS 2020, IEEE PICom (2020-2021, 2024 – Trackchair 2020-2021), EdgeSys workshop (2020-2024), IEEE Sensors and Smart cities workshop (2017, 2020-2022), IEEE INFOCOM 2023-2026, IEEE EDGE 2023-2024, Symposium on IoT (SIoT) and Latin America and Brazilian Congress on IoT (LABCIoT) 2023, International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt) 2023-2024, International Conference on the Internet of Things 2023, 1st International Workshop on Communication & Networking for TinyML-based Consumer Applications (INTERACT ’24), ICC 2024 Workshop - LLM6G on The Impact of Large Language Models on 6G Networks, IEEE NOMS 2024 Workshop - 1st IEEE Workshop on Generative AI for Network Management (GAIN 2024), ACM/IEEE Symposium on Edge Computing (SEC) 2024, IEEE CLOUD 2025, IEEE GLOBECOM Workshop - Impact of Multi-modal Large Language Models on 6G and Beyond (IMMLLM6G), The ACM Web Conference 2025 (Senior TPC Member).
- Journals’ Reviewer: IEEE Communications Standards Magazine, Journal of Grid Computing; IEEE Internet of Things Journal, IEEE Transactions on Software Engineering, IEEE Transactions on Cloud Computing, IEEE Access, IEEE Transactions on Mobile Computing, Transactions on Emerging Telecommunications Technologies (ETT), Future Generation Computing Systems (Elsevier), Simulation Modelling Practice and Theory (Elsevier), ACM Computing Surveys, International Journal of Grid and Utility Computing (IJGUC), Software: Practice and Experience (Wiley), Computer Communications (Elsevier), IEEE Transactions on Systems, Man, and Cybernetics: Systems, IEEE Open Journal of the Industrial Electronics Society, IEEE Transactions on Services Computing, IEEE Transactions on Systems, Man and Cybernetics: Systems. IEEE/ACM Transactions on Networking, ACM Transactions on Internet of Things, IEEE Sensors Journal, Elsevier Internet of Things; Engineering Cyber Physical Human Systems, ACM Transactions on Internet Technology, IEEE Transactions on Mobile Computing.
- Magazines’ Reviewer: IEEE Pervasive Computing Magazine, IEEE Network Magazine.

11 Research Output

- In the context of the ITEA 3 APPSTACLE project, original contributor of the nowadays Eclipse Kuksa project (https://www.eclipse.org/kuksa/)
- Original contributor of the Emulated IoT (ELIOT) Platform (https://github.com/Alliasd/ELIoT)

Patents

- Granted
  - Management of communication between M2M device and M2M server with finite state transitions created by the M2M device [US Patent US10869172B2].
  - Distributed computation orchestration for internet-of-things devices using CoAP and LWM2M protocols [US Patent US11765053B2].
  - Controlling Concurrent Execution of Perception Algorithms [US Patent US20250028591A1].
  - Resource provision for mobile entities [US Patent US12003511B2].
- +10 patent applications filed but pending (IoT orchestration, Cyber-physical systems, Digital Twin systems).

Media Coverage

- Medium [web]. January 2020. "TinyML Packs a Punch"
- Medium [web]. January 2020. "Running ML and AI on constraint IoT embedded devices — A game changer."
- The Internet of All Things [web]. December 2019. "Ericsson's proposal of Tiny-ML as a service"
- Increment.com [web]. April 2021. "Toward sustainable software engineering"
- Le Journal du Net (JDN) [web]. November 2015. "Docker vs Xen vs KVN : comparatif de la performance énergétique"
- DataCenter Knowledge [web]. November 2015. "Can Switching to App Containers Cut Data Center Power Consumption?".
- The Register [web]. November 2015. "How much do containers thrash VMs in power usage? Thiiis much".

12 Other Professional Activities and Academic Merits

Member on international peer review committees for funding application:

- Expert Reviewer, Panel CE25 - Software Sciences and Engineering - Multi-purpose Communication Networks, High-performance Infrastructures, French National Research Agency (ANR) (2023)
- Expert Reviewer, Call HORIZON-CL4-2025-03 – Digital, Industry and Space: AI, Data and Robotics, European Commission (2025)

Working Groups & Committees:

- Member, *GenAI Edge* Working Group, Edge AI Foundation (Since January 2025). Engaged in collaborative efforts to advance generative AI deployment strategies at the edge.
- Technical Program Committee (TPC) Member. Journey to Impact: Generative Edge AI, EdgeAI Foundation (2025). Reviewed and evaluated submissions and contributed to program organization for the international event featuring speakers from Meta, Qualcomm, Microsoft, Intel, EURECOM, and others.

Contribution to Standardization:

- In the context of Internet Engineering Task Force (IETF) and Internet Research Task Force (IRTF) – check publications list for more details about these activities.

Panelist:

- 7th Finland-China-Netherlands (FCN 2020) workshop on Edge Intelligence, IoT Systems and Analytics (Other Panelists: Prof. Sasu Tarkoma, Prof. Marijn Janssen, Prof. Pan Hui, Prof. Nic Lane).
- Summer Workshop of the EU Horizon 2020 A-WEAR project, 2022 (Reggio Calabria, Italy) – "Which career after the PhD? Experiences of former MSCA ESRs".
- European Autonomous Driving Network Forum 2023 (Dublin, Ireland) – "How practical the digital twin can help in automating the current/future networks".

Invited talks / keynotes:

- Toyota InfoTechnology Center, Mountain View, California, 2018. Talk title: “Vehicular Micro Cloud as a Virtual Edge Node”.
- Finland-China-Netherlands (FCN 2020) workshop on Edge Intelligence, IoT Systems and Analytics [online], September 2020. Talk title: “Orchestration of Machine Learning Inference at the Edge”.
- Business Finland “Vertical Industry Day – Foundation for Collaborations”, Helsinki, Finland. Talk title: “6GTwinPAN Overview”
- “IoT - connect them all” seminar series. Talk title “From Edge to Extreme Edge: Exploring the Dimensions of AI Inference in IoT”, Online [link], May 2024.
- “Beyond LLMs and Chatbots – the Journey to Generative AI at the Edge” event organized by the Edge AI Foundation. Talk title “Consolidating TinyML lifecycle with large language models: Reality, illusion, or opportunity?”, Online [link], October 2024.
- Aalto University CS-E4740 Federated Learning course. Guest Lecture title: “From the Edge to the Cloud: Exploring AI Inference (yes, including Generative AI) Across the Computing Continuum”, Online [link], April 2025.
- Qualcomm University Platforms Symposium 2025, May 2025. Talk title: “ALMAgen Autonomous Lifecycle Management via AI-Generation for the Edge”
- “JOURNEY TO IMPACT: Generative Edge AI” event organized by the Edge AI Foundation. Talk title “Language Models at the Edge: From Feasibility to Collaboration”, Online [link], May 2025.
- 3rd Future Wireless Terminal Technologies (FWTT) workshop, Lund, Sweden, June 2025. Talk title: “Generative AI at the Edge: From Inference Performance to Code Generation — A Reality Check for 6G Systems”.
- Summer School on Edge Artificial Intelligence, KTH Royal Institute of Technology, Stockholm, Sweden, September 2025. Talk title: “From Edge to Tiny: Reimagining AI in the Era of Generative and Embedded Intelligence”.
- MSCA ITN EXACT-6G Doctoral School, September 2025. Talk title: “Edge AI in the 6G Era: From Embedded Intelligence to Generative Models at the Edge”.
- Global Connect 2025, Paris, France, September 2025. Talk title: “Generative AI at the Edge: From Inference Performance to Code Generation – A Reality Check for Next-Generation Networks”.
- 2nd edition of the Training School on Networks and AI, October 2025. Talk title: “Edge AI in the 6G Era: From Embedded Intelligence to Generative Models at the Edge”.
- LongevIoT 2025 2nd International Workshop on Longevity in IoT Systems, Vienna, Austria, November 2025. Talk title: "From Deployment to Longevity: Can Agentic AI Sustain IoT Systems?”
- "Generative Edge AI Forum: Architectures, Agents & Apps” online event organized by the Edge AI Foundation. Talk title: "Four Forums Later: How GenAI at the Edge Has Evolved"

Tutorial presenter:

- “Lightweight Virtualization on IoT Edge Nodes: Unleash the Value of Container Technologies on Low-Power devices” tutorial presenter at the IEEE 4th World Forum on Internet of Things (WF-IoT), Singapore 2018.

Certifications:

- Leaders Core Curriculum (LCC). The Leaders Core Curriculum (LCC) is Ericsson’s foundation-level leadership development program that focuses on developing the core leadership capabilities needed to drive performance.

Commission Member for PhD Awarding:

- *Information Technology Cycle XXXV*, University Mediterranea of Reggio Calabria, April 2023.
- PhD Defense Opponent for Daria Alekseeva, Faculty of Information Technology and Communication Sciences, Tampere University, Finland, November 2024 [link].
- External PhD Thesis Pre-Evaluator for Gurtaj Singh, PhD candidate in Information Engineering, University Mediterranea of Reggio Calabria, Italy, February 2025.

Ambassador Activities:

- Representative for the University of Helsinki at the Mobile World Congress 2023 in Barcelona, Spain, specifically within the Finnish Pavilion.