

Curriculum vitae, Derawi Mohammad

PERSONAL INFORMATION

Family name, First name:	Derawi, Mohammad		
Current Position/Title	Professor, PhD		
Date of birth:	30.12.1985	Age: 37	Gender: Male
Nationality:	Denmark		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	https://scholar.google.no/citations?user=JKuBzrgAAAAJ&hl=en		
URL for personal website:	https://www.ntnu.no/ansatte/mohammad.derawi		
Selected personal skills	Communication, management, negotiation and persuasion, commercial awareness, teamwork, problem solving, trust, ability to work under pressure, persistence and motivation.		
Languages	Scandinavian (Danish, Norwegian, Swedish), English, Arabic, German, Czech		

EDUCATION

	Name of faculty/department, name of university/institution, country
2009-2012	Ph.D. in Information Security, Department of Information Security, Gjøvik University College (Currently NTNU), Norway
2004-2008	M.Sc. Eng. In Informatics, DTU Compute, Technical University of Denmark, Denmark

POSITIONS (academic, business, industry, public sector, national or international organizations)

Current Position/Roles

	Job title/name of employer/country
2022 -	Scientific Director of the IoT-Lab, NTNU IES, Norway
2020 -	Head of Research Group, Smart Wireless Systems, NTNU IES, Norway
2015 -	Professor in Smart Systems and Wireless Technologies, Department of IES, NTNU.

Previous positions held (Academic list only)

	Job title/name of employer/country
2015-2022	Professor in Cyber Systems, The Norwegian Defence University, Jørstadmoen, Norway
2013-2022	CEO of Derawi AS (Ltd), Hardware/Software Consultant and Outsourcing company.

2013-2015	Associate Professor, Smart Wireless Systems, Gjøvik University College, Norway
2012-2013	Assistant Professor, Norwegian Information Security Lab., Gjøvik University College, Norway

FELLOWSHIPS, AWARDS AND PRIZES

	Name of institution/country
2017	Quality in Education Award ("Studiekvalitetsprisen"), NTNU, 2017
2016	Youngest Professor of Norway, NTNU.
2009	Youngest MSc. Engineer of Denmark, DTU.
2011	IEEE Certificate of Appreciation, IEEE Young Professionals Volunteer
2008 -	Several best paper awards throughout the active years of research (IEEE, ACM, SPRINGER)

MOBILITY

Research stays abroad

	Name of faculty/department/centre, name of university/institution/country
2020	UPCE, University of Pardubice, Czech Republic (1 month)
2012 -	VUT, Brno University of Technology (6 months in total over the years from 2012)
2009	Centre for Advanced Security Research, Darmstadt, Germany (1 year)

Stays abroad related to positions outside academia

	Name of host (business, industry, public sector, national or international organization/country)
2017 -	CERN (European Council for Nuclear Research), International organization, Geneva, Switzerland
2016 -	MICRORISC Ltd, Industry Sector, International organization making IoT Sensor, Czech Republic.

PROJECT MANAGEMENT EXPERIENCE

Projects funded by Research Council of Norway, international research programmes, private or public organizations

	Project and role, funding from
2021-2025	Project Partner, TransformAr - EUR 13.00 million. - EU Horizon 2020
2021-2024	Project Partner, ALAMEDA - EUR 7.00 million. - EU-Horizon RIA 2020.

2020-2023	Project Coordinator, Radiation-tolerant Internet-of-Things (IoT) Sensor Systems – NOK 3.00 million. Funded by CERN/NTNU.
2019-2020	Project Partner, Vertigo E-Health Glasses - NOK 1.00 million. Funded by Regional Research Fund (RFF).
2019-2020	Project Partner, SMART (City) Gjøvik - Tjenesteinnovasjon og gevinstrealisering av anskaffet teknologi - NOK 1.00 million. Funded by Oppland County Governor
2019-2020	Project Partner, IoTera, NOK 0.50 million, Funded by the EEAGRANTS
2018-2020	Project Coordinator, "SecCommNet" - NOK 2.8 million. Financed by NFR/RFF.
2017-2017	Project Coordinator, Ambulance Drone Model- NOK 0.25 million. Funded by NTNU (World-wide recognition).
2016-2017	Project Coordinator, Wireless IoT - Smart Trash - NOK 0.75 million. Funded by “Green Future” – Oppland State.
2016	Project Coordinator, IQRF IoT - NOK 0.10 million. Funded by NTNU.
2016-2019	Project Coordinator - Digital Mobile Radio (WP2P) - NOK 8.00 million. Funded by Regional Research Fund (RFF).
2015-2016	Project Partner, MObility for Development of UniversitieS (MODUS), NOK 0.50 million, Funded by the EEAGRANTS
2013-2016	Project Coordinator, Wireless Electrocardiogram - NOK 2.10 million. Funded by Innovation Norway.
2013-2014	Project Partner, Securing Hand Weapon with Electronic Systems– NOK 0.60 million. Funded by Regional Research Fund (RFF).
2008-2011	Project Member, Trusted Revocable Biometric Identities (TURBINE) - EUR 6.30 million. Funded by European Union - Seventh Framework Programme (FP7).
2009	Project Coordinator, Biometric Gait Recognition Field Testing - NOK 0.50 million. Funded by the Regional Research Fund (RFF).

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

	No. of	Master's students/ Ph.D./Postdocs	Name of faculty/department/centre, name of university/institution/country
2019 -	4	Post. Docs	Department of Electronics Systems, NTNU
2012 -	2+6	PhDs	Department of Electronics Systems, NTNU. Acting as co-supervisor for 6.
2009 -	35+	Freshly graduated (BSc. +MSc.)	GUC, CERN NTNU Students and abroad

TEACHING ACTIVITIES

2009-2023	Teaching position – topic, name of university/institution/country
	Engineering Role, Computer Engineering, Digital Fundamentals (Digital Logic), Microcontrollers (including wireless), Computer Architecture, Computer Technology, C-Programming (including Assembly), Biometric Authentication, Research Project Planning, Introduction to Java Programming, Web Programming – PHP Language, Web Design (CSS, HTML), Web Project, Part I/III

ORGANISATION OF MEETINGS

2012-2023	Role and name of event/number of participants/countries
	Chairman of the Norwegian Biometrics Laboratory Workshop, ~100 participants, Norway.
	Session Chair at the Norwegian Information Security Conference (NISK) in Biometrics and Forensics, ~60 participants, Norway
	Organizing Committee at the 3rd International Workshop on Security and Communication Networks (IWSCN), ~100 participants, Norway

INSTITUTIONAL RESPONSIBILITIES (if applicable)

Member of a committee/graduate student advisor etc.

2012-2023	Name of university/institution/country
	Member of the Innova.
	Appointed member of IEEE Young Professionals, International

COMMISSIONS OF TRUST IN ACADEMIC, PUBLIC OR PRIVATE ORGANISATIONS

Scientific advisory board/review board/review panel member/editorial board/scientific advisory board/reviewer/scientific evaluation/etc.

2012-2023	Name of university/institution/country – and role
	Elsevier journal on Neurocomputing, article reviewer
	Elsevier journal on Expert Systems with Applications, article reviewer
	Elsevier journal on Computers & Security, article reviewer • IEEE Transactions on Information Security, article reviewer
	IEEE Transactions on Information Forensics and Security, article reviewer
	IEEE International Symposium on Circuits and Systems, article reviewer

Track record

Selected highly qualified journals, book chapters and conference-papers. Otherwise, I hold an estimate of 60, whereas 48 are public and 12 non-public from 2009 - 2023.

1. **M. Derawi**, Y. Dalveren, and F.A. Cheikh, Internet-of-Things-Based Smart Transportation Systems for Safer Roads, IEEE 6th World Forum on Internet of Things, New Orleans, LA, USA, 2020.
2. **Derawi, Mohammad**; Alaya Cheikh, Faouzi, Bouzidi, Mohammed. (2019) Biometric Wireless Systems in IoT and Mobile Clouds in IEEE Mobile Cloud, 2019
3. **Derawi, Mohammad**; Bours, Patrick; Chen, Ray. (2017) Wireless Acoustic Ear Recognition in Biometric Security and Privacy Opportunities & Challenges in The Big Data Era, 2017.
4. **Derawi, M.** and Zhang, H. "Internet of Things in Real-Life, A Great Understanding", at International Conference on Wireless Communication, Networking and Applications (WCNA2014), Dec 2014, Springer (LNEE) 2014.
5. **Derawi, M.**, Voitenko, I. "Wireless Chest-based ECG Biometrics", 9th International Conference on Embedded and Multimedia Computing (EMC 2014), 25-27 August 2014, Ostrava, Czech Republic. Lecture Notes in Electrical Engineering (LNEE) - Springer 2014.
6. Voitenko, I., **Derawi, M.** "Reliable Cross-layer Data Transport Protocol for IoT MANETs ", IEEE 11th International Conference on Mobile Ad Hoc and Sensor Systems - MASS 2014, 28-30 October 2014, Philadelphia, Pennsylvania, USA. IEEE conference proceedings 2014.
7. **Derawi, M.**, Voitenko, I., Endrerud, P. E. "Real-time Wireless ECG with Mobile Devices", Proceedings of International Conference on Medical Biometrics, ICMB 2014, 30 May - 1 June 2014, Shenzhen, Guangdong, China. IEEE conference proceedings 2014, p. 151-156.
8. **Derawi, M.**, McCallum, S., Witte, H., Bours, P. "Biometric Access Control using Near Field Communication (NFC) and Smart Phones" 5th IAPR International Conference on Biometrics (ICB), March 29 - April 1, 2012, New Delhi, India. IEEE conference proceedings 2012 p. 490-497.
9. **Derawi, M.**, Yang, B. and Busch, C. "Fingerprint Recognition with Embedded Cameras on Mobile Phones over Bluetooth", Journal of Security and Communication Networks, Volume 5, Issue 13, 2012, p.10-21
10. **Derawi, M.**, Bours, P., Holien, K. "Improved Cycle Detection for Accelerometer Based Gait Authentication – Wireless transmission" Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP), 2010 Sixth International Conference on - 15-17 Oct. 2010. IEEE Computer Society 2010, p. 312-317.
11. **Derawi, M.**, Nickel, C., Bours, P., Busch, C. "Unobtrusive User-Authentication on Mobile Phones Using Biometric Gait Recognition" Sixth International Conference on Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP), 2010, Darmstadt, Germany, 2010. IEEE Computer Society 2010 p. 306-311