

Romeo Lanzino

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Education and Employment

- **Postdoc in Artificial Intelligence** 2025 - ongoing
KTH Royal Institute of Technology Stockholm, Sweden
 - Project name: "*Online Task-free Continual Learning for Healthcare*"
- **Postdoc in Artificial Intelligence** 2025
Sapienza University of Rome Rome, Italy
- **National PhD in Artificial Intelligence** 2021 - 2025
Sapienza University of Rome and University of Calabria Rome and Cosenza, Italy
 - Thesis name: "*Sparking Light on Deep Learning in EEG Research*"
- **Visiting PhD student** 2023
KTH Royal Institute of Technology Stockholm, Sweden
- **MSc in Computer Science** 2019 - 2021
Sapienza University of Rome Rome, Italy
 - Thesis name: "*Laplacian-regularized Transductive Inference for Few-shot Object Detection*"
- **BSc in Computer Science** 2016 - 2019
Sapienza University of Rome Rome, Italy
 - Thesis name: "*Design and development of the statistics section of the InfoProf mobile app*"

Other Educational Activities

- **Attended the Digitalize in Stockholm '25 event** 2025
Organized by Digital Futures Stockholm, Sweden
- **Attended the International Computer Vision Summer School (ICVSS'24)** 2024
Organized by the University of Cambridge and the University of Catania Catania, Italy
- **Attended the International Summer School on Artificial Intelligence (AI-DLDA'23)** 2023
Organized by the University of Udine Udine, Italy
- **Attended the National PhD. in AI Summer School** 2022
Organized by Sapienza University of Rome Rome, Italy

Teaching Experiences

- **Speaker for the Computer Vision course, at the MSc in Computer Science** 2023 - 2025
Sapienza University of Rome Rome, Italy
- **Speaker for the Deep Learning course, at the BSc in Applied CS and AI** 2024 - 2025
Sapienza University of Rome Rome, Italy

Management Experiences

- **Organizer of 1st BISCUIT workshop** 2025
ICCV'25 Honolulu, USA
 - Focuses on foundational research in Unbiasedness, Interpretability, and Trustworthiness in AI, exploring algorithmic bias, interpretability science, and dependable system design through rigorous methods and theory
- **Organizer of the 2nd VisionDocs workshop** 2025
ICCV'25 Honolulu, USA
 - A cross-disciplinary forum advancing AI-driven Document Analysis, with a focus on low-resource, diverse, and historical documents, multimodal inputs, and generalization across varied formats

Projects

- **Neural Architecture Search for Deep Differentiable Logic Gate Networks** 2024
Sapienza University of Rome AR22419015F9D804
 - As the PI, funded for 2000 €
- **REDRAWING SCRAPS: Upcycling through Artificial Intelligence and Fashion Design** 2024 - *ongoing*
Sapienza University of Rome RP12419109B80C26
 - As a component of the team, funded for 3220 €
- **EEG emotion recognition on non-medical headsets** 2023 - 2024
Sapienza University of Rome AR123188AECE1080
 - As the PI, funded for 1000 €
- **A BCI-based System for Transferring Human Emotions inside UAVs** 2022 - 2024
Sapienza University of Rome RM1221816C1CF63B
 - As a component of the team, funded for 12 000 €

Honors and Awards

- **Best presentation award, won after presenting [9]** 2024
ICVSS'24 Catania, Italy
- **Honor programme MSc student** 2020-2021
Sapienza University of Rome Rome, Italy

Publications

Journals

- [1] R. Lanzino, D. Avola, F. Fontana, L. Cinque, F. Scarcello, and G. L. Foresti, “Sateer: Subject-aware transformer for eeg-based emotion recognition,” *International Journal of Neural Systems*, vol. 35, no. 02, p. 2 550 002, 2025, PMID: 39560447. DOI: [10.1142/S0129065725500029](https://doi.org/10.1142/S0129065725500029). eprint: <https://doi.org/10.1142/S0129065725500029>. [Online]. Available: <https://doi.org/10.1142/S0129065725500029>.
- [2] D. Avola, L. Cinque, A. Di Mambro, R. Lanzino, D. Pannone, and F. Scarcello, “Multi-stream 1d cnn for eeg motor imagery classification of limbs activation,” *IEEE Access*, vol. 12, pp. 83 940–83 951, 2024. DOI: [10.1109/ACCESS.2024.3412710](https://doi.org/10.1109/ACCESS.2024.3412710).
- [3] F. Fontana, R. Lanzino, M. R. Marini, D. Avola, L. Cinque, F. Scarcello, and G. L. Foresti, “Distilled gradual pruning with pruned fine-tuning,” *IEEE Transactions on Artificial Intelligence*, vol. 5, no. 8, pp. 4269–4279, 2024. DOI: [10.1109/TAI.2024.3366497](https://doi.org/10.1109/TAI.2024.3366497).
- [4] D. Avola, L. Cinque, G. L. Foresti, R. Lanzino, M. R. Marini, A. Mecca, and F. Scarcello, “A novel transformer-based imu self-calibration approach through on-board rgb camera for uav flight stabilization,” *Sensors*, vol. 23, no. 5, 2023, ISSN: 1424-8220. DOI: [10.3390/s23052655](https://doi.org/10.3390/s23052655). [Online]. Available: <https://www.mdpi.com/1424-8220/23/5/2655>.
- [5] D. Avola, I. Cannistraci, M. Cascio, L. Cinque, A. Diko, A. Fagioli, G. L. Foresti, R. Lanzino, M. Mancini, A. Mecca, and D. Pannone, “A novel gan-based anomaly detection and localization method for aerial video surveillance at low altitude,” *Remote Sensing*, vol. 14, no. 16, 2022, ISSN: 2072-4292. DOI: [10.3390/rs14164110](https://doi.org/10.3390/rs14164110). [Online]. Available: <https://www.mdpi.com/2072-4292/14/16/4110>.

Conferences

- [6] S. Esteban-Romero, R. Lanzino, M. R. Marini, and M. Gil-Martín, “Towards multi-view hand pose recognition using a fusion of image embeddings and leap 2 landmarks,” in *Proceedings of the 17th International Conference on Agents and Artificial Intelligence - Volume 3: ICAART, INSTICC, SciTePress*, 2025, pp. 918–925, ISBN: 978-989-758-737-5. DOI: [10.5220/0013234300003890](https://doi.org/10.5220/0013234300003890).
- [7] F. Fontana, R. Lanzino, A. Diko, G. L. Foresti, and L. Cinque, “Cyclebnn: Cyclic precision training in binary neural networks,” in *Computer Vision – ECCV 2024 Workshops*, A. Del Bue, C. Canton, J. Pont-Tuset, and T. Tommasi, Eds., Cham: Springer Nature Switzerland, 2025, pp. 113–130, ISBN: 978-3-031-91979-4.

- [8] **R. Lanzino**, F. Fontana, L. Cinque, F. Scarcello, and A. Maki, “Neural transcoding vision transformers for eeg-to-fmri synthesis,” in *Computer Vision – ECCV 2024 Workshops*, A. Del Bue, C. Canton, J. Pont-Tuset, and T. Tommasi, Eds., Cham: Springer Nature Switzerland, 2025, pp. 53–70, ISBN: 978-3-031-91907-7.
- [9] **R. Lanzino**, F. Fontana, A. Diko, M. R. Marini, and L. Cinque, “Faster than lies: Real-time deepfake detection using binary neural networks,” in *2024 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2024, pp. 3771–3780. DOI: [10.1109/CVPRW63382.2024.00381](https://doi.org/10.1109/CVPRW63382.2024.00381).
- [10] D. Avola, L. Cinque, M. De Marsico, A. Di Mambro, A. Fagioli, G. L. Foresti, **R. Lanzino**, and F. Scarcello, “Lietome: An lstm-based method for deception detection by hand movements,” in *Image Analysis and Processing – ICIAP 2023*, G. L. Foresti, A. Fusiello, and E. Hancock, Eds., Cham: Springer Nature Switzerland, 2023, pp. 387–398, ISBN: 978-3-031-43148-7.
- [11] A. Palombini, E. Baiocchi, **R. Lanzino**, S. G. Malatesta, M. R. Marini, and P. Rosati, “The NuragAI project: Artificial Intelligence-driven Image Analysis of Sardinia Landscape, Searching for Unknown Monuments,” in *Eurographics Workshop on Graphics and Cultural Heritage*, A. Bucciero, B. Fanini, H. Graf, S. Pescarin, and S. Rizvic, Eds., The Eurographics Association, 2023, ISBN: 978-3-03868-217-2. DOI: [10.2312/gch.20231179](https://doi.org/10.2312/gch.20231179).

Additional information

- **Languages:** Italian (*mothertongue*), English (*advanced*), French (*basic*), Swedish (*basic*)
- **Programming languages:** Python, Java, Javascript, Typescript, C#, C++, C