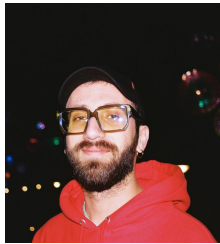


PERSONAL INFORMATION

Francesco Mancuso



 Galleria Gerace, 14, 56124 Pisa, Italy

 francesco.mancuso@cnit.it

 <https://labrass.cnit.it/staff/francesco-mancuso/>

Sex M | Date of birth 25/05/1994 | Nationality Italian

POSITION

Research Collaborator

WORK EXPERIENCE

2021 - Present

Research Collaborator

RaSS National Lab, CNIT, Pisa, Italy

- Interferometry
- Radar Imaging
- Multi-Channel Radar

Business or sector Research

2023

Digital Signal Processing Tutor

University of Adelaide, Adelaide, Australia

- Standard Tutorial
- Marking

Business or sector Education

2019 – 2020

R&D Engineer

Move Solutions, Lucca, Italy

- Statistical Signal Processing
- Anomaly Detection
- Electromagnetic Compatibility

Business or sector Structure Health Monitoring, IoT

EDUCATION AND TRAINING

- 2023 - 2024 **Visiting fellow**
Adelaide Radar Research Centre, University of Adelaide, Adelaide, Australia
- 2022 **Qualification to the Profession**
University of Pisa, Pisa, Italy (Information Engineering Sector, Section A)
- 2021 – Present **Ph.D. in Information Engineering**
University of Pisa, Pisa, Italy
- 2018 – 2021 **M.Sc. Telecommunications Engineering**
University of Pisa, Pisa, Italy (cum laude)
- 2013 – 2017 **B.Sc. Telecommunications Engineering**
University of Pisa, Pisa, Italy (Final mark: 108/110)
- 2008 - 2013 **High School Diploma**
I.T.I. "E.Scalfaro", Catanzaro, Italy (Final mark: 100/100)

PERSONAL SKILLS

Mother tongue(s) Italian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Computer skills Replace with your computer skills. Specify in what context they were acquired. Example:

- **Coding:** Matlab, Python, LATEX, Javascript, C/C++
- **Python Libraries:** NumPy, Matplotlib, Scikit-learn, SciPy, Xarray
- **Operating Systems:** Windows, Linux, MacOS
- **Dev Tools:** Jupyter Notebook, Visual Studio Code, GitHub, GNU Radio

Driving licence ▪ AB

ADDITIONAL INFORMATION

- Certifications**
- 2024: 6th Edition of the DLR/ESA Open Pol-InSAR Training Course
 - 2023: English for Research Publication and Presentation Purposes (C1+), University of Pisa
 - 2021: 5G: Enabling Technologies, University of Pisa
 - 2013: Cisco Networking Academy, IT Essential: PC Hardware and Software
- Conferences**
- IEEE International Radar Conference 2023, Sydney, AU
 - 1st IEEE LCN Workshop on Maritime Communication and Security (MarCaS), Daytona Beach, US
 - 2022 IET International Conference on Radar Systems, Edinburgh, UK
 - GTTI22: Joint Annual Meeting of GTTI-CNIT, Padova, IT
 - IEEE Radar Conference 2022, New York, US
 - CODIS Firenze 2019, Firenze, IT
- Seminars**
- IEEE CAES South Australia Invited Talk, Online
- Honours and awards**
- 2023: Student Travel Grant, IEEE LCN 2023
 - 2021: Ph.D. Scholarship, University of Pisa
 - 2020: Weekly Winning Idea, ESA COVID-19 Custom Script Contest
- Memberships**
- 2023 – Present: Ordine degli Ingegneri della provincia di Pisa
 - 2022 – Present: IET Student Member, IEEE Graduate Student Member (Aerospace and Electronic Systems Society)
 - Associazione Dottorandi e Dottori di Ricerca in Italia

PUBLICATIONS

- Journal**
- **F. Mancuso**, E. Giusti, B. Ng, and M. Martorella, “Dual-Frequency Phase Unwrapping for 3D InSAR Imaging of Non-Cooperative Targets,” *IEEE Transactions on Radar Systems*, vol. 2, pp. 434–445, 2024. doi: 10.1109/TRS.2024.3392073.
 - A. Kumar, E. Giusti, **F. Mancuso**, S. Ghio, A. Lupidi, and M. Martorella, “Three-Dimensional Polarimetric InSAR Imaging of Non-Cooperative Targets,” *IEEE Transactions on Computational Imaging*, vol. 9, pp. 210–223, 2023. doi: 10.1109/TCI.2023.3248942.
- Conference Proceedings**
- G. Meucci, **F. Mancuso**, E. Giusti, A. Kumar, S. Ghio, and M. Martorella, “Point Cloud Transformer (PCT) for 3D-InSAR Automatic Target Recognition,” in *2023 IEEE Radar Conference (RadarConf23)*, 2023, pp. 1–6. doi: 10.1109/RadarConf2351548.2023.10149787.
 - G. Meucci, B. Karahoda, A. H. Oveis, **F. Mancuso**, E. Jajaga, and A. Cantelli-Forti, “Naval Cybersecurity in the Age of AI: deceptive ISAR Images Generation with GANs,” in *2023 IEEE 48th Conference on Local Computer Networks (LCN)*, 2023, pp. 1–6. doi: 10.1109/LCN58197.2023.10223338.
 - E. Giusti, A. Kumar, **F. Mancuso**, S. Ghio, and M. Martorella, “Fully polarimetric multi-aspect 3D InSAR,” in *2022 23rd International Radar Symposium (IRS)*, 2022, pp. 184–189. doi: 10.23919/IRS54158.2022.9905018.
 - A. Kumar, E. Giusti, **F. Mancuso**, and M. Martorella, “Polarimetric Interferometric ISAR Based 3-D Imaging of Non-Cooperative Target,” in *IGARSS 2022 - 2022 IEEE International Geoscience and Remote Sensing Symposium*, 2022, pp. 385–388. doi: 10.1109/IGARSS46834.2022.9883669.
 - **F. Mancuso**, E. Giusti, A. Kumar, S. Ghio, and M. Martorella, “Comparative assessment of polarimetric features estimation in fully polarimetric 3D-ISAR imaging system,” in *International Conference on Radar Systems (RADAR 2022)*, 2022, pp. 353–358. doi: 10.1049/icp.2022.2343.
 - **F. Mancuso**, E. Giusti, and M. Martorella, “Polarimetric Three-Dimensional ISAR Imaging,” in *2022 IEEE Radar Conference (RadarConf22)*, 2022, pp. 1–6. doi: 10.1109/RadarConf2248738.2022.9763910.