Curriculum Vitae

Giovanni Bellitto

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1 Personal Information

- **Name:** Giovanni Bellitto
- **Nationality**: Italian
- **Email:** giovanni.bellitto@unict.it

2 Education and Professional Experience

2.1 Education

- **Ph.D. in Systems, Energy, Computer and Telecommunications Engineering**, University of Catania, awarded on 13/11/2023. Ph.D. thesis: "Neurocognitive-inspired Paradigms for Continual Learning". Supervisor: Prof. Concetto Spampinato (UNICT)
- **M.Sc. in Computer Engineering** from the University of Catania, awarded on 17/07/2020 with final grade 110/110 cum laude. Thesis: "Visual Saliency Assessment with Domain Adaptation through Gradient Reversal Layer."
- **B.Sc. in Computer Engineering** from the University of Catania, awarded on 26/07/2017 with final grade 110/110 cum laude. Thesis: "MAITRE: Web-application for hospital catering: dishes creation and daily-menu definition."
- **High School Diploma** (Diploma di Maturità) as Industrial Technical Expert, specialization in Computer Science, from the Istituto Tecnico Industriale "E. Fermi" (technical high school), Giarre (CT), Italy, with final grade 100/100.

2.2 Professional Experience

Jan 2024 - Present	**Assistant Professor** (Ricercatore a tempo determinato di tipo A, RTD-A, full-time, art. 24 c.3-a L. 240/10), scientific sector 09/H1, Department of Electrical, Electronic and Computer Engineering, University of Catania, Italy
Nov 2019 - May 2020	Intern at STMicroelectronics - ADG R&D - AI for Modeling and Predictive Reliability Team, Catania. Development of visual saliency prediction models for car-driving applications.
Dec 2016 - Jul 2017	Intern at SPLIT srl, Giarre (CT). Development of a web app for defining meal menus and for collecting, managing and processing meal reservations in hospitals.

2.3 Training and Research Periods at Foreign and International Universities and Research Institutes

Mar 2022 - Jun 2022 Visiting researcher at the Informatics Institute - VIS Lab (Video & Image Sense Lab), University of Amsterdam (UvA), The Netherlands. Research topic: "Batch-Based Knowledge Distillation through Visual Transformers", under the supervision of Prof. Efstratios Gavves.

3 Teaching Activities

3.1 University Teaching

3.1.1 Courses Taught

A.Y. 2025/2026

- Lecturer of **Fondamenti di Programmazione - Modulo I**, B.Sc. in "Computer Engineering" (L-8 R), University of Catania.
  ING-INF/05, 2 ECTS out of 6 ECTS in total (co-taught), 22 hours.

- Lecturer of **Fondamenti di Programmazione - Modulo II**, B.Sc. in "Computer Engineering" (L-8 R), University of Catania.
  ING-INF/05, 6 ECTS, 58 hours.

- Lecturer of **Deep Learning - Modulo Advanced Techniques and Applications**, M.Sc. in Data Science (LM-Data), University of Catania.
  INF/01, 3 ECTS out of 6 ECTS (co-taught), 21 hours.

- Lecturer of **Sistemi di elaborazione delle informazioni: formazione dell'immagine**, B.Sc. in "Medical Radiology, Imaging and Radiotherapy Techniques" (L/SNT3), University of Catania.
  ING-INF/05, 2 ECTS, 14 hours

A.Y. 2024/2025

- Lecturer of **Fondamenti di Programmazione - Modulo II**, B.Sc. in "Computer Engineering" (L-8), University of Catania.
  ING-INF/05, 6 ECTS, 58 hours.

- Lecturer of **Deep Learning - Modulo Advanced**, M.Sc. in "Data Science" (LM-Data), University of Catania.
  ING-INF/05, 4 ECTS out of 6 ECTS in total (co-taught), 28 hours.

A.Y. 2023/2024

- Lecturer of **Fondamenti di Programmazione - Modulo II**, B.Sc. in "Computer Engineering" (L-8), University of Catania.
  ING-INF/05, 6 ECTS, 58 hours.

- Lecturer of **Deep Learning**, M.Sc. in "Computer Engineering" (LM-32), University of Catania.
  ING-INF/05, 2 ECTS out of 6 ECTS in total (co-taught), 22 hours

A.Y.	Course	Degree	University	ECTS
2025/2026	Fondamenti di Programmazione - Modulo I	L-8 R	UNICT	2
2025/2026	Fondamenti di Programmazione - Modulo II	L-8 R	UNICT	6
2025/2026	Deep Learning - Advanced Techniques and Applications	LM-Data	UNICT	3
2025/2026	Sist. Elab. delle inf.: formazione dell'immagine	L/SNT3	UNICT	2
2024/2025	Fondamenti di Programmazione - M2	L-8	UNICT	6
2024/2025	Advanced deep Learning	LM-Data	UNICT	4
2023/2024	Fondamenti di Programmazione - M2	L-8	UNICT	6
2023/2024	Deep Learning	LM-32	UNICT	2
			Total	**31**

Table 1: Summary of ECTS credits for university courses.

3.1.2 Examination Boards

- **Member of the examination boards** in all exam sessions (at least 4 sessions per year) for the courses listed in Table 1.

3.1.3 Tutoring Activities

A.Y. 2022/2023 - Qualified tutor for "Advanced Machine Learning and Knowledge Discovery - modulo Knowledge Discovery", M.Sc. in Data Science for Management, University of Catania.
ING-INF/05, 60 hours.

A.Y. 2020/2021 - Qualified tutor for "Database and web Programming", B.Sc. in Computer Engineering (L-8), University of Catania.
ING-INF/05, 40 hours.

3.1.4 Student Supervision

- Supervisor (relatore) of 1 M.Sc. thesis in Data Science for Management, University of Catania.
- Supervisor (relatore) of 3 M.Sc. theses in Computer Engineering, University of Catania.
- Co-supervision of 10 M.Sc. theses in Data Science for Management, University of Catania.
- Co-supervision of 5 M.Sc. theses in Computer Engineering, University of Catania.
- Co-supervision of 2 B.Sc. theses in Computer Engineering, University of Catania.

3.2 Ph.D. Programmes

3.2.1 Supervision of Ph.D. Students

Cycle XLI

- **Co-supervisor** of the student Alessandro Strano on the topic "Sviluppo ed implementazione di modelli ibridi, basati su modelli elettrici ed algoritmi di machine learning/AI, relativi alla modellazione real-time dei comportamenti dei sistemi di accumulo elettrochimico di diversa tipologia basati su dati INTERNAL sperimentali prodotti in laboratorio o da impianti in operation e test delle relative performance/caratteristiche rispetto ai dati prodotti dai BMS associati" (Development and implementation of hybrid models, based on electrical models and machine learning/AI algorithms, for the real-time modelling of the behaviour of electrochemical energy storage systems of different types, based on INTERNAL experimental data produced in the laboratory or by plants in operation, and testing of their performance/characteristics against the data produced by the associated BMS) within the *Ph.D. Programme in Systems, Energy, Computer and Telecommunications Engineering*, University of Catania.

- **Co-supervisor** of the student Salvatore Longobardi on the topic "Eye-Tracking Regularized Vision-Language-Action Model" within the *Ph.D. Programme in Systems, Energy, Computer and Telecommunications Engineering*, University of Catania.

Cycle XL

- **Supervisor** of the student Giovanni Patanè on the topic "Adaptive Machine Learning Models: Paradigms for Efficiency, Privacy, and Application in the Medical Domain" within the *Italian National Ph.D. Programme in Artificial Intelligence, "Health and Life Sciences" area*, Campus Biomedico di Roma

- **Co-supervisor** of the student Alessio Masano on the topic "Emulating the Hippocampus for Improved Lifelong Learning Capabilities" within the *Ph.D. Programme in Systems, Energy, Computer and Telecommunications Engineering*, University of Catania.

4 Research Activities

4.1 Participation in National and International Research Projects

- Participant in the research project *"G.E.M.S. - Girls' Empowerment in Digital Skills"*. Programme: Erasmus+ - Action: KA220-HED - Cooperation partnerships in higher education (KA220-HED), CUP E66E25000020005. Role: comparative research on the motivational factors of young women in digital disciplines, identification of best practices, drafting of the EquiTeach guidelines for ICT content, and development of the project's communication and

dissemination strategy.

- Participant in the research project *"Bias-Free Artificial Intelligence methods for automated visual recognition: detecting human prejudice in visual annotations and mitigating its effects on models' learning (B-FAIR)"*, PRIN 2022 call (Research Projects of National Interest). Role: development of bias detection methods and study of de-biasing techniques for visual recognition models.

- Participant in the research project *"FAIR: Future Research on Artificial Intelligence"*, PNRR call (Italian National Recovery and Resilience Plan) PE_1: Intelligenza artificiale: aspetti fondazionali (Artificial Intelligence: foundational aspects). Role: research on neuro-inspired learning and deep learning methods for medical image analysis.

- Participant in the research project *"LEarning the Geometry of knOwledge in AI systems: LEGO.AI"*, PRIN 2020 call. Role: development of cognitive-science-inspired geometric regularization methods for continual learning and few-shot learning.

- Participant in the research project *"RehaStart: Ricerca e sviluppo di tecnologie e metodologie per l'implementazione di soluzioni di teleriabilitazione ad alta sostenibilità economica e sociale"* (Research and development of technologies and methodologies for implementing economically and socially sustainable tele-rehabilitation solutions), funded under the call "Azione 1.1.5 - Sostegno all'avanzamento tecnologico delle imprese attraverso il finanziamento di linee pilota e azioni di validazione precoce dei prodotti e di dimostrazioni su larga scala" (Action 1.1.5 - Support for the technological advancement of companies through the funding of pilot lines, early product validation actions and large-scale demonstrations) - P.O. FESR 2014/2020 - Sicily Region (ERDF Operational Programme 2014/2020). Role: design and development of deep learning methods for the monitoring and rehabilitation of patients with neurological injuries.

- Participant in the research project *"Biotrak: Definizione e qualificazione di un sistema innovativo di tracciabilità e certificazione di filiere zootecniche caratterizzate dall'utilizzo mangimistico di biomasse residuali del settore olivicolo"* (Definition and qualification of an innovative system for the traceability and certification of livestock supply chains based on the use of residual olive-sector biomass as animal feed), call "Azione 1.1.5 - Sostegno all'avanzamento tecnologico delle imprese attraverso il finanziamento di linee pilota e azioni di validazione precoce dei prodotti e di dimostrazioni su larga scala" (Action 1.1.5 - Support for the technological advancement of companies through the funding of pilot lines, early product validation actions and large-scale demonstrations) - P.O. FESR 2014/2020 - Sicily Region (ERDF Operational Programme 2014/2020). Role: monitoring and tracking of agricultural products through machine learning techniques.

- Participant in the project *"KD-ViT: Knowledge Distillation in Visual Transformers"* funded by the CINECA ISCRA call. Grant of 20000 GPU hours on a DGX machine.

4.2 Participation in Competitive Calls

- Participant in the research project *"coVLA: Coordinated vision-language-action modules for mobile manipulation"*, funded under the University of Catania call for Competitive Research

Projects "SYR-AI, Supporting Young Researchers through Artificial Intelligence" (Bando di Ateneo per il finanziamento di Progetti di Ricerca Competitivi). Role: development of VLA (Vision Language Action) models for autonomous indoor navigation.
Since 2026, ongoing.

- Participant in the research project *"AI-SEAT: AI-driven Human-Centred Design Framework for Predictive Modeling and Optimization of Automotive Seating Systems"*, funded under the University of Catania call for Competitive Research Projects "SYR-AI, Supporting Young Researchers through Artificial Intelligence" (Bando di Ateneo per il finanziamento di Progetti di Ricerca Competitivi). Role: development of AI models for identifying the geometric and biomechanical parameters underlying perceived comfort.
Since 2026, ongoing.

- Participant in the research project *"DIANA: Diagnosi intelligente assistita dei cancri delle piante arboree"* (Intelligent assisted diagnosis of cankers in tree crops), funded under the University of Catania call for Competitive Research Projects "SYR-AI, Supporting Young Researchers through Artificial Intelligence" (Bando di Ateneo per il finanziamento di Progetti di Ricerca Competitivi). Role: development of an XAI framework for the early assessment of fungal diseases of almond trees.
Since 2026, ongoing.

- Participant in the research project *"AIR-Giust: Intelligenza artificiale, regolazione e giustizia costituzionale"* (Artificial intelligence, regulation and constitutional justice), funded under the University of Catania call for Competitive Research Projects "SYR-AI, Supporting Young Researchers through Artificial Intelligence" (Bando di Ateneo per il finanziamento di Progetti di Ricerca Competitivi). Role: development of natural-language conversational query tools for retrieving legislative sources, case-law decisions and thematic links within legal content.
Since 2026, ongoing.

4.3 Scientific Responsibility for Research Projects

- **Principal Investigator** (Responsabile scientifico) of the Technology Transfer project *Smart-BARN: Bovine Air Quality and Resource-aware Network – Sistema AI per la stima di emissioni e benessere animale in stalle da latte* (AI system for estimating emissions and animal welfare in dairy barns), FAIR Technology Transfer call (Bando di Trasferimento Tecnologico, 2025).

4.4 Participation in National and International Research Groups

4.4.1 National Research Groups

- **[2019, ongoing] Member** of the Pattern Recognition and Computer Vision Laboratory (PeRCeiVe Lab), Department of Electrical, Electronic and Computer Engineering, University of Catania (http://www.perceivelab.com). Since 2025, PI of the "Neuro-Inspired Learning Strategies" research group.

- **[2020, ongoing] Research collaboration** with the AImageLab Laboratory, "Enzo Ferrari" Department of Engineering, University of Modena and Reggio Emilia, led by Prof. Simone

Calderara. Main research topics: Continual learning, Transfer knowledge.
Publications resulting from the collaboration:

- C12: Saliency-driven experience replay for continual learning.
- C25: Transfer without Forgetting.
- C26: Effects of Auxiliary Knowledge on Continual Learning.

- **[2022, ongoing] Research collaboration** with the Parallel Computing research group of the University of Turin, led by Prof. Marco Aldinucci. Main research topics: Federated Learning, Medical Image Analysis.
Publications resulting from the collaboration:
  - J7: A convolutional-transformer model for FFR and iFR assessment from coronary angiography.
  - J8: FedER: Federated Learning through Experience Replay and privacy-preserving data synthesis.
  - J10: An explainable AI system for automated COVID-19 assessment and lesion categorization from CT-scans.
  - C21: Experience replay as an effective strategy for optimizing decentralized federated learning.
  - C27: Neural Transformers for Intraductal Papillary Mucosal Neoplasms (IPMN) Classification in MRI images.

- **[2022, ongoing] Research collaboration** with the group of Prof. Andrea Prati, University of Parma. Main research topics: generative models applied to Continual Learning.

4.4.2 International Research Groups

- **[2025, ongoing] Research collaboration** with the Learning and Machine Perception (LAMP) Team led by Joost van de Weijer, Computer Vision Center, Universitat Autònoma de Barcelona, Spain. Main research topics: Continual Learning.

- **[2023, ongoing] Research collaboration** with the group of Prof. Changjae Oh, School of Electrical Engineering and Computer Science, Queen Mary University of London, UK. Main research topics: 6D pose estimation, continual learning in robotics.
Publications resulting from the collaboration:
  - C14. Incremental Object 6D Pose Estimation

- **[2022, ongoing] Research collaboration** with the research group of Prof. Efstratios Gavves, Informatics Institute - VIS Lab, University of Amsterdam (UvA), The Netherlands. Main research topics: Knowledge Distillation through Visual Transformers.
Publications resulting from the collaboration:
  - C15. Vito: Vision Transformer Optimization Via Knowledge Distillation On Decoders

- **[2022, ongoing] Research collaboration** with the Center for Research in Computer Vision, University of Central Florida, Orlando, Florida, USA, led by Prof. Mubarak Shah. Main research topics: explainable AI, prompt optimization.
Publications resulting from the collaboration:
  - J5. Diffexplainer: Towards cross-modal global explanations with diffusion models.
  - C2. DEXTER: Diffusion-Guided EXplanations with TExtual Reasoning for Vision Models.

- **[2020, ongoing] Research collaboration** with the Machine and Hybrid Intelligence Lab led by Prof. Ulas Bagci, Northwestern University of Chicago, Illinois, USA. Main research topics: deep neural networks for medical imaging analysis.
Publications resulting from the collaboration:

- J3: SAM-guided prompt learning for Multiple Sclerosis lesion segmentation.
- C11: Conditional visuo-textual prompt learning for medical image analysis.
- C20: A Privacy-Preserving Walk in the Latent Space of Generative Models for Medical Applications.
- C27: Neural Transformers for Intraductal Papillary Mucosal Neoplasms (IPMN) Classification in MRI images.
- C29: Hierarchical 3D Feature Learning for Pancreas Segmentation.
- C30: Deep Multi-stage Model for Automated Landmarking of Craniomaxillofacial CT Scans.

- [**2020 - 2023**] **Research collaboration** with the group of Prof. Kevin McGuinness, School of Electronic Engineering, Dublin City University, Dublin, Ireland. Main research topics: video saliency prediction, knowledge distillation.
  Publications resulting from the collaboration:
  - C24: TinyHD: Efficient Video Saliency Prediction with Heterogeneous Decoders using Hierarchical Maps Distillation.

4.5 Organization of and Talks at National and International Scientific Events

4.5.1 Organization of Scientific Events

- **General Chair** of the workshop "2nd Workshop on Multimodal Sign Language Recognition", held in conjunction with the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2026.

- **General Chair** of the special session "Privacy-Aware, Data-Efficient AI via Personalized Incremental and Federated Learning in Healthcare" at the IEEE International Symposium on Biomedical Imaging (ISBI), London (UK), April 10, 2026.

- **General Chair** of the workshop "1^{st} Multimodal Sign Language Recognition", held in conjunction with the International Conference on Computer Vision (ICCV) 2025, Honolulu, Hawaii (USA), October 20, 2025.

- **General Chair** of the workshop "PILM'25: Personalized Incremental Learning in Medicine", held in conjunction with the 33^{rd} ACM International Conference on Multimedia (ACM-MM) 2025.

- **General Chair** of the workshop "Breaking the Monolith: Advances in Modular Deep Learning", held in conjunction with the 23^{rd} International Conference on Image Analysis and Processing (ICIAP) 2025.

- **General Chair** of the workshop "PILM - Personalized Incremental Learning in Medicine", held in conjunction with the 27^{th} International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI) 2024.

- **General Chair** of the workshop "CL4Real: Novel Benchmarks and Approaches for Real-World Continual Learning", held in conjunction with the 21^{st} International Conference on Image Analysis and Processing (ICIAP2021).

4.5.2 Talks at Scientific Conferences and/or Research Institutions

- **Invited Talk** at the "AI in Astronomy Workshop" organized by the Italian National Institute for Astrophysics (INAF - Istituto Nazionale di Astrofisica), Catania 22/05/2025; talk title: "Deep Learning theory and application for astrophysics".

- **Speaker** at the IEEE International Conference on Image Processing (ICIP), 28/10/2024; talk title: "Vito: Vision Transformer Optimization Via Knowledge Distillation On Decoders".

- **Speaker** at the "1^{st} Workshop on Visual Continual Learning", held in conjunction with the "International Conference on Computer Vision" (ICCV 2023), 2/10/2023; talk title: Selective Freezing for Efficient Continual Learning.

- **Speaker** at the "1^{st} Workshop on Visual Continual Learning", held in conjunction with the "International Conference on Computer Vision" (ICCV 2023), 2/10/2023; talk title: *Experience Replay as an Effective Strategy for Optimizing Decentralized Federated Learning.*

- **Speaker** at the "26^{th} International Conference on Pattern Recognition" (ICPR 2022) (remote), 21-25/08/2022; talk title: *Effects of Auxiliary Knowledge on Continual Learning.*

4.6 Peer Review Activities

4.6.1 Journals

- IEEE Transactions on Multimedia

- IEEE Transactions on Neural Networks and Learning Systems

- Computer Vision and Image Understanding

4.6.2 International Conferences

- ACM Multimedia Conference (ACM-MM)

- IEEE/CVF International Conference on Computer Vision and Pattern Recognition (CVPR)

- International Conference on Learning Representations (ICLR)

- Annual Conference on Neural Information Processing Systems (NeurIPS)

- IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)

- IEEE/CVF International Conference on Computer Vision (ICCV)

- European Conference on Computer Vision (ECCV)

- International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)

- Asian Conference on Computer Vision (ACCV)

- International Conference on Image Analysis and Processing (ICIAP)

4.7 Technology Transfer

4.7.1 Patents

- G. M. De Ferrari, F. D'Ascenzo, O. De Filippo, M. Iannaccone, M. Aldinucci, J. M. Hughes, M. Millesimo, W. Grosso Marra, G. Quadri, F. Proietto Salanitri, **G. Bellitto**, C. Spampinato, R. Mineo, S. Palazzo. "Angiographic Image Processing method and System". EU Patent Nr. WO2025262634, 26.12.2025

4.7.2 Third-Party Research Contracts and Agreements

- Third-party research contract between ENEA and the University of Catania, entitled *Sviluppo e testing di algoritmi di Machine Learning probabilistico per la previsione della produzione energetica da impianto fotovoltaico* (Development and testing of probabilistic Machine Learning algorithms for forecasting the energy production of photovoltaic plants), within the project "MARTA"(CIG B288180045, CUP B89J23000880005). Role: development of Deep Learning models for probabilistic forecasting of photovoltaic production, applied to floating bifacial plants. Principal investigators: Prof. Giuseppe Marco Tina, Prof. Cristina Ventura.
  Resulting publications:
  - C9: Short-Term AC Power Forecasting for Floating Bifacial Photovoltaic Systems Using LSTM Networks.

4.8 Awards and Honours

- **Top 5%** and **Best Paper Award Candidate** for the paper "Vito: Vision Transformer Optimization Via Knowledge Distillation On Decoders" at the IEEE International Conference on Image Processing (ICIP), 2024.
- **Outstanding Reviewer Award**, European Conference on Computer Vision (ECCV), 2024.
- **Recipient of the** HPC-EUROPA3 **grant** to carry out research at the University of Amsterdam (UvA), The Netherlands.

4.9 Membership in Scientific Societies

- Member of the CVPL Society. CVPL is the Italian Association for research in Computer Vision, Pattern Recognition and Machine Learning. `https://www.cvpl.it/`
- Member of the Computer Vision Foundation.
- Member of the IEEE Society

5 Other Activities

5.1 Institutional Activities

- Additional member (membro aggregato) of the Examination Board of the State Examination for the professional qualification as Engineer (Esame di Stato, Sections A and B), University of Catania, 2025.

6 Publications

6.1 Journals with Impact Factor

For each journal, the Clarivate **impact factor**[1] and the Scimago **quartile and subject category** are reported[2]. Values refer to the year 2026.

J1. S. Calcagno, M. Pennisi, F. Proietto Salanitri, A. Sorrenti, S. Palazzo, C. Spampinato, **G. Bellitto**. *Dream2Learn: Structured Generative Dreaming for Continual Learning*. INTERNATIONAL JOURNAL OF COMPUTER VISION, 2026. DOI: 10.1007/s11263-026-02958-1
- **Impact factor**: 10.3
- **Scimago Quartile**: Q1 (Artificial Intelligence, Computer Vision and Pattern Recognition, Software)

J2. M. Moradi, M. Moradi, A. Borji, F. Proietto Salanitri, **G. Bellitto**, F. Rundo, S. Palazzo, C. Spampinato. *Learning long-and short-term dynamics for human attention prediction using large video models*. COMPUTER VISION AND IMAGE UNDERSTANDING, Volume 268, 2026. DOI: 10.1016/j.cviu.2026.104740
- **Impact factor**: 3.6
- **Scimago Quartile**: Q1 (Computer Vision and Pattern Recognition)

J3. F. Proietto Salanitri, **G. Bellitto**, S. Calcagno, U. Bagci, C. Spampinato, M. Pennisi. *SAM-guided prompt learning for Multiple Sclerosis lesion segmentation*. PATTERN RECOGNITION LETTERS, Volume 199, 2025. DOI: 10.1016/j.patrec.2025.11.018
- **Impact factor**: 3.5
- **Scimago Quartile**: Q1 (Computer Vision and Pattern Recognition)

J4. S. Calcagno, M. Finocchiaro, **G. Bellitto**, C. Spampinato, F. Proietto Salanitri. *Decoding attention from the visual cortex: fMRI-based prediction of human saliency maps*. PATTERN RECOGNITION LETTERS, Volume 199, 2025. DOI: 10.1016/j.patrec.2025.11.019
- **Impact factor**: 3.5
- **Scimago Quartile**: Q1 (Computer Vision and Pattern Recognition)

J5. M. Pennisi, **G. Bellitto**, S. Palazzo, I. Kavasidis, M. Shah, C. Spampinato, *Diffexplainer: Towards cross-modal global explanations with diffusion models*. COMPUTER VISION AND IMAGE UNDERSTANDING, Volume 262, 2025. DOI: 10.1016/j.cviu.2025.104559
- **Impact factor**: 3.6
- **Scimago Quartile**: Q1 (Computer Vision and Pattern Recognition, Software)

J6. A. Sorrenti, **G. Bellitto**, F. Proietto Salanitri, M. Pennisi, S. Palazzo, C. Spampinato. *Wake-sleep consolidated learning*. IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, Volume 36, 2025. DOI: 10.1109/TNNLS.2024.3458440
- **Impact factor**: 4.5
- **Scimago Quartile**: Q1 (Artificial Intelligence)

[1] https://clarivate.com/
[2] https://www.scimagojr.com/

J7. R. Mineo, F. Proietto Salanitri, **G. Bellitto**, I. Kavasidis, O. De Filippo, M. Millesimo, G. M. De Ferrari, M. Aldinucci, D. Giordano, S. Palazzo, F. D'Ascenzo, C. Spampinato, *A convolutional-transformer model for FFR and iFR assessment from coronary angiography*. IEEE TRANSACTIONS ON MEDICAL IMAGING, Volume 43, 2024. DOI: 10.1109/TMI.2024.3383283
- **Impact factor**: 12.4
- **Scimago Quartile**: Q1 (Computer Science Applications)

J8. M. Pennisi, F. Proietto Salanitri, **G. Bellitto**, B. Casella, M. Aldinucci, S. Palazzo, C. Spampinato, *FedER: Federated Learning through Experience Replay and privacy-preserving data synthesis*. COMPUTER VISION AND IMAGE UNDERSTANDING, Volume 238, 2024. DOI: 10.1016/j.cviu.2023.103882
- **Impact factor**: 3.6
- **Scimago Quartile**: Q1 (Computer Vision and Pattern Recognition)

J9. **G. Bellitto**, F. Proietto Salanitri, S. Palazzo, F. Rundo, D. Giordano, C. Spampinato, *Hierarchical Domain-Adapted Feature Learning for Video Saliency Prediction*. INTERNATIONAL JOURNAL OF COMPUTER VISION, Volume 129, 2021. DOI: 10.1007/s11263-021-01519-y
- **Impact factor**: 10.3
- **Scimago Quartile**: Q1 (Artificial Intelligence, Computer Vision and Pattern Recognition, Software)

J10. M. Pennisi, I. Kavasidis, C. Spampinato, V. Schinina, S. Palazzo, F. Proietto Salanitri, **G. Bellitto**, F. Rundo, M. Aldinucci, M. Cristofaro, P. Campioni, E. Pianura, F. Di Stefano, A. Petrone, F. Albarello, G. Ippolito, S. Cuzzocrea, S. Conoci, *An explainable AI system for automated COVID-19 assessment and lesion categorization from CT-scans*. ARTIFICIAL INTELLIGENCE IN MEDICINE, Volume 118, 2021. DOI: 10.1016/j.artmed.2021.102114
- **Impact factor**: 7.8
- **Scimago Quartile**: Q1 (Artificial Intelligence)

6.2 International Conference Proceedings

C1. R. Mineo, A. Sorrenti, G. Caligiore, F. Proietto Salanitri, **G. Bellitto**, S. Polikovsky, S. Fontana, E. Ragonese, C. Spampinato, S. Palazzo. *A benchmark for radar-based Italian sign language recognition using frequency-domain range-time maps*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR). Denver, USA. June 3-7, 2026.

C2. S. Carnemolla, M. Pennisi, S. Samarasinghe, **G. Bellitto**, S. Palazzo, D. Giordano, M. Shah, C. Spampinato, *DEXTER: Diffusion-Guided EXplanations with TExtual Reasoning for Vision Models*. 39^{th} Annual Conference on Neural Information Processing Systems (NeurIPS). San Diego, USA. December 2-7, 2025.
- **Rating GII-GRIN-SCIE: Class 1, Rating A++**

C3. R. Mineo, **G. Bellitto**, F. Proietto Salanitri, R. Hendrix, C. Spampinato, S. Palazzo. *Learning Joint Text and Visual Tokens in CLIP for Medical Image Analysis*. 2^{nd} International Workshop on Multimedia Computing for Health and Medicine. Dublin, Ireland. October 28, 2025.

C4. G. Patanè, A. Sorrenti, **G. Bellitto**, S. Palazzo. *Continual learning strategies for personalized mental well-being monitoring from mobile sensing data*. International Workshop on Personalized Incremental Learning in Medicine. Dublin, Ireland. October 28, 2025.

C5. R. Hendrix, G. Patanè, L. Russo, S. Carnemolla, F. Proietto Salanitri, **G. Bellitto**, C. Spampinato, M. Pennisi. *Pre-Forgettable Models: prompt learning as a native mechanism for unlearning*. 33^{rd} ACM International Conference on Multimedia. Dublin, Ireland. October 27-31, 2025.
- **Rating GII-GRIN-SCIE: Class 1, Rating A++**

C6. R. Mineo, A. Sorrenti, G. Caligiore, F. Proietto Salanitri, **G. Bellitto**, S. Polikovsky, S. Fontana, E. Ragonese, C. Spampinato, S. Palazzo. *Text-aligned radar-based sign language recognition for healthcare communication.* IEEE/CVF International Conference on Computer Vision Workshops (ICCVW). Honolulu, USA. October 19-23, 2025.

C7. A. Sorrenti, **G. Bellitto**, S. Calcagno, R. Hendrix, C. Spampinato, S. Palazzo. *B-Cos Networks as an Architectural Inductive Bias for Mitigating Catastrophic Forgetting*. IEEE/CVF International Conference on Computer Vision Workshops (ICCVW). Honolulu, USA. October 19-23, 2025.

C8. H. Luqman, R. Mineo, M. Aljubran, A. A. Hasanaath, A. Sorrenti, S. Alyami, S. Al-Azani, M. Alowaifeer, J. Moon, V. Javorek, T. Železný, M. Hruz, G. Caligiore, S. Giancola, S. Polikovsky, M. Alfarraj, S. Fontana, M. Mahmud, M. H. Khan, K. Islam, S. Gurbuz, E. Ragonese, **G. Bellitto**, F. Proietto Salanitri, C. Spampinato, S. Palazzo. *The SignEval 2025 Challenge at the ICCV Multimodal Sign Language Recognition Workshop: Results and Discussion*. Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV). Honolulu, USA. October 19-23, 2025.

C9. C. Ventura, G. M. Tina, **G. Bellitto**, C. Spampinato, S. Ferlito, C. Di Francia. *Short-Term AC Power Forecasting for Floating Bifacial Photovoltaic Systems Using LSTM Networks*. International Conference on Sustainability in Energy and Buildings (SEB). Catania, Italy, September 17-19, 2025.

C10. A. Masano, M. Pennisi, F. Proietto Salanitri, C. Spampinato, **G. Bellitto**. *Zero-shot decentralized federated learning*. International Joint Conference on Neural Networks (IJCNN). Rome, Italy. June 30 - July 5, 2025.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C11. R. Mineo, **G. Bellitto**, F. Proietto Salanitri, R. Hendrix, U. Bagci, D. Giordano, C. Spampinato, S. Palazzo. *Conditional visuo-textual prompt learning for medical image analysis*. IEEE 22^{nd} International Symposium on Biomedical Imaging (ISBI). Houston, USA. April 14-17, 2025.
- **Rating GII-GRIN-SCIE: Class 3, Rating B**

C12. **G. Bellitto**, F. Proietto Salanitri, M. Pennisi, M. Boschini, L. Bonicelli, A. Porrello, S. Calderara, S. Palazzo, C. Spampinato. *Saliency-driven experience replay for continual learning*. 38^{th} Annual Conference on Neural Information Processing Systems (NeurIPS). Vancouver, Canada, December 10-15, 2024.
- **Rating GII-GRIN-SCIE: Class 1, Rating A++**

C13. L. Palazzo, M. Pennisi, F. Proietto Salanitri, **G. Bellitto**, S. Palazzo, C. Spampinato. *FedRewind: Rewinding Continual Model Exchange for Decentralized Federated Learning.* 27^{th} International Conference on Pattern Recognition (ICPR). Kolkata, India. December 1-5, 2024.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C14. L. Tian, A. Sorrenti, Y. L. Pang, **G. Bellitto**, S. Palazzo, C. Spampinato, C. Oh. *Incremental Object 6D Pose Estimation.* 27^{th} International Conference on Pattern Recognition (ICPR). Kolkata, India. December 1-5, 2024.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C15. **G. Bellitto**, R. Sortino, P. Spadaro, S. Palazzo, F. Proietto Salanitri, G. Fiameni, E. Gavves, C. Spampinato. *Vito: Vision Transformer Optimization Via Knowledge Distillation On Decoders.* IEEE International Conference on Image Processing (ICIP). Abu Dhabi, UAE. October 27-30, 2024.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C16. C. Delle Castelle, F. Spampinato, F. Proietto Salanitri, **G. Bellitto**, C. Spampinato. *Leveraging SAM and Learnable Prompts for Pancreatic MRI Segmentation.* International Workshop on Personalized Incremental Learning in Medicine. Marrakesh, Morocco. October 10, 2024.

C17. F. Rizza, **G. Bellitto**, S. Calcagno, S. Palazzo. *Exploring wearable emotion recognition with transformer-based continual learning.* International Workshop on Personalized Incremental Learning in Medicine. Marrakesh, Morocco. October 10, 2024.

C18. R. Mineo, F. Proietto Salanitri, **G. Bellitto**, O. De Filippo, F. D'Ascenzo, S. Palazzo, C. Spampinato. *Coronary Artery Stenosis Assessment in X-Ray Angiography Through Spatio-Temporal Attention for Non-Invasive FFR and iFR Estimation.* 17^{th} International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC). Rome, Italy, February 21–23, 2024.

C19. F. Proietto Salanitri, **G. Bellitto**, R. Mineo, M. Pennisi, A. Sorrenti, S. Calcagno, D. Giordano, S. Palazzo, C. Spampinato. *Dynamic graph attention: unraveling spatio-temporal synchrony in EEG data.* IEEE International Conference on Bioinformatics and Biomedicine (BIBM). Istanbul, Turkiye. December 5-8, 2023.

C20. M. Pennisi, F. Proietto Salanitri, **G. Bellitto**, S. Palazzo, U. Bagci, C. Spampinato. *A privacy-preserving walk in the latent space of generative models for medical applications.* International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI). Vancouver, Canada. October 8-12, 2023.
- **Rating GII-GRIN-SCIE: Class 2, Rating A**

C21. M. Pennisi, F. Proietto Salanitri, **G. Bellitto**, C. Spampinato, S. Palazzo, B. Casella, M. Aldinucci. *Experience replay as an effective strategy for optimizing decentralized federated learning.* IEEE/CVF International Conference on Computer Vision Workshops (ICCVW). Paris, France. October 2-6, 2023.

C22. A. Sorrenti, **G. Bellitto**, F. Proietto Salanitri, M. Pennisi, C. Spampinato, S. Palazzo. *Selective freezing for efficient continual learning.* IEEE/CVF International Conference on Computer Vision Workshops (ICCVW). Paris, France. October 2-6, 2023.

C23. L. Palazzo, M. Pennisi, **G. Bellitto**, I. Kavasidis, *FeDZIO: Decentralized Federated Knowledge Distillation on Edge Devices.* 22^{nd} International Conference on Image Analysis and Processing (ICIAP) Workshops. Udine, Italy. September 11-15, 2023.

C24. F. Hu, S. Palazzo, F. Proietto Salanitri, **G. Bellitto**, M. Moradi, C. Spampinato, K. McGuinness, *TinyHD: Efficient Video Saliency Prediction with Heterogeneous Decoders using Hierarchical Maps Distillation.* IEEE/CVF Winter Conference on Applications of Computer Vision (WACV). Waikoloa, Hawaii, USA. January 3-7, 2023.
- **Rating GII-GRIN-SCIE: Class 2, Rating A**

C25. M. Boschini, L. Bonicelli, A. Porrello, **G. Bellitto**, M. Pennisi, S. Palazzo, C. Spampinato, S. Calderara, *Transfer without Forgetting.* European Conference on Computer Vision (ECCV). Tel Aviv, Israel. October 23-27, 2022.
- **Rating GII-GRIN-SCIE: Class 1, Rating A++**

C26. **G. Bellitto**, M. Pennisi, S. Palazzo, L. Bonicelli, M. Boschini, S. Calderara, *Effects of Auxiliary Knowledge on Continual Learning.* 26^{th} International Conference on Pattern Recognition (ICPR). Montréal, Québec, Canada. August 21-25, 2022.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C27. F. Proietto Salanitri, **G. Bellitto**, S. Palazzo, I. Irmakci, M. B. Wallace, C. W. Bolan, M. Engels, S. Hoogenboom, M. Aldinucci, U. Bagci, D. Giordano, C. Spampinato, *Neural Transformers for Intraductal Papillary Mucosal Neoplasms (IPMN) Classification in MRI images.* 44^{th} Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC). Glasgow, Scotland, UK. July 11-15, 2022.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

C28. F. Rundo, R. Leotta, F. Trenta, **G. Bellitto**, F. Proietto Salanitri, V. Piuri, A. Genovese, R. Donida Labati, F. Scotti, C. Spampinato, S. Battiato, *Advanced car driving assistant system: A deep non-local pipeline combined with 1D dilated CNN for safety driving.* International Conference on Image Processing and Vision Engineering. Berlin, Germany, December 25-26, 2021.

C29. F. Proietto Salanitri, **G. Bellitto**, I. Irmakci, S. Palazzo, U. Bagci, C. Spampinato, *Hierarchical 3D Feature Learning for Pancreas Segmentation.* 12^{th} International Workshop on Machine Learning in Medical Imaging (MLMI). Virtual. September 27, 2021.

C30. S. Palazzo, **G. Bellitto**, L. Prezzavento, F. Rundo, U. Bagci, D. Giordano, R. Leonardi, C. Spampinato, *Deep Multi-stage Model for Automated Landmarking of Craniomaxillofacial CT Scans.* 25^{th} International Conference on Pattern Recognition (ICPR). Virtual. January 10-15, 2021.
- **Rating GII-GRIN-SCIE: Class 2, Rating A-**

6.3 Scientific Book Series

[LN1] F. Proietto Salanitri, S. Viriri, U. Bagci, P. Tiwari, B. Gong, C. Spampinato, S. Palazzo, **G. Bellitto**, N. Zlatintsi. Artificial Intelligence in Pancreatic Disease Detection and Diagnosis, and Personalized Incremental Learning in Medicine. Lecture Notes in Computer Science, vol 15197. 2024.

6.4 Bibliometrics

- Google Scholar: `https://scholar.google.it/citations?user=5X6QO-kAAAAJ&hl=en`
- Scopus: `https://www.scopus.com/authid/detail.uri?authorId=57221158503`

Overall Scientific Production	
Total number of journal publications with IF	10
Scimago quartile Q1	10
Scimago quartile Q2	–
Scimago quartile Q3	–
Scimago quartile Q4	–
Total number of conference publications	30
Average number of journal publications per year (2021-2026)	1.7
Average number of publications per year (2021-2026)	6.7

Table 2: Summary of the overall scientific production. Values as of **September 28, 2026.**

Indices	
Total number of citations (source: Scopus)	346
Total number of citations (source: Google Scholar)	615
Average number of citations per publication (source: Scopus)	9.9
Average number of citations per publication (source: Google Scholar)	20.5
Total journal impact factor	63.1
Average impact factor per publication	6.3
h-index (source: Scopus)	10
h-index (source: Google Scholar)	14

Table 3: Bibliometric indices as of **September 28, 2026.**