

Naveed Anwar Bhatti

Assistant Professor · Computer Science (SBASSE), LUMS

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Google Scholar: <https://scholar.google.com.pk/citations?user=6ZB86uYAAAAJ&hl=en>

EDUCATION

November 2014 – Feb 2018

Ph.D. (Computer Science)

Politecnico di Milano, Milan, Italy

Ph.D. Thesis: *System Support for Transiently Powered Embedded Sensing Systems*

Advisor: Prof. Luca Mottola

The focus of my doctoral research is to enable transiently powered embedded sensing devices to make progress across periods of energy unavailability by developing software techniques. As energy availability is likely erratic in ambient harvesting or wireless energy transfer settings, applications may be unpredictably interrupted. To behave dependably, applications should resume from where they left as soon as energy is newly available.

August, 2011 – July 2013
(Gold Medal)



MS (Computer Science)

National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad

MS Thesis: *Long range RF-based ID (LRFID) System: Decoupling sensing and energy in sensor networks using energy transference*

Advisor: Dr. Affan Syed Co-Advisor: Dr. Muhammad Hamad Alizai (LUMS)

August, 2007 – July 2011

BS (Telecommunication)

National University of Computer and Emerging Sciences (FAST-NUCES), Islamabad

Final Year Project: *Internet controlled unmanned ground vehicle (iUGV)*

Advisor: Dr. Waseem Ikram

PROFESSIONAL EXPERIENCE

Total 8 years

July, 2023 - Current

Assistant Professor

Department of Computer Science, Syed Babar Ali School of Science and Engineering (SBASSE), LUMS, Lahore, Pakistan

Sep, 2019 – June 2023
(4 years)

Assistant Professor

Department of Cyber Security, Faculty of Computing and Artificial Intelligence (FCAI) Air University, Islamabad, Pakistan

April, 2019 – Sep, 2019
(6 months)

Senior Researcher

RISE SICS, Stockholm, Sweden

April, 2018 – March, 2019
(1 year)

ERCIM Alain Bensoussan Post-Doctoral Fellowship

RISE SICS, Stockholm, Sweden

ACADEMIC SERVICES

- 2026 ▪ Technical Program Committee (TPC) member of **ACM SenSys (Demo) 2026**
- 2025 ▪ Distinguished Reviewer **ACM Transaction on Internet of Things (TIoT)**
- 2025 ▪ Technical Program Committee (TPC) member of **ACM BuildSys Poster/Demo**
- 2022 and 2024 ▪ Reviewer **ACM Computing Survey**
- 2024 ▪ Technical Program Committee (TPC) member of **ACM ENSys 2024**
- 2021 ▪ Reviewer **Elsevier Computer and Security**
- 2019 ▪ Reviewer **ACM Computing Survey**
- 2019 ▪ Reviewer Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

- Technical Program Committee (TPC) member of **IEEE ICPADS'19** Conference
- Technical Program Committee (TPC) member of **IEEE ISIOT'19** Conference
- Technical Program Committee (TPC) member of **ACM/IEEE IoTDI'19** Poster/Demo
- Web and Social Chair of **ACM/IEEE IPSN 19** and **IPSN 18** conferences
- Reviewer Springer Swarm Intelligence
- Reviewer IET Electronic Letters
- Reviewer IEEE Transactions on Sensor Networks (**TOSN**)
- Reviewer International Journal of Distributed Sensor Networks (**IJDSEN**)
- Reviewer ACM Internetworks'15 Conference

FUNDED PROJECTS

Total funding worth 27 million PKR

- | | |
|------|---|
| 2026 | "A Multi-Layer Protocol for Bystander Privacy with Consent-Based Restoration" Faculty Initiative Fund (FIF), LUMS. Rs. 1.5/- Million. <ul style="list-style-type: none"> • Role: Principal Investigator (PI) • Awarded: April 2026 – March 2027 |
| 2024 | "IoT and LLMs as Catalysts for Change: A Pilot Case Study in Agriculture with LLMs" Faculty Initiative Fund (FIF), LUMS. Rs. 1/- Million. <ul style="list-style-type: none"> • Role: Principal Investigator (PI) • Awarded: July 2024 – June 2025 |
| 2024 | "Cleanify: AI-Based Waste management system using Battery-less IoT devices" NRPU Research Fund. Rs. 9.5/- Million. <ul style="list-style-type: none"> • Role: Principal Investigator (PI) • Awarded: April 2024 – August 2026 |
| 2021 | "SCYDES - Self Cyber Defense Evaluation System" NCCS Research Fund. Rs. 14.972/- Million. <ul style="list-style-type: none"> • Role: Principal Investigator (PI) • Awarded: Feb 2021 – Sep 2022 (Successfully Completed) |
| 2021 | "ReCyP:HER - Rethinking Cybersecurity in Pakistan Human factors' Essential Role" Erasmus+ Research Fund. <ul style="list-style-type: none"> • Role: Leader WP3 and WP7. • Awarded: Jan 2021 – Jan 2024 |

AWARDS & ACHIEVEMENTS

- | | |
|------|--|
| 2022 | <ul style="list-style-type: none"> ▪ Vice Chancellor Commendation Award (Air University) |
| 2021 | <ul style="list-style-type: none"> ▪ Best Teacher Award (Cyber Security Department, Air University) |
| 2018 | <ul style="list-style-type: none"> ▪ Recipient of a 12-month ERCIM Alain Bensoussan Postdoc fellowship (RISE- Stockholm) |
| 2017 | <ul style="list-style-type: none"> ▪ Best Ph.D. Forum Presentation award in IPSN 2016 |
| 2014 | <ul style="list-style-type: none"> ▪ Recipient of a Ph.D. grant from the Italian govt at Politecnico di Milano |
| 2013 | <ul style="list-style-type: none"> ▪ Recipient of the Gold Medal of MS (CS) graduating class of 2011 (at FAST-NUCES) |
| 2012 | <ul style="list-style-type: none"> ▪ Best Cloud Computing course project Issued by: Microsoft Research and FAST-NUCES Islamabad |
| 2011 | <ul style="list-style-type: none"> ▪ Best Final Year Project BS (Telecom) – Issued by: FAST-NUCES Islamabad |
| 2010 | <ul style="list-style-type: none"> ▪ Winner ROBOTHON (line following robot competition) Issued by: IEEE GIKI |

TEACHING

9 different courses taught, 2 of which were newly developed courses



2026, 2025 and 2024
2025, 2024 and 2023
2023

- Internet of Things (CS-677)
- Operating Systems (CS-370)
- Algorithms (CS-310)

Semester	Course Code and Title	Class Enrolment	Instructor Evaluation (Out of 5)	Course Evaluation (Out of 5)
Fall 2025	CS 370 – Operating Systems	295	4.64	4.65
Spring 2025	CS 677 – Internet of Things	21	5	5
Fall 2024	CS 370 – Operating Systems	219	4.07	4
Spring 2024	CS 677 – Internet of Things	19	4.76	4.74
Fall 2023	CS 370 – Operating Systems	86	4.11	4.16
Fall 2023	CS 310 - Algorithms	110	4.36	3.92



2023, 2021 and 2020	▪ Object Oriented Programming (CS-210)	
2022	▪ Embedded Systems Security (ESS) (CyS-367)	(New Course Developed)
2022	▪ Critical Infrastructure Security (CyS-697)	
2022 and 2021	▪ Research Methodology (CS-692)	
2021	▪ Cyber Security Tool Development (CyS-353)	(New Course Developed)
2021 and 2020	▪ Embedded System (CS-602)	
2020 and 2019	▪ Data Structures (CS-210)	
2020 and 2019	▪ Object Oriented Programming (CS-200)	
2020	▪ Drone and Autonomous Vehicle Security (CS-634)	(New Course Developed)
2019	▪ Introduction to Computing (CS-156)	

PUBLICATIONS

32 peer-reviewed publications (Total Citations: 1005 as per Google Scholar)

Summary Statistics:

- Total **12** CORE RANK **A*** / **A** Conference Publications (7 **A*** and 5 **A**)
- Post LUMS **5** CORE RANK **A*** / **A** Conference Publications (4 **A*** and 1 **A**)
- Total **10** SJR RANK **Q1** / **Q2** Journal Publications (5 **Q1** and 5 **Q2**)
- Post LUMS **1** SJR RANK **Q1** Journal Publication

2026

- CONFERENCE ▪ Muhammad Mubbashar Baig, Umer Irfan, Muhammad Tahir, Muhammad Ahad, **Naveed Anwar Bhatti**. “**Cleanify: The Smart Batteryless Waste Management System**”, **In Review**, 2026

- CONFERENCE ▪ Mohammad Shaharyar Ahsan, Areeba Shahzad Shaikh, Maham Zahid, Umer Irfan, Maryam Mustafa, **Naveed Anwar Bhatti**, Muhammad Hamad Alizai. “**LLM-Enhanced Wearables for Comprehensible Health Guidance in LMICs**.” **In Review**, 2026

- CONFERENCE ▪ Muhammad Saad Ali, Daanish Uddin Khan, Laiba Intizar Ahmed, Umer Irfan, Maryam Mustafa, **Naveed Anwar Bhatti**, Muhammad Hamad Alizai. “**Kissan-Dost: Bridging the Last Mile in Smallholder Precision Agriculture with Conversational IoT**”, **In Review**, 2026

- A*** CONFERENCE ▪ Yahya Khwaja, Eman Nabeel, Sana Hamayuan, Eruj, Kathrina, Muhammad Hamad Alizai, **Naveed Anwar Bhatti**. “**Now You See Me, Now You Don't: Consent-Driven Privacy for Smart Glasses**”, IEEE PerCom, 2026, CORE RANK

- A*** CONFERENCE ▪ Abdur-Rahman Ibrahim Sayyid-Ali, Daanish Uddin Khan, and Naveed Anwar Bhatti. “**Are LLM Web Search Engines Sustainable? A Web-Measurement Study of Real-Time Fetching**.” ACM WebConf (WWW), 2026.

- A*** CONFERENCE ▪ Yaha Khawaja, Shirin Rehman, Alexander Ponticello, Divyanshu Bhardwaj, Katharina Krombholz, Muhammad Hamad Alizai, and Naveed Anwar Bhatti. “**See Me If You Can: A Multi-Layer Protocol for Bystander Privacy with Consent-Based Restoration**”, ACM CHI 2026.

2025

- A*** CONFERENCE ▪ Abdur Rehman Sayyid-Ali, Abdul Rafay, Muhammad Abdullah Soomro, Muhammad Hamad Alizai, **Naveed Anwar Bhatti**. “**CheckMate: LLM-Powered Approximate Intermittent Computing**”. ACM SenSys, 2025.

- A** CONFERENCE ▪ Ahmed Najeeb, Muhammad Rafay, Hamad Alizai, and **Naveed Anwar Bhatti**. “**Glitch in Time: Exploiting Temporal Misalignment of IMU For Eavesdropping**.” ACM AsiaCCS, 2025.

- CONFERENCE ▪ Muhammad Sangeen, Naveed Anwar Bhatti, Kashif Kifayat. “**PortScout: A Communication Flow-Based Approach to Detect Port Scanning Evasion Attacks**”. IEEE ICC, 2025.

- B** CONFERENCE ▪ Abdullah Soomro, Naveed Anwar Bhatti, Muhammad Hamad Alizai. “**Approxyf: Automating Energy-Accuracy Trade-offs in Batteryless IoT Devices**”. IEEE WCNC, 2025.

- B** CONFERENCE ▪ SA Khowaja, IH Lee, P Khuwaja, **Naveed Bhatti**, K Singh, K Dev. “**FLEXFL: Flexible Federated Learning for Customized Network Architectures in 6G**” . IEEE WCNC, 2025.

2024

 JOURNAL

- Chaudhry, Hassan Habib, Ramish Majeed Raja, Muhammad Azmeer Zahid, Nauman Zaffar, Muhammad Hamad Alizai, and Naveed Anwar Bhatti. "**Usage-centered, efficient, and sustainable: an IoT-driven transformation of water heaters.**" Data-Centric Engineering (DCE), 2024. (Impact Factor = 3)

2023

CONFERENCE

- Chaudhry, Hassan Habib, Ramish Majeed Raja, Muhammad Hamad Alizai, Nauman Zaffar, and Naveed Anwar Bhatti. "**From Waste to Watts: A Self-Sustaining Water Heating System Powered by a Thermoelectric Generator.**" In Proceedings of the 10th BuildSys. 2023.

CONFERENCE

- Farhan Asghar, Tehreem Fatima, Junaid Haroon Siddiqui, Naveed Anwar Bhatti, Muhammad Hamad Alizai. "**Shepard: Dynamic Placement of Microservices in the Edge-Cloud Continuum.**" International Conference on Mobile and Ubiquitous Systems (MobiQuitous)

 JOURNAL

- Sangeen, Muhammad, Naveed Anwar Bhatti, Kashif Kifayat, Abeer Abdullah Alsadhan, and Haoda Wang. "**Blind-trust: Raising awareness of the dangers of using unsecured public Wi-Fi networks.**" Computer Communications, April 2023. (Impact Factor = 6)

 JOURNAL

- Javed, Kashif, Naveed Anwar Bhatti, and Mohammad Imran. "**MOPTIC-SM: Sleep mode-enabled multi-optimized intermittent computing for transiently powered systems.**" Journal of Systems Architecture, April 2023. (Impact Factor = 4.5)

2021

 JOURNAL

- Dileep Kumar Soother, Sanaullah Mehran Ujjan, Kapal Dev, Sunder Ali Khowaja, Naveed Anwar Bhatti, Tanweer Hussain" **Towards soft real-time fault diagnosis for edge devices in industrial IoT using deep domain adaptation training strategy**". Elsevier Journal of Parallel and Distributed Computing, November 2021. (Impact Factor = 3.734)

 JOURNAL

- Ali Akbar Shah, Naveed Anwar Bhatti, Kapal Dev, B.S Chowdhry, "**MUHAFIZ: IoT-based Track Recording Vehicle for the Damage Analysis of the Railway Track**". IEEE Internal of Things Journal (IoTJ), March 2021. (Impact Factor = 9.9)

 JOURNAL

- Saad Ahmed, Naveed Anwar Bhatti, Martina Brachmann, Muhammad Hamad Alizai "**A Survey on Program-state Retention for Transiently powered Systems**", Journal of Systems Architecture, Elsevier, Jan 2021. (Impact Factor = 2.552)

2020

 CONFERENCE

- Afanasov, Mikhail, Naveed Anwar Bhatti, Dennis Campagna et al. "**Battery-less zero-maintenance embedded sensing at the mithraeum of circus maximus.**" In Proceedings of the 18th Conference on Embedded Networked Sensor Systems (SenSys), November 2020.

 TRANSACTION

- Saad Ahmed, Naveed Anwar Bhatti, Muhammad Hamad Alizai, Junaid Haroon, Luca Mottola: "**Fast and Energy-efficient State Checkpointing for Intermittent Computing**", ACM Transactions on Embedded Computing Systems (TECS), 2020, (Impact Factor = 1.72).

 TRANSACTION

- Saad Ahmed, Abu Bakar, Naveed Anwar Bhatti, Muhammad Hamad Alizai, Junaid Haroon Siddiqui, Luca Mottola: "**Demystifying Energy Consumption Dynamics in Transiently powered Computers**", ACM Transactions on Embedded Computing Systems (TECS), 2020, (Impact Factor = 1.72).

 JOURNAL

- Sundus Zehra, Rehan Qureshi, Kapal Dev, Saleem Shahid, Naveed Anwar Bhatti. "**Comparative Analysis of Bio-Inspired Algorithms for Underwater Wireless Sensor Networks**", Wireless Personal Communications, Springer, May 2020. (Impact Factor = 1.2)

2019 - 2014

 CONFERENCE

- Saad Ahmed, Abu Bakar, Naveed Anwar Bhatti, Muhammad Hamad Alizai, Junaid Haroon Siddiqui and Luca Mottola, "**The Betrayal of Constant Power × Time: Finding the Missing Joules of Transiently Powered Computer**", Languages, Compilers, and Tools for Embedded Systems 2019 (LCTES '19), June 2019, Arizona (USA).

- A** CONFERENCE
 ▪ Saad Ahmed, Naveed Anwar Bhatti, Muhammad Hamad Alizai, Junaid Haroon Siddiqui and Luca Mottola, "Efficient Intermittent Computing with Differential Checkpointing", Languages, Compilers, and Tools for Embedded Systems 2019 (LCTES '19), June 2019, Arizona (USA).
- POSTER
 ▪ Saad Ahmed, MH Alizai, JH Siddiqui, Naveed Anwar Bhatti, L Mottola, "Towards smaller checkpoints for better intermittent computing", ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), April 2018, Porto (Portugal).
- A*** CONFERENCE
 ▪ Naveed Anwar Bhatti and Luca Mottola, "HarvOS: Efficient Code Instrumentation for Transiently-powered Embedded Devices", ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN), April 2017, Pittsburgh (USA).
- POSTER
 ▪ Naveed Anwar Bhatti and Luca Mottola "Compiler-assisted Automatic Checkpointing for Transiently powered Embedded Devices", EWSN, Feb 2017, Uppsala (Sweden).
- POSTER
 ▪ Naveed Anwar Bhatti, "Back to The Future: Sustainable Transiently Powered Embedded Systems", IPSN, April 2016, Vienna (Austria). **Best PhD Forum Presentation**
- Q2** TRANSACTION
 ▪ Naveed Anwar Bhatti, Hamad Alizai, Affan A.Syed and Luca Mottola, "Energy Harvesting and Wireless Transfer in Sensor Network Applications: Concepts and Experiences", ACM Transactions on Sensor Networks (TOSN), April 2016. (Impact Factor = 2.7).
- A** CONFERENCE
 ▪ Naveed Anwar Bhatti, Luca Mottola, "Efficient State Retention for Transiently powered Embedded Sensing", International Conference on Embedded Wireless Systems and Networks (EWSN 2016), Feb 2016, Graz (Austria).
- Q2** JOURNAL
 ▪ Naveed Anwar Bhatti, Affan A.Syed and Hamad Alizai, "Laser based Energy Distribution Architecture for Decoupling Energy and Sensing Planes in WSN", International Journal of Distributed Sensor Networks (IJDSN), 2015.
- B** CONFERENCE
 ▪ Osama Haq, Zainab Abaid, Naveed Anwar Bhatti, Zaafar Ahmed and Affan A.Syed, "SDN-inspired, Real-time Botnet Detection and Flow-blocking at ISP and Enterprise-level", IEEE International Conference on Communications (ICC 2015), June 2015, London (UK)
- A*** CONFERENCE
 ▪ Naveed Anwar Bhatti, Affan A.Syed and Hamad Alizai, "Sensors with Lasers: Building a WSN Power Grid", The 13th ACM/IEEE Conference on Information Processing in Sensor Networks (IPSN), April 2014, Berlin (Germany).

TALKS AND WORKSHOPS

- | | Other than Conference Talks |
|-------------------------------|---|
| 2 nd January, 2023 | ▪ Cyber Security and Social Engineering Influence (National Cyber Security Academy)
Cyber Security Awareness Training. |
| 15 th April, 2022 | ▪ Emulating Risks Associated with Public Wi-Fi (University of Saarland, Germany)
Erasmus Funded Research Project Talk. |
| 18 th April, 2018 | ▪ Transiently-powered Computing Tutorials (11 th Cyberphysical Systems week (CPSWEEK) held in Porto, Portugal)
Tutorial on transiently-powered computing has been presented. |
| 15 th April, 2017 | ▪ Transiently-powered Embedded Systems (RISE-SICS, Stockholm, Sweden)
Gave talk on Transiently-powered Embedded Systems: challenges and applications |
| 25 th July, 2016 | ▪ Internet of things workshop (ComSys lab, RWTH Aachen, Germany)
Gave talk on Internet of Things Workshop with a focus on transiently-powered sensing systems |
| 28 th May , 2015 | ▪ Aerial drone showcase at Polifactory (Politecnico di Milano - Campus Bovisa)
Conducted a workshop to show the potential of drones as tools to enable advanced mobile sensing. |
| 8 th June, 2015 | ▪ Interactive lecture on embedded sensing (Politecnico di Milano - Campus Bovisa)
Gave talk on Embedded sensing, which is the technology behind the internet of things, cyberphysical systems, and wireless sensor networks. |

STUDENT MENTORSHIP

Summary Statistics:

- Current Ph.D. mentees: **1**
- M.S. students supervised: **4**
- B.S. students supervised: **34**

Ph.D. Researchers



2025

- **Muhammad Tahir.**
Sustainable Internet of Things - **In-Progress**

M.Sc. Graduates



2023

- **Asra Masood**
FireFlow: Firewall State Synchronization using BGP Flowspe – **Completed**



2022

- **Kashif Javed.**
Towards a Sleep Mode-Enabled Interleaved Multi-Approximate Intermittent – **Completed**



2019

- **Dragoş Perju.**
Applying Memoizatititon as an Approximation Technique for Transiently-powered Embedded Systems – **Completed**



2019

- **Erik Henricus Wouters.**
Securing Intermittent Computing – **Completed**

Undergraduate Projects



LUMS

2026

- **Yaha Khawaja, Shirin Rehman, Eman Nabeel, Sana Humayun, and Eruj Javed.**
See Me If You Can: A Multi-Layer Protocol for Bystander Privacy with Consent-Based Restoration – **Completed**



LUMS

2026

- **Muhammad Taimor, Amna Iftikhar, Khuzaima bin Gulzar, and Muneeb ur Rehman.**
Cleanify: Batteryless Waste Management System – **Completed**



LUMS

2025

- **Abdur-Rahman Ibrahim Sayyid-Ali.**
CheckMate: LLM-Powered Approximate Intermittent Computing – **Completed**



LUMS

2025

- **Mohammad Shaharyar Ahsan, Areeba Shahzad Shaikh, and Maham Zahid.**
Mohammad Shaharyar Ahsan, Areeba Shahzad Shaikh, & Maham Zahid – **Completed**



LUMS

2025

- **Muhammad Saad Ali, Daanish U. Khan, and Laiba Intizar Ahmad.**
Kissan-Dost: Bridging the Last Mile in Smallholder Precision Agriculture with Conversational IoT – **Completed**



LUMS

2024

- **Muhammad Abdullah Soomro.**
Approxy: Automating Energy-Accuracy Trade-offs in Batteryless IoT Devices – **Completed**



LUMS

2024

- **Ahmed Najeeb and Abdul Rafay.**
Glitch in Time: Exploiting Temporal Misalignment of IMU for Eavesdropping – **Completed**



2023

- **Ali Taki Wajid, Tooba Saleem, Sadin Ashraf.**
RAIDWARE: A Command-and-Control Framework – **Completed**



2022

- **Abdullah Khalid.**
VOICE SABER: Attacking Virtual Voice Assistants using Laser – **Completed**



2022

- **Afeefa Ahmed and Asima Tahir.**
Responsify: PPID Spoofing and Automated Incident Response – **Completed**



	2021	<ul style="list-style-type: none"> Muhammad Osama, Nukhba Zafar, and Awais Akhtar. Hacking Air Gapped System using an Exploit Module – Completed
	2021	<ul style="list-style-type: none"> Arooba Sehar and Kanwal Naz. IoT-based Sustainable Health Monitoring of Livestock – Completed
	2020	<ul style="list-style-type: none"> Minahil Ejaz and Iqra Bibi. Sustainable Water Flow Monitoring: System Design – Completed
	2020	<ul style="list-style-type: none"> Aizaz Ali and Zubair Bin Hamid. Smart Parking System for Air University: Design & Deployment – Completed

Independent Study / Directed Research



- Abeer Aamir
- Khawaja Gul Muhammed
- Laiba Intizar Ahmad
- Abdur-Rahman Ibrahim Sayyid-Ali
- Mohammad Umar Mazhar
- Talha Hassan Ul Haq
- Asad Riaz
- Syed Ibrahim Bin Hassan

Department and University Service



2024 - Present Convener Graduate Program Committee (Computer Science)



2020 – 2022 Advisor MS System Security



2020 – 2021 Department Examination Head



2021 Convener Students Week

REFERENCES

- **Prof. Luca Mottola**
luca.mottola@polimi.it (luca.mottola@it.uu.se)
Professor
Dipartimento di Elettronica, Informazione e Bioingegneria
Politecnico di Milano, Italy
- **Dr. Martina Brachmann**
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Senior Researcher
Ericsson Research AB
Stockholm, Sweden
- **Prof. Thiendo Voigt**
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Professor
Department of Electrical Engineering, Uppsala University
Uppsala, Sweden
- **Prof. Katharina Krombholz**
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Professor
CISPA, Germany