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Scopus profile: <https://www.scopus.com/authid/detail.uri?authorId=55866544200>

Google Scholar profile: <https://scholar.google.it/citations?user=gcztqXgAAAAJ&hl=it>

Publons profile: <https://publons.com/a/1463360>

ORCID ID: <https://orcid.org/0000-0003-3461-4679>

Institutional webpage: <https://www.dmi.unict.it/ortis/>

Gender Male | Date of birth 18/07/1988 (Italy)

National Academic Qualification (ASN) for Associate Professor (Seconda Fascia) - Awarded by the Italian Ministry of Education, Universities and Research (MIUR)

Citation Scores  
(Scopus)  
(Google Scholar)

Total citations: 643      h-index: 15

Total citations: 1.002      h-index: 19

#### EDUCATION

November 2015 -  
October 2018 (3 years)

*Ph.D in Mathematics & Computer Science (XXXI cycle)*

Level 8 EQF

University of Catania (Italy)

Thesis title "*Methods for Sentiment Analysis and Social Media Popularity of Crowdsourced Visual Contents*"

Main topics: Computer Vision, Machine Learning, Sentiment Analysis

Scholarship granted by Telecom Italia Tutor: Prof. Sebastiano Battiato

October 2012 – March  
2015

*M.S. in Computer Science - 110/110 magna cum laude*

Level 7 EQF

University of Catania (Italy)

Specific Courses: Image Processing, Multimedia, Pattern Recognition, Computer Vision, Computer Graphics, Computer Forensics.

Average Grade: **30/30**      **8 full marks with distinction**

October 2007 – July 2012

*B.S. in Computer Science - 110/110 magna cum laude*

Level 6 EQF

University of Catania (Italy)

Average Grade: **29/30**      **7 full marks with distinction**

Sept 2002 – June 2007

*Industrial Engineer in Computer Science - 100/100*

Level 5 EQF

#### Certifications

August 5, 2016

Machine Learning by Stanford University on Coursera certificate. Final Grade: **96,1%**

May 2019

"Processi di apprendimento, innovazione e metodologie didattiche" (6 hours of frontal lessons). University of Catania (Italy).

June 25, 2018

"Gli strumenti di supporto agli studenti nei processi di apprendimento e di inserimento nella vita universitaria" (4 hours of frontal lessons). University of Catania (Italy).

Jan 15, 2019

24 CFU credits on anthropo-psycho-pedagogical disciplines and teaching methodologies.

March 2011 – June 2011

Certification of examination at "The Mainframe" course held by IBM Executive IT Specialist Angelo Barbarino - *IBM Italia spa* (IBM Mainframe, Hybrid Systems, Platform Selection, Cloud Computing).

#### AWARDS

February 2022

IEEE Senior Membership recognition.

02 August 2021

Certificate of recognition for the **most downloaded papers in April 2021** (2<sup>nd</sup> ranked out of 1094) **and May 2021** (2<sup>nd</sup> ranked out of 935) in *IET Image Processing Journal* ([link](#)).

30 April 2021

Best Poster Presentation at the International Conference on Image Processing and Vision Engineering – *IMPROVE 2021* ([link](#)).

23 July 2015

Archimede's prize conferred by University of Catania for the excellence of the academic career ([link](#)).

### *Institutional Activity*

**Delegate of Director** of the Department of Mathematics and Computer Science of the University of Catania for the Third Mission: relationship between University and local companies. Since 2024.

**Committee member** for the admission to the MD programme in Data Science for Management, University of Catania. Academic Year 2021-2022 and 2022-2023.

**Teaching committee member** for the Doctorate programme in Computer Science, University of Catania, AY 2021-2022.

**Committee member** for the promotion of the MD programme in Data Science for Management, University of Catania. Since 2020.

**Committee member** of the POLA. Smart Working Strategies, of the Department of Mathematics and Computer Science, University of Catania. Since 2022.

**Committee member** for several research grants assignment on different topics related to Computer Vision, Machine Learning and AI. Department of Mathematics and Computer Science, University of Catania. Since 2020.

### *Chairing Activity*

#### **General Chair**

- ICAETA-2024, the 3rd International Conference on Advanced Engineering, Technology and Applications (<https://icaeta.com/>)
- ICAETA-2022, the 2nd International Conference on Advanced Engineering, Technology and Applications (<https://icaeta.com/>)

#### **Area Chair**

- ACM Multimedia 2024 *the 32nd ACM International Conference on Multimedia*.
- ACM Multimedia 2023 *the 31st ACM International Conference on Multimedia*.
- ICIAP 2023 *the 22nd International Conference on Image Analysis and Processing – Digital Forensics and Biometrics*.
- ACM Multimedia 2022 *the 30th ACM International Conference on Multimedia*.

#### **Tutorial Chair**

- ACM SAC 2025 (ACM/SIGAPP Symposium On Applied Computing)

#### **Publication Chair**

- MMforWILD (Multimedia FORensics in the WILD) – ICPR 2022 Workshop.
- MMforWILD (Multimedia FORensics in the WILD) – ICPR 2020 Workshop.

#### **Workshop Chair**

- International Workshop on Microscope Image Processing (MIP 2021) – SIGMAP 2021 Workshop.
- IMPROVE 2021 (International Conference on Image Processing and Vision Engineering).

#### **Track Chair & Coordinator**

- IEEE MetroXRINE 2024 - Artificial Intelligence for Health
- ACM SAC 2025 (ACM/SIGAPP Symposium On Applied Computing) - Advancing Deepfake Detection in Multimedia Forensics and Biometry
- ACM SAC 2025 (ACM/SIGAPP Symposium On Applied Computing) - Computational Horizons in Medical Imaging
- PCMA (Patterns for Crowdsourced Media Analysis) PATTERNS 2017.

#### **Session Chair**

- ICAETA-2024, the 3rd International Conference on Advanced Engineering, Technology and Applications (<https://icaeta.com/>)
- Image Processing and Vision Engineering - IMPROVE 2021 (International Conference on Image Processing and Vision Engineering).

- Pollen Grain Classification Challenge – ICPR 2020 Challenge.
- MULTIFORESEE 2019 (MULTI-modal Imaging of FOREnsic SciEnce Evidence tools for Forensic Science).

### Invited Talks

- June 2024 **Keynote speaker** - World Conference on Data Science & Statistics 2024, Amsterdam
- May 2024 **Keynote speaker** - International Conference on Advanced Engineering, Technology, and Applications 2024
- April 2024 **Invited speaker** - GHOST Day: Applied Machine Learning Conference 2024, Poznan
- Sept 2023 **Invited speaker** – ICIAP 2023 - International Conference on Image Analysis and Processing - Tutorial: Adversarial Machine Learning on Multimedia Forensics Domain.
- May 2022 **Invited speaker** – ICIAP 2021 - International Conference on Image Analysis and Processing - Tutorial: An Introduction on Deepfakes Creation and Detection Approaches.
- April 2022 **Invited speaker** - IMPROVE 2022 - International Conference on Image Processing and Vision Engineering - Tutorial: Deepfakes and Adversarial Machine Learning.
- 27 January 2022 **Invited speaker** - Smart Robot Workshop @ UNISA – Computer Vision e Robotica: Case studies@UniCT. <https://mivia.unisa.it/smartrobot/#program>
- 10-24 October 2021 **Invited Guest Lecturer** - University of Hertfordshire - School of Physics Engineering and Computer Science, UK – Topics: Artificial Intelligence, GAN, Deepfakes and Adversarial Machine Learning.
- 21 Sept. 2019 **Invited speaker** – Scuola di Formazione Politica per il Bene Comune – Incontro su “Rapporto persona-algoritmo: quali prospettive per la libertà” – Catania, Italia, 21 Settembre 2019.
- 26 July 2019 **Invited Lecturer** at SIGMAP 2019 – Topic: *Sentiment Analysis on Social Media*.

### Challenges Organization

- 23-27 May 2022 IAPR International Conference on Image Analysis and Processing (ICIAP 2021) *Deepfake Images Detection and Reconstruction Challenge*
- 25-28 October 2020 IEEE International Conference on Image Processing (ICIP 2020) *Challenge Session – Predicting Social Image Popularity Dynamics*
- 13-18 September 2020 IAPR International Conference on Pattern Recognition (ICPR 2020) *Challenge Session – Pollen Grain Classification Challenge*

### Editor Activity

- Guest Editor of Journal of Imaging** – Special Issue on “Advancements in Deepfake Technology, Biometry System and Multimedia Forensics”. - **Editors:** L. Guamera, A. Ortis, G. Orrù. 2024
- Guest Editor of SENSORS** – Special Issue on “Artificial Intelligence and Multimodal Technology for Health Applications”. **Editors:** A. Ortis, S. Battiato, F. Rundo. 2022.
- Guest Editor of Multimedia Tools and Applications** – Battiato, S., Marchetti-Deschmann, M., Francese, S., & Ortis, A.. Interdisciplinary forensics: government, academia and industry interaction. *Multimed Tools Appl* 81, 22609 (2022). <https://doi.org/10.1007/s11042-022-13351-8>
- Guest Editor of IJERPH** – Special Issue on “The Role of Technology, CyberPsychology, Images and Social Media in Cigarettes and Tobacco Habits”. - **Editors:** A. Ortis, S. Battiato, P. Caponnetto. 2021.
- Review Editor of Frontiers** – Frontiers in ICT and Frontiers in Computer Science (Computer Vision)
- Co-editor** of the proceedings related to the competition "Pollen Grain Classification Challenge" in conjunction with ICPR 2020 - 25th International Conference on Pattern

Recognition. Lecture Notes in Computer Science LNCS 2021, Volume 12668 - Part VIII Pages 469-479.

**Editor of PATTERNS 2017** - The Ninth International Conferences on Pervasive Patterns and Applications. IARIA Conference. Athens, Greece, February 19-23, 2017.

**Editors:** H. Manaert (University of Antwerp, Belgium), Y. Iwahori (Chubu University, Japan), A. Mirnig (University of Salzburg, Austria), **A. Ortis** (University of Catania, Italy), C. Perez (Paris School of Business, France), J. Daykin (Aberystwyth University, Mauritius Branch Camp, Mauritius).

**Topic Editor of Sensors (MDPI Journal)**

*Organization/Committee  
Membership at  
International Events*

**Local Committee Member of ACM SAC 2025** (ACM/SIGAPP Symposium On Applied Computing)

**Local Committee Member of IFOSS** (International Summer School on Forensics) – Ragusa, Italy. Editions 2022, 2023, 2024.

**Topical Advisory Panel Member of Sensors.** 2023 – now.

**Program Committee Member of ISHAPE 2022** (International workshop on Intelligent Systems in Human and Artificial PEception) – Lecce, Italy

**Program Committee Member of CompSysTech 2020** (International Conference on Computer Systems and Technologies) – Ruse, Bulgaria

**Program Committee Member of SIGMAP 2020** (International Conference on Signal Processing and Multimedia Applications)

**Program Committee Member of CVCS 2020** (Colour and Visual Computing Symposium)

**Program Committee Member of MMforWILD 2020** (Multimedia FORensics in the WILD) – ICPR 2020 Workshop.

**Scientific Organizing Committee Member of MULTIFORESEE 2019** (MULTI-modal Imaging of FOREnsic SciEnce Evidence tools for Forensic Science).

**Program Committee Member of EMERGING 2019** (The Eleventh International Conference on Emerging Networks and Systems Intelligence)

**Program Committee Member of EPIC 2018** (International Workshop on Egocentric Perception, Interaction and Computing)

**Program Committee Member of PATTERNS 2018** (Tenth International Conferences on Pervasive Patterns and Applications)

**Program Committee Member of PATTERNS 2017** (Ninth International Conferences on Pervasive Patterns and Applications)

*Peer reviewer for the  
following Journals and  
Conferences*

verified peer review record at  
<https://publons.com/a/1463360>

**IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) 2022, 2023**

**IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020-2022**

**IEEE Winter Conference on Applications of Computer Vision, 2019**

**IEEE Access, 2019-2022**

**IEEE Transactions on Affective Computing (TAC), 2019**

**IEEE Transactions on Multimedia (TMM), 2018**

**European Conference on Computer Vision (ECCV), 2022**

**ACM Computing Surveys (CSUR), 2019**

**ACM International Conference on Multimedia Retrieval (ACM ICMR), 2020-2022**

**Pattern Recognition (PR), 2018, 2019**

**IAPR International Conference on Pattern Recognition (ICPR), 2020**

**European Conference on Computer Vision (ECCV), 2018, 2019**

**Artificial Intelligence Review (Springer Nature), 2017-2022**

**Multimedia FORensics in the WILD (MMforWILD) – ICPR Workshop, 2020,2022.**

**IET Image Processing (IET-IP), 2019**

**Multimedia Tools and Applications Journal (MTAP), 2018, 2019**

**Pattern Recognition Letters (PRL), 2018, 2019**

**Journal of Electronic Imaging (JEI), 2016, 2018**

**Open Computer Science, 2019-2022**

**MDPI Sensors (SENSC9), 2019**

**MDPI Information (INFOGG), 2019**

**MDPI Biosensors (BIOSHU), 2018, 2019**

**MDPI Bioengineering, 2022**

**Cyberpsychology, Behaviour, and Social Networking, 2020**

**Int. Conference on Signal Processing and Multimedia Applications (SIGMAP), 2020-2022**

**Egocentric Perception Interaction and Computing Workshop (EPIC)**, 2018  
**Computer Vision and Image Understanding Journal (CVIU)**, 2015  
**IET Computer Vision (IET-CVI)**, 2016, 2018, 2019  
**Expert Systems with Applications**, 2018  
**Workshop on Assistive Computer Vision and Robotics (ACVR)**, 2017, 2018  
**IEEE Winter Conference on Applications of Computer Vision (WACV)**, 2018, 2019, 2020  
**Artificial Intelligence Review (AIRE)**, 2018  
**Open Computer Science (OPENCs)**, 2019, 2020  
**Vision for Interaction and Behaviour understanding (VIBE)**, 2018  
**International Conferences on Pervasive Patterns and Applications (PATTERNS)**, 2017/18  
**International Conference on Image Analysis and Processing (ICIAP)**, 2017-2022  
**International Conference on Computer Vision Theory and Applications (VISAPP)** 2017/18

#### Conferences & Workshops (2015-now)

International Conference on Image Analysis and Processing 2023 – *Udine, IT*  
 Ital-IA – Convegno Nazionale CINI sull'Intelligenza Artificiale 2022 – *Online*  
 Smart Robot Workshop @ UNISA, Salerno  
 IMPROVE 2021 Int. Conference on Image Processing and Vision Engineering, *Virtual*  
 International Conference on Image Analysis and Processing 2021 – *Lecce, IT*  
 ICPR 2020 International Conference on Pattern Recognition, *Virtual*  
 IEEE International Conference on Image Processing 2020 - ICIP - *Abu Dhabi, SA*  
 MULTIFORESEE 2019 (MULTI-modal Imaging of FOREnsic SciEnce Evidence tools for Forensic Science) – *Catania, IT*  
 International Conference on Image Analysis and Processing 2019 – *Trento, IT*  
 SIGMAP International Conference on Signal Processing and Multimedia Applications  
 Ital-IA – Convegno Nazionale CINI sull'Intelligenza Artificiale 2019 – *Rome, IT*  
 Data Science and Social Research 2019 – *Milan, IT*  
 Content Based Multimedia Indexing 2018 – *La Rochelle, FR*  
 International Workshop on Computer Vision 2018 – *Modena, IT*  
 International Conference on Image Analysis and Processing 2017 – *Catania, IT*  
 International Conference on Pervasive Patterns and Applications 2017 – *Athens, GR*  
 Variational Inequalities, Nash Equilibrium Problems and Applications 2016 – *Catania, IT*  
 ACM International Conference on Multimedia Retrieval 2016 – *New York, USA*  
 ACM Multimedia 2015 – *Brisbane, AUS*

#### International Schools

Eds. 2023, 2024  
 07-13 July 2019  
 27 Aug- 7 Sep 2018  
 29 Jul- 4 Aug 2018  
 8-14 July 2018  
 29 May- 01 June 2017  
 11-15 July 2017  
 04-10 September 2016  
 01-06 August 2016  
 17-23 July 2016  
 12-18 July 2015  
 13-19 July 2014  
 14-20 July 2013

International Forensics Summer School, Sampieri IT  
 International Computer Vision Summer School – *Computer Vision - Where are we?, Sampieri, IT*  
 Machine Learning Summer School (MLSS). *Madrid, ES*  
 Medical Imaging Summer School – *Medical Imaging meets Deep Learning. Favignana, IT*  
 International Computer Vision Summer School – *Computer Vision after Deep Learning. Sampieri, IT*  
 Multimedia Security – Held by Prof. S. Battiato at the ICT Doctoral School. *Trento, IT*  
 International Computer Vision Summer School – *From Representation to Action and Interaction. Sampieri, IT*  
 S3P IEEE-EURASIP Summer School on Signal Processing – *Semantics in Media. Trento, IT*  
 Medical Imaging Summer School – *Medical Imaging meets Machine Learning. Favignana, IT*  
 International Computer Vision Summer School – *What happens next? Sampieri, IT*  
 International Computer Vision Summer School – *Learning to see. Sampieri, IT*  
 International Computer Vision Summer School – *From Fundamentals to Applications. Sampieri, IT*  
 International Computer Vision Summer School – *Computer Vision and Machine Learning. Sampieri*

#### Membership at International Associations/Societies

##### IEEE Senior Member

- IEEE Biometrics Council Membership. Since 2024.
- IEEE Signal Processing Society Membership. Since 2016.
- IEEE Young Professional Membership. Since 2022.
- IEEE Information Theory Society Membership. Since 2022.
- IEEE System Council Membership. Since 2022.
- IEEE Member - Membership No.: 93903579. Since 2016.

**Member of the of the Public-Private Joint Research Laboratory between STMicroelectronics and the of the University of Catania.** 2019-now

**Member of the Interest Group for Data Science in Food Safety Risk Assessment of**

**the EFSA (European Food Safety Authority).** September 2021-now.

**Member of CoEHAR** (Center of Excellence for the acceleration of Harm Reduction)

**Member of ILhM Centre** - (Innovation Leadership and healthcare management)

**Member of CINI** and its national laboratories on "Smart Cities"; "Artificial intelligence and intelligent Systems"; "Cybersecurity";

**Member of Reviewer Board of SENSORS** (MDPI Journal)

**Member of COST** (European Cooperation in Science and Technology).

**Member of REPRISE:** expert reviewers for research projects funded by the Italian Ministry of Education, Universities and Research (MIUR).

**Member of CVPL:** Italian association for the research in Computer Vision Pattern recognition and machine Learning.

**Researcher at Image Processing Laboratory** (IPLAB) – University of Catania

**Member of INSTICC** (Institute for Systems and Technologies of Information, Control and Communication) Membership N.:18607

**Member of SIGMM** (Special Interest Group in Multimedia) - Membership No.: 7355131

## Short Bio

I am a Tenure Track Assistant Professor at the University of Catania. In 2023 I achieved the National Academic Qualification (ASN) for Associate Professor (Seconda Fascia) Awarded by the Italian Ministry of Education, Universities and Research (MIUR). I have been working in the field of Computer Vision research since 2012, when I joined to the IPLab (Image Processing Laboratory) and started a research internship at STMicroelectronics, working on the problem of stereoscopic image compression. As result, I published two conference papers and an International Patent [US9183644B2]. The experiences and further extensions of this work have been published in a journal paper. In 2015, after my master's degree (summa cum laude), I was awarded the Archimede Prize for Excellence in Academic Career conferred by the University of Catania. Along the way I have done another research internship at TIM (Telecom Italia), working on crowdsourced image/video analysis. During this experience, I published several works on the field of computer vision, multimedia, and pattern recognition applied to multi-modal crowdsourced data (e.g., images, text, GPS, etc.).

After the internship, the company decided to extend our collaboration granting me a PhD scholarship, and in January 2019 I have achieved the PhD in Mathematics and Computer Science at the University of Catania (XXXI cycle). The PhD thesis investigates several aspects related to Visual Sentiment Analysis applied to crowdsourced images/videos. I spent part of my PhD research at the Imperial College in London, under the supervision of Prof. Catarina Sismeiro, working on the analysis of social media advertising contents. Since 2017, I have been publishing several works on the topics of crowdsourced media analysis, multi-source video stream analysis and understanding, image/text sentiment analysis, including conference papers and journals. In the meantime, I have been collaborating with several research groups working on different topics such as autonomous driving of Unmanned Aerial Vehicles (UAV) and physiological signal analysis. In 2017 I participated to the MBZIRC challenge, which aimed to develop solutions to make an UAV able to autonomous land on top of a moving vehicle. Our ranked fourth in the challenge, and the achieved results have been reported on two papers.

Due to the results achieved during my PhD, I was requested to organize the special issue on Patterns for Crowdsourced Media Analysis at PATTERNS 2017 and I was invited as lecturer at several International Conferences to hold lectures on Sentiment Analysis, Social Media, Deepfakes, Adversarial Machine Learning and related topics. Furthermore, I also organize scientific events, such as Scientific Competitions in conjunction with International Conferences as well as International Summer Schools. I have also worked on other computer vision topics such as skin lesion analysis, context-aware image resizing and how Convolutional Neural Networks are influenced by input pre-processing.

As fellow researcher, my duties have been extended and I have also started to work on multidisciplinary research topics. Between 2018 and 2019 I worked on the field of physiological signal analysis publishing two journals and one conference paper about PPG/ECG analysis and blood pressure estimation. Since 2019 I am a collaborator of CoEHAR (research Center of Excellence for the Acceleration of HArm Reduction), and since 2021 I'm member of the CoEHAR scientific board. The results of this line of research have been reported on three journal papers. In the context of CoEHAR, I oversee the research activities of two projects related to food recognition for dietary assessment and smart smoking detection, respectively.

In the meantime, I have been working on several research projects that involve the combination of physiological signals and image analysis for Advanced Driver Assistance Systems (ADAS+), the development of smart tools for clinical decision support systems (DL4HEALTH), the definition of algorithms for smart manufacturing (SATURN), among others. I have overseen research activities in collaboration with a group of agrobiologists and the Ferrero Hco Company, which aims to develop systems to perform the automatic analysis and diagnosis of pollen grains from microscope images. Our first results have been reported on two conference papers. I have also organized and chaired the Pollen Grain Classification Challenge at IAPR ICPR 2020.

Sept. 2022 – now	<i>Tenure Track Assistant Professor (RTDb) – University of Catania</i> Università degli Studi di Catania – Dipartimento di Matematica e Informatica
Sept. 2020 – Sept. 2022	<i>Research Fellow (RTDa) – University of Catania</i> Sviluppo di Tecnologie e sistemi avanzati per la sicurezza dell'auto mediante piattaforme ADAS-ADAS+ (Advanced Driver Assistance Systems).
Feb. 2019 – Sept. 2020	<i>Contract Researcher (Post-doc)</i> University of Catania – Department of Mathematics and Computer Science
Fall 2021	<i>Visiting Researcher</i> Visiting Researcher at the Imperial College London Analysis of Social Media data for Sentiment Analysis and Engagement evaluation

- J1. Bonaccorso, Angela, et al. **"Nose-to-Brain Drug Delivery and Physico-Chemical Properties of Nanosystems: Analysis and Correlation Studies of Data from Scientific Literature."** International Journal of Nanomedicine (2024): 5619-5636.
- J2. Bougourzi, Fares, et al. **"COVID-19 Infection Percentage Estimation from Computed Tomography Scans: Results and Insights from the International Per-COVID-19 Challenge."** Sensors 24.5 (2024): 1557.
- J3. Cillo, A., Ulu, C., Borgonovo, E., Ortis, A., & Battiato, S. (2024). **Utilization of Advice from Human-in-The-Loop Systems.** Available at SSRN 4702631.
- J4. Hussain, M., Ortis, A., Polosa, R., & Battiato, S. (2023). **Semantic Food Segmentation Using Convolutional Deconvolutional Pyramid Network for Health Monitoring.** International Journal of Computer Theory and Engineering, 15(4).
- J5. R., Alessia, et al. **Boosting multiple sclerosis lesion segmentation through attention mechanism.** Computers in Biology and Medicine 161 (2023): 107021.
- J6. Battiato, S., Caponnetto, P., Leotta, R., Marotta, G., Midolo, A., Ortis, A., & Polosa, R. (2023). **Development and User Evaluation of a Food-recognition app (FoodRec): Experimental Data and Qualitative Analysis.** Health Psychology Research.
- J7. Guarnera, L., et al. **The Face Deepfake Detection Challenge.** J. Imaging 2022, 8, 263.
- J8. Rundo, F., Anfuso, I., Amore, M. G., Ortis, A., Messina, A., Conoci, S., & Battiato, S. (2022). **Advanced eNose-driven pedestrian tracking pipeline for intelligent car driver assisting system: preliminary results.** Sensors, 22(2), 674.
- J9. Ortis A, Grisanti M, Rundo F, Battiato S. **A Benchmark Evaluation of Adaptive Image Compression for Multi Picture Object Stereoscopic Images.** Journal of Imaging. 2021; 7(8):160.
- J10. Tomaselli V, Battiato S, Ortis A, Cantone GG, Urso S, Polosa R. **Methods, Developments, and Technological Innovations for Population Surveys.** Social Science Computer Review. March 2021. doi:10.1177/0894439321994218
- J11. Allegra, D., Battiato, S., Ortis, A., Urso, S., Polosa, R. (2020). **A Review on Food Recognition Technology for Health Applications.** Health psychology research 8.3 172-187.
- J12. Ortis A, Caponnetto P, Polosa R, Urso S, Battiato S. **A Report on Smoking Detection and Quitting Technologies.** International Journal of Environmental Research and Public Health. 2020; 17(7):2614. Digital Health Section.
- J13. Ortis, A.; Farinella, G. M.; Battiato, S.: **Survey on Visual Sentiment Analysis**, IET Image Processing, 2020, DOI: 10.1049/iet-ipr.2019.1270. IET Digital Library, <https://digital-library.theiet.org/content/journals/10.1049/iet-ipr.2019.1270>.<sup>1</sup>
- J14. A. Ortis, G. M. Farinella, G. Torrisi and S. Battiato, **Exploiting objective text description of images for visual sentiment analysis.** Multimedia Tools and Applications (2020): 1-24. <https://doi.org/10.1007/s11042-019-08312-7>.
- J15. A. Ortis, G. M. Farinella and S. Battiato, **Predicting Social Image Popularity Dynamics at Time Zero**, In IEEE Access, vol. 7, pp. 171691-171706, 2019. doi:

<sup>1</sup> 2<sup>nd</sup> most downloaded paper of IET Image Processing Journal ([https://www.dmi.unict.it/ortis/awards/IET\\_IP\\_certificate.pdf](https://www.dmi.unict.it/ortis/awards/IET_IP_certificate.pdf)).

10.1109/ACCESS.2019.2953856.

- J16. Rundo, F., Ortis, A., Battiato, S., Conoci, S. **Advanced Bio-Inspired System for Noninvasive Cuff-Less Blood Pressure Estimation from Physiological Signal Analysis**. MDPI Computation 6.3 (2018): 46.
- J17. Rundo, F., Conoci, S., Banna, G. L., Ortis, A., Stanco, F., & Battiato, S. (2018). **Evaluation of Levenberg–Marquardt neural networks and stacked autoencoders clustering for skin lesion analysis, screening and follow-up**. IET Computer Vision, 12(7), 957-962.
- J18. Rundo, Francesco, Conoci, Sabrina, Ortis, Alessandro, Battiato, Sebastiano (2018). **An advanced bio-inspired photoplethysmography (PPG) and ECG pattern recognition system for medical assessment**. MDPI SENSORS, vol. 18.
- J19. Ortis, A., Farinella, G. M., D'Amico, V., Adesso, L., Torrisi, G., & Battiato, S. (2017). **Organizing egocentric videos of daily living activities**. Elsevier, Pattern Recognition, 72, 207-218.

### Patents

[US9183644B2] - S. Battiato, G. Di Giore, A. Ortis, F. Rundo – **Methods and Systems for treatment of Stereoscopic Images, corresponding Computer Programs Products, and Storage Carrier**.

US Patent US9183644B2 – Status: Granted (10 Nov 2015)

EU Patent TO2012A000647 – Status: Issued (09 Jan 15)

### Software Products

Author of software protected by copyright: "DISTANTIA" - Applicazione, metodi e sistemi per la rilevazione della distanza tra dispositivi.

### Proceedings

- P1. Spata, Massimo Orazio, et al. **A Cross Platform Mobile Application for Indoor Navigation**. Intelligent Systems Conference. Cham: Springer Nature Switzerland, 2024.
- P2. Spata, Massimo Orazio, et al. **A New Deep Learning Pipeline for Acoustic Attack on Keyboards**. Intelligent Systems Conference. Cham: Springer Nature Switzerland, 2024.
- P3. Fargetta, G., Ortis, A., Battiato, S., & Scrimali, L. R. M. (2024). **Analyzing Interactions in Donation-Based Live Streaming Platforms: A Multi-Leader-Follower Game Approach**.
- P4. Spata, M. O., Priano, L., Ortis, A., & Battiato, S. (2024, July). **A Cross Platform Mobile Application for Indoor Navigation**. In Intelligent Systems Conference (pp. 78-89). Cham: Springer Nature Switzerland.
- P5. Rondinella, Alessia, et al. **Enhancing Multiple Sclerosis Lesion Segmentation in Multimodal MRI Scans with Diffusion Models**. 2023 IEEE International Conference on Bioinformatics and Biomedicine (BIBM). IEEE, 2023.
- P6. Spata, Massimo Orazio, et al. **Deep learning algorithm for advanced level-3 inverse-modeling of silicon-carbide power MOSFET devices**. Workshop on Electronics Communication Engineering (WECE 2023). Vol. 12973. SPIE, 2024.
- P7. Hussain, Mazhar, et al. **Semantic food segmentation for health monitoring**. Fifteenth International Conference on Machine Vision (ICMV 2022). Vol. 12701. SPIE, 2023.
- P8. Giurato, Salvatore, Alessandro Ortis, and Sebastiano Battiato. **Real-Time Multiclass Face Spoofing Recognition Through Spatiotemporal Convolutional 3D Features**. International Conference on Image Analysis and Processing. Cham: Springer Nature Switzerland, 2023.
- P9. Grisanti, Marco, et al. **E-ELPV: Extended ELPV Dataset for Accurate Solar Cells Defect Classification**. Intelligent Systems Conference. Cham: Springer Nature Switzerland, 2023.
- P10. Napoli Spatafora, M. A., A. Ortis, and S. Battiato. **GLR: Gradient-Based Learning Rate Scheduler**. International Conference on Image Analysis and Processing. Cham: Springer Nature Switzerland, 2023.
- P11. Napoli Spatafora, M. A., et al. **Benchmarking of Blind Video Deblurring Methods on Long Exposure and Resource Poor Settings**. International Conference on Image Analysis and Processing. Cham: Springer Nature Switzerland, 2023.
- P12. Rondinella, A., et al. **Attention-based convolutional neural network for CT**

- scan COVID-19 detection.** 2023 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW). IEEE, 2023.
- P13. Lorenzo Carnevale, Alessandro Ortis, Giancarlo Fortino, Sebastiano Battiato, Massimo Villari (2022). **From Cloud-Edge to Edge-Edge Continuum: the Swarm-Based Edge Computing Systems.** Accepted at the The 7th IEEE Cyber Science and Technology Congress.
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- P17. Cauli, N., Ortis, A., & Battiato, S. (2022). **Fooling a Face Recognition System with a Marker-Free Label-Consistent Backdoor Attack.** In International Conference on Image Analysis and Processing (pp. 176-185). Springer, Cham.
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- P21. Devaram R.R., Ortis A., Battiato S., Bruna A.R., Tomaselli V. (2021) **Real-Time Thermal Face Identification System for Low Memory Vision Applications Using CNN.** In: Del Bimbo A. et al. (eds) Pattern Recognition. ICPR International Workshops and Challenges. ICPR 2021. Lecture Notes in Computer Science, vol 12665. Springer, Cham. [https://doi.org/10.1007/978-3-030-68821-9\\_44](https://doi.org/10.1007/978-3-030-68821-9_44)
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- P24. Battiato, S., Ortis, A., Trenta, F., Ascari, L., Politi, M., Siniscalco, C. (2020). **Detection and Classification of Pollen Grain Microscope Images.** CVPR Workshop on Computer Vision for Microscopy Image Analysis (CVMI).
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- P26. Ortis A., Farinella G.M., Battiato S. (2019) **Prediction of Social Image Popularity Dynamics.** In: Ricci E., Rota Bulò S., Snoek C., Lanz O., Messelodi S., Sebe N. (eds) Image Analysis and Processing – ICIAP 2019. ICIAP 2019. Lecture Notes in Computer Science, vol 11752. Springer, Cham.
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- P29. Ortis, A.; Farinella, G. and Battiato, S. (2019). **An Overview on Image Sentiment Analysis: Methods, Datasets and Current Challenges.** In Proceedings

of the 16th International Joint Conference on e-Business and Telecommunications - Volume 1: SIGMAP, ISBN 978-989-758-378-0, pages 290-300.

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- P32. G. Armano, S. Battiato, D. Bennato, L. Boratto, S. M. Carta, T. Di Noia, E. Di Sciascio, A. Ortis, D. Reforgiato (2018). **NewsVallum: Semantics-Aware Text and Image Processing for Fake News Detection system**. Proceedings of the 26th Italian Symposium on Advanced Database Systems.
- P33. S. Battiato, Giovanni M. Farinella, Filippo L. M. Milotta, A. Ortis, F. Stanco, V. D'Amico, L. Adesso, G. Torrisi (2017). **Organizing Videos Streams for Clustering and Estimation of Popular Scenes**. In Proceeding of International Conference on Image Analysis and Processing. ICIAP. LNCS Vol. 10484, Springer. Cham, 2017. p. 51-61.
- P34. S. Battiato, L. Cantelli, F. D'Urso, G. M. Farinella, L. Guarnera, D. Guastella, C. D. Melita, G. Muscato, A. Ortis, F. Ragusa, C. Santoro (2017). **A System for Autonomous Landing of a UAV on a Moving Vehicle**. In Proceeding of International Conference on Image Analysis and Processing. ICIAP. LNCS Vol. 10484, Springer, Cham, 2017. p. 129-139.
- P35. Cantelli, D. C. Guastella, C. D. Melita, G. Muscato, S. Battiato, F. D'Urso, G. M. Farinella, A. Ortis and C. Santoro (2017). **Autonomous Landing of a UAV on a Moving Vehicle for the MBZIRC**. In Proceeding of The 20th International Conference on Climbing and Walking Robots and Support Technologies for Mobile Machines, 2017 (p. 197). World Scientific.
- P36. M. Cavallo, E. Guardo, A. Ortis, M. Sapienza, and G. La Torre (2017). **Mass Events Monitoring Through Crowdsourced Media Analysis**. In proceedings of The Ninth International Conferences on Pervasive Patterns and Applications. PATTERNS 2017. Athens, Greece. (pp. 54-57). IARIA, 2017.
- P37. Ortis, A., Farinella, G. M., D'Amico, V., Adesso, L., Torrisi, G., & Battiato, S. (2016). **Organizing egocentric videos for daily living monitoring**. In proceedings of the ACM MM International Workshop on Lifelogging Tools and Applications (LTA '16). Association for Computing Machinery, New York, NY, USA, 45–54.
- P38. S. Battiato, G.M. Farinella, F.L.M. Milotta, A. Ortis, L. Adesso, A. Casella, V. D'Amico, G. Torrisi (2016). **The Social Picture**, In Proceedings of the 2016 ACM on International Conference on Multimedia Retrieval (ICMR '16). Association for Computing Machinery, New York, NY, USA, 397–400.
- P39. A. Ortis, G. M. Farinella, D. D'amico, L. Adesso, G. Torrisi, S. Battiato (2015). **RECFusion: Automatic Video Curation Driven by Visual Content Popularity**, In Proceedings of the 23rd ACM international conference on Multimedia (MM '15). Association for Computing Machinery, New York, NY, USA, 1179–1182.
- P40. Ortis, A., Battiato, S. (2015). **A New Fast Matching Method for Adaptive Compression of Stereoscopic Images**. In Three-Dimensional Image Processing, Measurement (3DIPM), and Applications – IS&T/SPIE Electronic Imaging. Vol. 9393. International Society for Optics and Photonics, 2015.
- P41. Ortis A., Rundo F., Di Giore G., Battiato S. (2013) **Adaptive Compression of Stereoscopic Images**. In: Petrosino A. (eds) Image Analysis and Processing – ICIAP 2013. ICIAP 2013. Lecture Notes in Computer Science, vol 8156. Springer, Berlin, Heidelberg.

## Projects Participation

2020 – now	Research collaboration Georgetown University (Washington) and Bocconi (Milan) on the prediction of popularity of social media contents related to the decision theory and behavioural studies.
2021 – now	Joint research agreement with Huawei Technologies Laboratory. Grenoble, FR
June 2022 – now	ARTES 5.0 Advanced Robotics and enabling digital TEchnologies & systems 5.0 – RESTART ITALY - EU Call DIGITAL-2021-EDIH-01.
April 2022 - now	Just Smart “Giustizia Smart: Strumenti e modelli per ottimizzare il lavoro dei giudici – JustSmart” PON “Governance e Capacità Istituzionale 2014-2020”. CUP B25F2200000001.
June 2018 – Dec 2021	ADAS+ - Sviluppo di Tecnologie e Sistemi Avanzati per la Sicurezza dell'Auto mediante piattaforme Advanced Driver Assistance System - PON Ricerca e Innovazione 2014-2020. <b>Partners:</b> STMicroelectronic ( <i>leading</i> ), UNICT, INST, DMNS, DMN-CNR IPCF, DMN-UNIPA, UNICP, Innovaal, INN-CNNR IMM, INN-MR&D, MTA Advanced Automotive Solution, IU.NET, IU-UNIBO, IU-UNIMORE.
2020 – now	MAMI-MED - La coorte Mamma&Bambino: un approccio Multisetoriale Alla salute Materno-Infantile Mediante valutazione dell'Esposoma nelle Donne - Piano di incentivi per la ricerca di Ateneo 2020/2022 (Pia.ce.ri.). <b>Inter-department project:</b> DGFI, CHIRMED, DMI, DEI.
July 2020 - now	EPIRADIOCLINF - Impatto di caratteristiche epidemiologiche, radiologiche, cliniche e molecolari nella diagnosi e nel management delle polmoniti COVID-19 – EPIRADIOCLINF: un approccio di studio integrato.
May 2019 - now	SATURN - Smart mAnufactURiNg – Progetto MISE PON Fabbrica Intelligente. <b>Partners:</b> STMicroelectronics ( <i>leading</i> ), Mediterranea Impianti, UNICT.
December 2019 – now	DL4HEALTH – Deep Learning for Health- PO FESR SICILIA 2014-2020 - Azione 1.1.5. <b>Partners:</b> Quipo ( <i>leading</i> ), Net Service, Delisa, Aucta Cognitio, Nextra Consulting, UNICT Poli, UNICT DMI, Cerid.
Begins on April 2020	SALIRE – Sound Algorithms for Low-latency Intelligent Recognition of Event - PO FESR SICILIA 2014-2020 - Azione 1.1.5. <b>Partners:</b> Trilogic srl ( <i>leading</i> ), Noviacom soc.coop., Medilink srl, UNICT.
October 2012 – May 2014	Farm.PRO - Design and development of a web based learning platform (Farm.PRO project – PO/FESR Misura 4.1.1.1 - <a href="http://iplab.dmi.unict.it/projects/farmpro">http://iplab.dmi.unict.it/projects/farmpro</a> ).

## In Charge of the Project's Research Activities

January 2024 - now	<b>Principal Investigator</b> SAFE-IA: Advanced Tools for Trustworthiness and Robustness of Artificial Intelligence Technologies – “Plano di inCentivi per la Ricerca di Ateneo 2020/2022 (PIACERI)”, Linea di Intervento 3 “Starting Grant”
September 2022 - now	<b>Principal Investigator</b> SALIRE - Sound Algorithms for Low-latency Intelligent Recognition of Events. POC 2014_2020_Azione 1.1.1
July 2019 - now	<b>Principal Investigator</b> (April 2021-now) - Eclat SRL - Food Recognition Technology – CoEHAR project founded by the Foundation for a Smoke-Free World (FSFW COE1-05).
July 2019 - now	SenseQuit: A novel smart smoking monitoring system – CoEHAR project founded by the Foundation for a Smoke-Free World (EG-008 EU-PATH_RFP).
December 2018	Eclat SRL – Evaluation of methods for automatic smoke activity detection.

### **Research and Development Consultant**

January 2019 – February 2019	Image Processing LABORatory – Machine learning for temporal data mining.
October 2018 – Nov 2018	iCtLab SRL - Design and development of video analysis algorithms.
Sept 2015 – Oct 2015	vEyes - virtual Eyes project – ONLUS - <a href="http://www.veyes.it/">http://www.veyes.it/</a> Design and development of object recognition algorithms on Android devices.
July 2015 – August 2015	INGV and University of Catania – Department of Mathematics and Computer Science. Research activity in the project “ <i>Multidisciplinary analysis of the relationships between tectonic structures and volcanic activity</i> ” (INGV-DPC 2012-2013).
January 2015 – July 2015	Telecom Italia – Joint Open Lab Wave (Wireless Applications in multi-deVice Ecosystems). Design and development of an automatic video curation algorithm driven by scene popularity. ( <i>Internship</i> ).
October 2011 – April 2012	ST Microelectronics – Catania Site (Italy). Development of a compression algorithm for stereoscopic images ( <b>patented</b> ). Development of a C library to handle and analyse Multi-Picture Object files (MPO) working on embedded ST systems. ( <i>Internship</i> ).

### TEACHING EXPERIENCE

Academic Year 2023/2024	<b>Adjunct Professor of Programmazione 2 [INF/01]</b> University of Catania – Degree Course in Computer Science
Academic Year 2022/2023	<b>Adjunct Professor of Statistical Laboratory [SECS-S/01]</b> University of Catania – Degree Course in Data Science for Management <b>Adjunct Professor of Programmazione 2 [INF/01]</b> University of Catania – Degree Course in Computer Science <b>Master Teaching</b> UPA – Master in Data Science for Digital Communication
Academic Year 2021/2022	<b>Visiting Lecturer (10-24 October 2021)</b> University of Hertfordshire - School of Physics Engineering and Computer Science, UK <b>Adjunct Professor of Statistical Laboratory [SECS-S/01]</b> University of Catania – Degree Course in Data Science for Management <b>Adjunct Professor of Programmazione 2 [INF/01]</b> University of Catania – Degree Course in Computer Science <b>University Master Course Teaching</b> University of Catania – First level Master’s Degree course on Cybersecurity & Defence: “ <i>Culture and Governance of Cybersecurity</i> ” <b>Master Teaching</b> UPA – Master in Data Science for Digital Communication

Academic Year 2020/2021	<p><i>University Master Course Teaching</i> University of Catania – First level Master’s Degree course on Cybersecurity &amp; Defence: “Cybersecurity &amp; Defence”.</p> <p><i>Master Teaching</i> UPA – Master in Data Science for Digital Communication</p> <p><i>Adjunct Professor of Programmazione 2 [INF/01]</i> University of Catania – Degree Course in Computer Science</p> <p><i>Adjunct Professor of Basics of Computing [INF/01]</i> University of Catania – Degree Course in Data Science for Management</p>
Academic Year 2019/2020	<p><i>Adjunct Professor of Statistical Laboratory [SECS-S/01]</i> University of Catania – Degree Course in Data Science for Management</p>
Academic Years since 2019/2020 to 2021/2022	<p><i>PhD Courses</i> Analysis of Social Media Contents (12 hours).</p> <p><i>PhD Students Tutorship</i></p>
Nov 2021 – now	<p>Maria Ausilia Napoli Spatafora – <i>PhD Candidate</i> <i>Efficient Facial Image Compression with Neural Networks</i></p>
Nov 2020– now	<p>Marco Grisanti – <i>PhD Candidate</i> Development of an integrated multitasking system for the collection, management and automatic processing and inference of heterogeneous multisource data.</p>
Nov 2020 – now	<p>Valerio Puglisi – <i>PhD Candidate</i></p>
Nov 2020 – now	<p>Salvatore Giurato – <i>PhD Candidate</i> Advanced Artificial Intelligence and Machine Learning algorithms for 5G Services in a multi-sensor data environments</p>
Jan 2020 – now	<p>Mazhar Hussain – <i>PhD Candidate</i> Research food recognition for dietary monitoring and health.</p>
Nov 2019 – now	<p>Tang Hongxiang – <i>PhD Candidate</i> Research on licence plate recognition on real world scenarios.</p>
	<p><i>Degree Thesis co-tutorship</i></p>
Academic Year 2020/2021	<p>Gabriele Raciti – <i>BD</i>: VAR e Fuorigioco: analisi tecnica e incertezza delle misure Daniela Campisi – <i>MD</i>: Transfer Learning Techniques for COVID-19 Severity Assessment</p>
Academic Year 2018/2019	<p>Federica Russo – <i>MD</i>: Geometric Distortion Correction for Projected Images Stefano Trepiccione – <i>MD</i>: Simulazione stazione di controllo Camera DOME mediante visore VR. Giovanni Martucci – <i>BD</i>: Sviluppo di sistemi di re-identification in ambito Smart City. Andrea Cammarata – <i>BD</i>: Rilevare le fake news con il NLP.</p>
Academic Year 2018/2019	<p><i>Qualified Tutor</i> Qualified tutor Activity for the course “Informatica 1” (20 hours), University of Catania</p>
Academic Year 2018/2019 Academic Year 2018/2019 Academic Year 2017/2018	<p><i>Tutor</i> Tutor Activity for the course “Informatica di base (A-L)” (28 hours), University of Catania Tutor Activity for the course “Informatica di base (M-Z)” (28 hours), University of Catania Tutor Activity for the course “Informatica 1” (20 hours), University of Catania</p>
Oct 2022 – Feb 2023	<p><i>Teaching Contract</i> Steve Jobs Academy - Teacher of the course “Programmazione 2” on C# (60 hours)</p>
April – May 2021	<p><i>Teaching Contract</i> Steve Jobs Academy - Teacher of the course “Data Analysis 2” (30 hours)</p>
May – June 2020	<p><i>Teaching Contract</i> Steve Jobs Academy - Teacher of the course “Data Analysis 2” (30 hours)</p>

10 June 2019 – 05 Jul 2019

*Teaching Contract*

TREE S.r.l. - Teacher for the course “Coding” on Java and OOP (28 hours)

12 Nov 2018 - 05 Dec 2018

*Teaching Contract*

TREE S.r.l. - Teacher for the course “Internet of Things” on Data Science (16 hours)

FURTHER INFORMATION

Mother Language

Italian

Other Languages

COMPRENSION		SPEAKING		WRITING
Listening	Reading	Interaction	Oral production	
B2	B2	B2	B2	B2

English

Nov. – Dec. 2015  
Nov. 2015 – May 2016

English Course “HOW TO WRITE IT” – writing scientific English (16 hours)  
English Course Level B1 (80 hours)

Computer Science Skills

Years experience in designing and developing image/video analysis and processing algorithms with Matlab, Python, Android and C/C++ for Computer Vision and Image Processing solutions, as well as Signal Analysis algorithms. Experience with Machine Learning and Deep Learning frameworks such as Caffe, Pytorch, TensorFlow and solid knowledge of Deep Learning architectures and learning algorithms. Solid programming languages knowledge: **C/C++**, **Java**, **Python**, R, Lua, web-based programming, functional programming, 2D and 3D graphics applications, 3D printing.

TALKS & SEMINARS  
Held at University courses

Sentiment Analysis & NLP– 25-Jan-19 – Social Media Management  
Social Image Platforms APIs – 31-Oct-18 – Social Media Management  
Long-Short Term Memory – 13-Jun-18 – Machine Learning  
Recommender Systems – 17-Jan-18 – Social Media Management  
Sentiment Analysis & NLP– 20-Dec-17 – Social Media Management  
Social Image Platforms APIs – 6-Nov-17 – Social Media Management  
Single-View Metrology – 25-May-16 – Computer Vision  
Stereovision & Epipolar Geometry – 04/20-Apr-16 – Computer Vision  
Artificial Neural Networks – 25-Jan-16 - Social Media Management

Talks for PhD students

Sequence to Sequence Learning with Neural Networks – 25/03/20 – University of Catania  
Generative Adversarial Networks – 25/03/19 – University of Catania  
Learning to forget (LSTM) – 14/05/18 – University of Catania  
Distributed representations of words (word2vec) – 12/12/16– University of Catania  
Ask Your Neurons: A Neural-based Approach to Answering Questions about Images – 11/03/16 – University of Catania.

Other Activities

Volunteer teacher for the project “Programma il futuro” (2016) for students of the Italian primary and secondary school.

Personal Data

*According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.*