

Curriculum vitae with track record

Personal Information

Family name, First name : Raghavendra Ramachandra
Date of birth : 18.04.1977
Sex : Male
Nationality : Norway
Researcher unique identifier(s)
(ORCID, ResearcherID, etc.) : 0000-0003-0484-3956
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Education

2010, PhD : University of Mysore, India and Institut TELECOM; TELECOM SudParis, France.
2004, Master : Visvesvaraya Technological University, India

Current and Previous Positions

Till Date - 2017 : Professor, Norwegian University of Science and Technology (NTNU), Norway
2012 - 2017 : Senior Researcher, Norwegian University of Science and Technology (NTNU), Norway
2010 - 2012 : PostDoc, Italian Institute of Technology (IIT), Italy
2004 - 2007 : Assoc. Prof, Visvesvaraya Technological University, India
2000 - 2002 : Cusat Solutions, India

Fellowships, Awards and Prizes

2019 : IAPR/IEEE, Best Paper Award - IWBF-2019
2019 : IEEE Biometrics Council, Best Paper Award - ISBA-2019
2018,2022,2023 : IAPR, Best Paper Award - CVIP
2016 : ACM, Best Paper Award - SIN-2016
2015 : IEEE, Best paper Award - ISBC-2015
2009 : IAPR/IEEE, Full scholarship - Biometrics Summer School

Supervision of graduate students and research fellows

2014-2022 : 12 PhD Students, NTNU, Norway.
2017-2022 : 5 Post-Docs, NTNU, Norway.
2012-2019 : 17 Master Thesis, NTNU, Norway.
2012-2019 : 11 Bachelor Thesis, NTNU, Norway.
2007-2010 : 16 Master Thesis, University of Mysore, India.
2004-2007 : 18 Bachelor Thesis, Visvesvaraya Technological University, India.

Teaching Activities

2017-Till Date : Prof. - Computational Forensics, Specialization course, NTNU, Norway
2012-2018 : Co-Tutor - Biometrics, NTNU, Norway
2004-2007 : Assoc. Prof - Computer security, Computer communication, Signals and Systems, Digital Signal Processing, DSP Architecture, Digital Electronics, Digital Signal Processing, Embedded Systems, Programming in C/C++, Microprocessor, Visvesvaraya Technological University, India

Project Management Experience

2026	Project: Secure Anti Fraud Excellence (SAFE) Center
2031	Funding agency : Banking partners in Norway; Roles : PI and Director.
2028	Project: Advancing Smart City Security and Resilience through AI-driven Digital Forensics
2024	Funding agency : UTFORSK, HR-Dir, Norway; Roles : Co-PI, Work package leader and technical supervisor/contributor.
2026	Project: Secure privacy preserving Authentication using facial biometrics to protect your identity (SALT)
2022	Funding agency : Research Council of Norway (RCN), Norway; Roles : Co-PI, Management - Contact point for NTNU, Work package leader and technical supervisor/contributor.
2024	Project: TRustworthy Authentication by mitigatiNg bias in face biometricS (TRNS)
2022	Funding agency : RFF, Norway; Roles : PI, Management - Contact point for NTNU, Work package leader and technical supervisor/contributor.
2025	Project: image Manipulation Attack Resolving Solutions (iMARS)
2020	Funding agency : HORIZON-CL3-2022-BM-01, EU; Roles : Work package leader and technical supervisor/contributor.
2025	Project: Interoperable applications suite to enhance European identity and document Security and fraud detection (EINSTEIN)
2020	Funding agency : HORIZON-CL3-2022-BM-01, EU;; Roles : Work package contributor and technical supervisor/contributor.
2025	Project: Optimizing balance between high security and usability (OFFPAD)
2021	Funding agency : Research Council of Norway (RCN), Norway; Roles : PI, Management - Contact point for NTNU, Work package leader and technical supervisor/contributor.
2021	Project : Biometric Authentication with Timeless Learner (BATL)
2017	Funding agency : IARPA-BAA-THOR, United States of America (USA); Roles : Management - Contact point for NTNU, Work package leader and technical supervisor/contributor.
2021	Project : State Of The Art of Morph Detection (SOTAMD)
2019	Funding agency :ISFB-2018-AG-IBA-MORP, European Union Commission; Roles : Work package leader and technical supervisor/contributor.
2021	Project : SMart mobILity at the European land borders (SMILE)
2017	Funding agency : H2020-SEC-2016-2017-1, RIA, European Union Commission; Roles : Technical contributor.
2021	Project : Secure Access Control Over Wide Area Networks (SWAN)
2015	Funding agency : Research Council of Norway (RCN), Norway; Roles : Co-PI, Project Management and technical supervisor/contributor for individual tasks.
2017	Project : Contact-less Multi-modal Finger Based Biometric Sensor
2016	Funding agency : Center for Cyber and Information Security (CCIS), Norway; Roles : Principal Investigator and technical supervisor/contributor for individual tasks.

2018	Project : 3D face mask attack detection
2017	Funding agency : Center for Cyber and Information Security (CCIS), Norway; Roles : Principal Investigator and technical supervisor/contributor for individual tasks.
2016	Project : Smartphone Based Eye Biometrics (SBEB)
2013	Funding agency : Safran Identity and Security, France; Roles : Management and technical contributions for individual tasks.
2015	Project : Large-scale Face Biometrics (LFB)
2014	Funding agency : Norwegian Directorate of Immigration (UDI) and Norwegian ID Center (NID), Norway; Roles : Principal Investigator and technical contributor to provide secure face solutions for immigration.
2016	Project : Fast and Trustworthy Identity Delivery and Check with ePassports leveraging Traveller Privacy (FIDELITY)
2012	Funding agency : European Framework - FP7 (European Union); Roles : Management - contact point for NTNU-Gjøvik, Work package leader and technical contributor.

Organisation of Scientific Meetings

- 2015-2025 : Program Chair, Area Chair, Session Chair, WACV-2025, IJCB 2022, 2023, 2024, 2025 IEEE BTAS-2018, USA, etc.
- 2015,2019 : Program Chair, Norwegian Biometrics Annual Workshop, NTNU - Norway

Commissions of Trust

- 2018- till now : Scientific Expert for Director of Scientific operations, National Research Agency (ANR), France.
- 2017- till now : PhD Evaluation Committee Jury: Visvesvaraya Technological University, India, Indian Institute of Information Technology (IIIT), Indian Institute of Technology (IIT), Technical University of Darmstadt, Germany, University of Twente, Netherlands.
- Reviewer (Jour) : IEEE Transactions on Image Processing and IEEE Transactions for Information Security and Forensics, Pattern Recognition, Pattern Recognition Letters, IEEE Access, IEEE Signal Processing Letters, IEEE - Transactions on Systems, Man, and Cybernetics–Part B: Cybernetics, Computer Vision and Image Understanding, IET Biometrics.
- Reviewer (Conf) : IEEE-BioSig (from 2013), ICB (from 2015), BTAS (from 2015), IST (from 2015), IAPR-ICIP (from 2016), IEEE-ISBA (from 2017), Technical Program Committee Member for International Conferences including: IEEE-BIOSIG (from 2014), IEEE-IWBF 2015, ACM International Conference on Multimedia (from 2019).

Memberships of Academies / Scientific Societies

- IEEE : Senior Member
- EAB : Member, European Association for Biometrics
- ISO/IEC SC37 : Editor, Representing Member, Standards Norway

Major Collaborations

Politidirektoratet, Norway	Nasjonalt ID Senter, Norway
Utlendingsdirektoratet, Norway	Evry, Norway
Technical University of Munich	Department of Computer Science
HDA Germany	Department of Computer Science
UTW Netherlands	Faculty of Electrical Engineering
UoG Netherlands	Faculty of Legal Studies
IDIAP Switzerland	Information Security Group
IDEMIA France	Research and Engineering
University of Paris-13	Institut Langevin
Southern University of Denmark	Department of Computer Science
Denmark Technical University	Department of Computer Science
Halmstad University, Sweden	Department of Computer Science
Indian Institute of Technology, India	Department of Computer Science

Track record

Patents	: 4
Number of journal articles	: 65
Number of conference publications	: 254
Number of book chapters	: 8
Number of competitions participated	: 10

Selected Scientific publications

1. Raghavendra Ramachandra, Sushma Venkatesh, 'PoolAtnRes: Towards Generalisable Differential Morphing Attack Detection', IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025.
2. Raghavendra Ramachandra, Narayan Vetrekar, Sushrut Patwardhan, Sushma Venkatesh, Gauresh Naik, and R. S. Gad, 'PCGattnNet: A 3D Point Cloud Dynamic Graph Attention for Generalizable Face Presentation Attack Detection', textslIEEE Transactions on Biometrics, Behavior, and Identity Science (T-BIOM), 2025.
3. Bora, Revoti Prasad, Philipp Terh rst, Raymond Veldhuis, Raghavendra Ramachandra, and Kiran Raja, "SLICE: Stabilized LIME for Consistent Explanations for Image Classification", IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 11(5), 2024.
4. Raghavendra Ramachandra, Narayan Vetrekar, Sushma Venkatesh, Savita Nageshker, Jag Mohan Singh, Rajendra S. Gad:, "VoxAtnNet: A 3D Point Clouds Convolutional Neural Network for Generalizable Face Presentation Attack Detection", IEEE/IAPR International Conference on Face & Gestures (FG), 2024.
5. Jag Mohan Singh, Raghavendra Ramachandra, '3D face morphing attacks: Generation, vulnerability and detection', IEEE Transactions on Biometrics, Behavior, and Identity Science, (T-BIOM), 2024.
6. Kong, Zhe, Wentian Zhang, Feng Liu, Wenhan Luo, Haozhe Liu, Linlin Shen, and Raghavendra Ramachandra, 'Taming self-supervised learning for presentation attack detection: De-folding and de-mixing', IEEE Transactions on Neural Networks and Learning Systems, (T-NNLS), 2023.

Full Publications

For full list of publications refer: <https://scholar.google.com/citations?hl=en&user=OIYIrmIAAAAJ>