CURRICULUM VITAE

Working Experience

Period	June 2025 – current
Employer	Artificial Intelligence Venture Builder
Business framework	Information Technology and Machine Learning
Position	Contractor
Main responsibilities	Senior Data Scientist and Machine Learning Engineer
List of relevant activities	Within the Artificial Intelligence Venture Builder, I leverage my expertise across multiple cutting-edge AI domains, contributing to projects involving advanced Machine Learning architectures, Retrieval-Augmented Generation (RAG) systems, and Knowledge Graph integration for enhanced Data Analysis, Inference, and Computer Vision applications. Additionally, I actively collaborate on the development and implementation of Agentic AI frameworks, focusing on autonomous, goal-driven agents capable of complex decision-making. My work extends to Agentic Orchestration, where I design and optimize multi-agent workflows to enhance scalability, adaptability, and efficiency in dynamic environments. Furthermore, I specialize in architecting RAG-powered conversational AI systems, integrating dynamic retrieval mechanisms with generative language models to enable context-aware, knowledge-grounded dialogue interfaces. These solutions emphasize real-time semantic retrieval, multi-turn reasoning, and domain-adaptive response generation, ensuring high precision in enterprise knowledge dissemination and user interactions. Relevant technologies: Git, Docker, Unit Testing, PySpark, Databricks, Hugging Face Transformers, NumPy, Pandas, PyArrow, NLTK, spaCy, BigQuery, TensorFlow, PyTorch, Keras, Scikit-learn, Vector Database, Knowledge Graph, Computer Vision (Pillow, Scikit Image, etc.)

Period	March 2025 – September 2025
Employer	Aubay Italia
Business framework	Information Technology and Machine Learning
Position	Contractor
Main responsibilities	Senior Data Scientist and Machine Learning Engineer
List of relevant activities	Contributed to AI-driven transformation of big international companies (e.g., CNH, Sorgenia, Fincantieri) to modernize information systems through AI in enterprise environments by combining business consulting and cutting-edge ML technologies. ● Agentic AI systems leveraging Generative AI, both with low-code tools (Microsoft Copilot Studio, Power Automate) and custom solutions using Python ● Intelligent agents using DSPy, PandasAI, Hugging Face Transformers, and orchestrated workflows with Azure Functions and FastAPI ● Integrated solutions with Microsoft Azure ecosystem, ensuring scalable and secure deployments

	Other relevant technologies: Docker, Generative AI, Agentic Orchestration, DSPy, PandasAI, Python, FastAPI, Hugging Face Transformers, PyTorch, TensorFlow, NumPy, Pandas, Microsoft Copilot Studio, Microsoft Power Automate, Azure Functions, SharePoint, Azure DevOps.
Period	December 2024 – June 2025
Employer	Pi School - European Space Agency
Business framework	Education, Information Technology and Machine Learning
Position	Contractor
Main responsibilities	Senior Data Scientist and Machine Learning Engineer
List of relevant activities	Project: EVE (Earth Virtual Expert), in cooperation with European Space Agency: ● Contributing to the development of a Large Language Model (LLM) specialized in Earth Observation. ● Designing and implementing software for web scraping and crawling from diverse data sources. ● Managing the ETL (Extract, Transform, Load) process to ensure efficient and accurate data integration. Mentor of "Pi School in AI".
Period	January 2024 – December 2024
Employer	SMarT srl - InfoCert - Ministero delle Infrastrutture e dei Trasporti, Motorizzazione Civile
Business framework	Information Technology and Machine Learning
Position	Contractor
Main responsibilities	Senior Data Scientist and Machine Learning Engineer
List of relevant activities	In SMarT srl, partnering with InfoCert and Italian Ministry of Infrastructure and Transport, I provided my skills, experiences and expertise to create AI-based infrastructures for document classification, document understanding and information extraction. In an AWS based infrastructure, I created the product from scratch by using Python and comparing the most modern technologies like Yolo and Donut (Document Understanding Transformer) with some advanced AWS Services like AWS Rekognition, AWS Textractor, AWS Bedrock, AWS Comprehend. I used AWS Lambda and AWS API Gateway to expose the final endpoint in a serverless solution. When implementing ML-based solutions, I worked with modern libraries like Boto3, Ultralytics, NumPy, Pandas, OpenCV, Scikit-learn, Pytorch, Tensorflow, Apache Spark, Pillow, PyMuPDF. Moreover, I created a Langchain based system to manage multiple RAGs, customizable on the aspects of prompts, LLMs and extendable with plugins. A number of API endpoints are available to expose the configurations, customizations and document ingestions.
Period	January 2024 – April 2024
Employer	Business Partner Integration / Essilor-Luxottica
Business framework	Information Technology and Machine Learning

Position	Contractor
Main responsibilities	Senior Data Scientist and Machine Learning Engineer
List of relevant activities	In BIP Consulting, I provided my skills, experiences and expertise to create AI-based infrastructures with the following applications: - Clinical Code Recommender - Patient Visit Recommendation - Incorrect Refraction Correction - Condition triaging / classification - Summary of patient's condition - Identification of pathologies from medical images. Final customer: Essilor Luxottica. As a Senior Data Scientist and Machine Learning Engineer, I cooperated in all the applications of AI-based solutions. I used the most modern technologies: Natural Language Processing; Transformers and Tokenizers (e.g. Llama, BioGPT, Mistral, BioMistral); Convolutional / Recurrent Neural Networks; Support Vector Machines; Supervised, Unsupervised and Semi-supervised training; OpenAI API interfaces. When implementing ML-based solutions, I worked with modern libraries like Ultralytics, NumPy, Pandas, OpenCV, Scikit-learn, Pytorch, Tensorflow, Apache Spark. I implemented my models within Azure Databricks clusters, working with Models, Catalogs, Workspaces, Endpoints etc. Cooperating in the implementation of CI/CD pipelines on Azure DevOps, I worked by using MLFlow and Spark.
Period	January 2024 – March 2024
Employer	Wefox
Business framework	Information Technology
Position	Consultant
Main responsibilities	Senior Architectural Engineer
List of relevant activities	Wefox is a leading European insurtech company, founded in Berlin in 2015 and currently with 8 offices, over 1,200 employees and 3,000 consultants in 5 countries. As a Senior Architectural Engineer, Wefox asked me to provide a suitable solution for scalability of both HTTP nodes and asynchronous workers. I refactored their docker-based architecture (in order to have multi-step image building) and the GitLab actions governing the deployment pipeline. I cooperated in the re-organisation of the AWS ECS (Elastic Container Service), ECR (Elastic Container Registry) and ELB (Elastic Load Balancing) services.
Period	April 2023 – December 2023
Employer	MotorK
Business framework	Information Technology
Position	Permanent
Main responsibilities	Senior Backend and Machine Learning Engineer
List of relevant activities	MotorK is a technology company with strong roots in the automotive industry.

As a Senior Backend Engineer, I participated in the evolution of LeadSpark, a CRM platform specifically designed for Automotive Industry activities. LeadSparK is the best CRM for Lead Generation, Management and Nurturing activities. I worked with NodeJS, PHP, Kafka, RabbitMQ, GraphQL, mySQL, Redis.

As a Senior Machine Learning Engineer, I participated and coordinated the creation from scratch of an Artificial Intelligence based product, working with Image Vision and Natural Language in the new frontiers of the automotive industry. I was responsible to:

- build AI-based Image Processing algorithms;
- build LLM based solutions by using the OpenAI APIs;
- integrate the AI-based Image processing algorithms with LLM based features in order to have integrated information about automotive products;
- implement the Python-based backend with API endpoints (plus the usage of solutions based on Kafka and RabbitMQ), exposing endpoints by FastAPI and Uvicorn and building event-based flows on threads;
- participate to the implementation of Admin Dashboards based on VueJs 3;
- supervise and co-operate to the implementation of Unit, Integration and Feature tests based on Pytest and Behave (plus Gherkin);
- create the Docker infrastructures for the different environments (dev, staging and production);
- create the CI/CD pipelines, based on Jenkins (jobs governed by Groovy scripts), Spinnaker, Kubernetes (with YAML Helm Charts), for building and deploying docker images on AWS cluster, for both production and staging environments.

When implementing ML-based solutions, I worked with modern libraries like NumPy, Pandas, OpenCV, Scikit-learn, Pytorch, Tensorflow.

Period	October 2022 – March 2023
Employer	TheFork
Business framework	Information Technology
Position	Permanent
Main responsibilities	Senior Fullstack Software Engineer
List of relevant activities	TheFork is the leader in online restaurant bookings in Europe and Australia. I worked in the tribe devoted to Payment experience and to the interfacing of the TheFork ecosystem with external POSes. My tasks were also focused on analysis of the status of the platform, its optimization and implementation of new features, including end-to-end tests. I participated in architectural decisions. I worked with NodeJS, ReactJs, Cucumber and Gherkin, GraphQL, Cypress, Jest, PostgreSQL, Redis, RabbitMQ, Kibana (ElasticSearch), Graphana, NewRelic, Rundeck, AWS-based infrastructures and different services, including RDS, S3, Cloudwatch, Load balancers, IAM, and more.

Period	May 2022 – September 2022
Employer	Supermoney SpA
Business framework	Information Technology
Position	Permanent

Main responsibilities	Senior Full Stack Engineer
List of relevant activities	Supermoney SpA is a web provider comparing tariffs for energy, online insurance, mortgages and loans, Internet connections and pay TV. I worked in the development of Direct Intelligence, an internal platform used by call centres of the group to handle the inbound and outbound calls. I worked on the implementation of the platform as a Senior Full Stack Engineer, with Typescript, ReactJs (Redux), mySQL, Redis, Symfony, self-implemented web socket based on NodeJS and local tunnelling, AWS-based infrastructures and different services, including RDS, S3, Cloudwatch, Load balancers, IAM, and more. I specialised in the use of, as well as the interface to, Twilio.
Period	March 2022 - July 2022
Employer	Adeva Ltd
Business framework	Consulting
Position	Freelance
Main responsibilities	Test and Senior Full Stack Engineer. Working with Laravel and ReactJs. AWS-based infrastructures and different services, including RDS, S3, Cloudwatch, Load balancers, IAM, and more
List of relevant activities	Implementation of the test environment for the Web platform www.givebutter.com.
Period	March 2022 – April 2022
Employer	University of Turin
Business framework	Academic Institution
Position	Post-doc fellow
Main responsibilities	Senior Full Stack Engineer
List of relevant activities	Cooperating in the development of FirstLife, an open-source platform developed by the Computer Science department of University of Turin, implemented by modern technologies like Typescript, NodeJs, AngularJs, GraphQL, MongoDB. I have worked on the implementation of Backoffice, with AngularJs, NodeJs and MongoDB.
Period	April 2021 – January 2022
Employer	Advisera Expert Solution Ltd
Business framework	Consulting on ISO and other Standards
Position	Team Leader
Main responsibilities	Team Leader of the Web development team, with full stack skills and competences
List of relevant activities	My principal activities in Advisera: Senior Full Stack Engineer, Team Leader, Scrum Master, Web development, PHP, VueJs, Laravel, Technical and Managerial coordination of the activities of the development team. I led the Engineering Team, stabilising the platform by introducing the culture of tests and so reducing the impact of bugs by 80%. During my cooperation with Advisera, the performance of the platform increased by 35%.

	I worked with AWS-based infrastructures and different services, including RDS, S3, Cloudwatch, Load balancers, IAM, and more.
Period	April 2020 – June 2020
Employer	Cleoo Ltd.
Business framework	Digital Marketing
Position	Senior full stack Engineer
Main responsibilities	Member of IT & Scrum team
List of relevant activities	Development and maintenance of a financial management platform. About the involved technologies, please refer to the portfolio.
Period	December 2019 – March 2022
Employer	Katipult Inc.
Business framework	Capital Raising, Crowdfunding
Position	Contractor - Member of the IT team
Main responsibilities	Senior full stack Engineer
List of relevant activities	Katipult provides investment dealers, wealth management firms, and banks with digital tools to facilitate the creation, launch and closing of private capital deals. I worked as Senior full stack Engineer and Team Leader in Web development. Involved technologies: PHP, VueJs, Laravel, CakePHP, Javascript, jQuery. I worked with AWS-based infrastructures and different services, including RDS, S3, Cloudwatch, Load balancers, IAM, and more
Period	May 2015 – October 2019
Employer	--
Business framework	IT Consulting
Position	Senior Software Engineer, Contractor
List of relevant activities	Analysis, implementation and deployment of a number of SaaS and PaaS in different frameworks like Finance, Real Estate, Health Caring and so forth. For more information, please check my portfolio at (https://tinyurl.com/yy79y7k8) Relevant technologies used: PHP, Symfony, Laravel, RabbitMQ, Typescript, Kafka, Kubernetes, Vue.js, React.js, AWS services, Azure Services (e.g. Databricks, Data Factory)
Period	October 2014
Employer	King Fahd University of Petroleum and Minerals
Business framework	Research and Development
Position	Technical and scientific consultant
Main responsibilities	Consulting and evaluation of the following projects: code “SRC, JF141-SE-15” - “An optimization based approach for the blind signal separation problem under new sparsity assumptions”; code “RG141-SE-25” – “Multi-Model Approach in The Diagnostic and Health Monitoring of Large Systems”
Period	November 2009 – August 2010

Employer	King Fahd University of Petroleum and Minerals
Business framework	Research and Development
Position	Technical and scientific consultant
Main responsibilities	Consulting and evaluation of the project “Performance of IP Telephony (IPT) over KFUPM Wireless Networks: Further Investigations and Suggestions for Improvements”

Period	February 2009
Employer	Universidade de Aveiro (UA) Campus Universitário de Santiago, Portugal
Business framework	Research and Development
Position	Technical and scientific consultant
Main responsibilities	Consulting and evaluation of the project “Enhancing the computational intelligence in neurofeedback therapy - Application to attention deficit hyperactivity disorder (ECINFADHD)”, Codice PTDC/SAU-NEU/102931/2008 Competition Organiser: Ministry of Science, Technology and Higher Education - Foundation for Science and Technology, Portugal. The proposal has obtained the required funding.

Period	July 2007 – August 2007
Employer	University “Mediterranea” of Reggio Calabria, Italy
Business framework	Research and Development
Position	Freelance
Main responsibilities	Implementation of a software / hardware Neural Networks based system to distinguish defects in aeronautic composite, within the project "Characterization of ultrasonic signals in CFRP materials for aeronautical use", funded by Alenia Aeronautica SpA.

SCIENTIFIC GRANTS

Period	November 2013 – April 2015
Employer	University “Mediterranea” of Reggio Calabria, Italy
Business framework	Research and Development
Position	Post-doc grant
Main responsibilities	18-months post-doc grant: “Characterization of functional materials based on nanostructures for the development of innovative devices with biomedical applications”. 8 months spent abroad (April-July 2014 at the “Delft University of Technology”, The Netherlands; August -November 2014 at the “Institute of Technical Physics and Materials Science, Research Centre for Natural Sciences, Hungarian Academy of Sciences”, Budapest, Hungary and “University of York”, UK).

Period	September 15, 2011 – September 14, 2013
Employer	University “Mediterranea” of Reggio Calabria, Italy
Business framework	Research and Development
Position	Post-doc grant

Main responsibilities	Post-doc grant: “Research on functional magnetic materials based on nanoparticles”. 8 months spent abroad (June-October 2012, June-August 2013) at the Institute of Technical Physics and Materials Science, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary. 4 months (November-December 2012, March-April 2013) spent at the Italian Institute of Technology – Centre for Biomolecular Nanotechnologies, Lecce, Italy.
Period	June 01, 2009 – May 31, 2010
Employer	University “Mediterranea” of Reggio Calabria, Italy
Business framework	Research and Development
Position	Post-doc grant
Main responsibilities	Post-doc grant: “Innovative and nonlinear computational paradigms for time series analysis with applications to biomedical research, nuclear fusion and evolution of defects in metallic structures”.
Period	March 2008 – January 2009
Employer	Calabria Region University “Mediterranea” of Reggio Calabria, Italy Michigan State University, Non Destructive Evaluation Laboratory, USA
Business framework	Research and Development
Position	Post-doc grant
Main responsibilities	Project: “Non-destructive diagnosys with aeronautical applications by magneto-optic images” Proposer: University “Mediterranea” of Reggio Calabria, DIMET Scientific responsible: Prof. Francesco Carlo Morabito

EDUCATION

Period	April 22, 2012
Institute	University of Cambridge, ESOL
Principal subjects	English Language
Acquired qualifications	Preliminary English Test (PET) level with “Passed with Distinction” evaluation, equivalent to B2 level of “Common European Framework of Reference”
Period	November 2004 – October 2007
Institute	University “Mediterranea” of Reggio Calabria, Italy
Principal subjects	Machine Learning and Artificial Intelligence
Acquired qualifications	Ph.D. in Computer Science, Biomedical and Telecommunication Engineering
Period	September 1997 – December 2003
Institute	University “Mediterranea” of Reggio Calabria, Italy
Principal subjects	Electronic; Electrotechnics; Computer Science; Electromagnetic fields, and antennas; Electric and Computer networks; Remote Sensing

Acquired qualifications

M.D. in Electronic Engineering, evaluation 110/110
Title of the thesis: “Soft computing techniques for classifying disruptions in Tokamak nuclear fusion machineries”

KNOWN LANGUAGES

	Reading	**Writing**	**Oral**	**Technical**
ITALIAN	Mother tongue	Mother tongue	Mother tongue	Mother tongue
ENGLISH	CEFR B2	CEFR B2	CEFR B2	CEFR B2
FRENCH	Good	Good	Scholar	Scholar

OTHER INFO

Italian Abilitazione Scientifica Nazionale as Associate Professor obtained on Sep 27, 2022.

Hobbies: contemporary history, books, sports (football, volley, swimming), cinema.

Prizes and Awards:

- Listed into the Who’s Who in the World 2011
- Listed into the Who’s Who in the World 2010
- Listed into the Who’s Who in the World 2009
- Best ENNS Poster Award - ICONIP 2008, 15th International Conference on Neural Information Processing of the Asia-Pacific Neural Network Assembly, 25-28 November 2008, Auckland, New Zealand

Other info:

GitHub: https://github.com/matteocacciola
LinkedIn: https://www.linkedin.com/in/matteo-cacciola-9367a918
Portfolio: https://tinyurl.com/yy79y7k8
Kaggle: https://www.kaggle.com/matteocacciolamotork/code

List of Scientific Publications

Books, Book Chapters and Book Series

[BBC1] VERSACI M., CALCAGNO S., CACCIOLA M, MORABITO F.C., PALAMARA I., PELLICANÓ D. (2014). Fuzzy Geometrical Techniques for Characterizing Defects in Ultrasonic Non-destructive Evaluation. In: BURRASCANO P., CALLEGARI S., MONTISCI A., RICCI M., VERSACI M.. Ultrasonic Nondestructive Evaluation Systems: Industrial Application Issues. p. 259-269, Springer Cham Heidelberg New York Dordrecht London, ISBN: 978-3-319-10565-9, doi: 10.1007/978-3-319-10566-6

[BBC2] VERSACI M., CALCAGNO S., CACCIOLA M, MORABITO F.C., PALAMARA I., PELLICANÓ D. (2014). Innovative Fuzzy Techniques for Characterizing Defects in Ultrasonic Nondestructive Evaluation. In: BURRASCANO P., CALLEGARI S., MONTISCI A., RICCI M., VERSACI M.. Ultrasonic Nondestructive Evaluation Systems: Industrial Application Issues. p. 201-232, Springer Cham Heidelberg New York Dordrecht London, ISBN: 978-3-319-10565-9, doi: 10.1007/978-3-319-10566-6

[BBC3] VERSACI M., CALCAGNO S., CACCIOLA M, MORABITO F.C., PALAMARA I., PELLICANÓ D. (2014). Standard Soft Computing Techniques for Characterization of Defects in Nondestructive Evaluation. In: BURRASCANO P., CALLEGARI S., MONTISCI A., RICCI M., VERSACI M.. Ultrasonic Nondestructive Evaluation Systems: Industrial Application Issues. p. 175-199, Springer Cham Heidelberg New York Dordrecht London, ISBN: 978-3-319-10565-9, doi: 10.1007/978-3-319-10566-6

[BBC4] MORABITO F.C., MORABITO G., CACCIOLA M, OCCHIUTO G. (2014). The Brain and Creativity. In: N. Kasabov. (a cura di): N. Kasabov, Springer Handbook of Bio-/Neuroinformatics . SPRINGER SERIES IN COGNITIVE AND NEURAL SYSTEMS, p. 1099-1109, HEIDELBERG, DORDRECHT, LONDON:Springer-Verlag BERLIN-HEIDELBERG, ISBN: 978-3-642-30574-0, doi: 10.1007/978-3-642-30574-0

[BBC5] BURRASCANO P, CACCIOLA M., MORABITO F.C, RICCI M (2011). DOI: 10.3233/978-1-60750-692-8-125 Higher order based image deconvolution in electromagnetic non destructive evaluation of metallic materials. In: BRUNO APOLLONI, SIMONE BASSIS, ANNA ESPOSITO, CARLO FRANCESCO MORABITO. Frontiers in Artificial Intelligence and Applications. vol. 226, p. 125-132, AMSTERDAM: IOS Press, ISBN/ISSN: 978-1-60750-691-1, doi: 10.3233/978-1-60750-692-8-125

[BBC6] CACCIOLA M., RIPEPI G, YANG G, TIAN G.Y, MORABITO F.C (2011). ICA based Algorithms for Flaw Classification in Pulsed Eddy Current Data: A Study. In: B. APOLLONI, S. BASSIS, A. ESPOSITO, F.C. MORABITO. Frontiers in Artificial Intelligence and Applications. vol. 226, p. 162-171, AMSTERDAM: IOS Press, ISBN/ISSN: 978-1-60750-691-1, doi: 10.3233/978-1-60750-692-8-162

[BBC7] CACCIOLA M., CALCAGNO S, LAGANÀ F, MEGALI G, PELLICANÒ D, VERSACI M, MORABITO F.C (2009). Advanced Integration of Neural Networks for Characterizing Voids in Welded Strips. In: M. POLYCARPOU, C. PANAYIOTOU, C. ALIPPI, G. ELLINAS. Lecture Notes in Computer Science - Artificial Neural Networks. vol. 5769(2), p. 455-464, BERLIN: Springer-Verlag Berlin / Heidelberg, ISBN/ISSN: 978-3-642-04276-8, doi: 10.1007/978-3-642-04277-5_46

[BBC8] CACCIOLA M., FIASCHÈ M, MEGALI G, MORABITO F.C, VERSACI M (2009). A Neural Network Based Classification of Human Blood Cell in a Multiphysic Framework. In: M. KOPPEN ET AL.. Lecture Notes in Computer Sciences – Neural Information Processing, Part II. vol. 5507, p. 720-727, BERLIN: Springer-Verlag Heidelberg

[BBC9] CACCIOLA M., LA FORESTA F, MORABITO F.C, VERSACI M (2009). Neural Networks for the Parameters Characterization of ECG Dynamical Model. In: B. APOLLONI, S. BASSIS, M. MARINARO. Frontiers in Artificial Intelligence and Applications - New Directions in Neural Networks. vol. 193, p. 40-49, AMSTERDAM: IOS Press

[BBC10] CACCIOLA M., MEGALI G, PELLICANÒ D, BUONSANTI M, CALCAGNO S, VERSACI M, MORABITO F.C (2009). Neuro-fuzzy Approach for Reconstructing Fissures in Concrete's Reinforcing Bars. In: V. DI GESU', S.K. PAL, AND A. PETROSINO. Lecture Notes in Artificial Intelligence. vol. 5571, p. 171-178, BERLIN: Springer Verlag, ISBN/ISSN: 978-3-642-02281-4, doi: 10.1007/978-3-642- 02282-1_22

[BBC11] CACCIOLA M., MORABITO F.C, BARRILE V (2009). Remote Sensing Imagery for Soil Characterization: a Wavelet Neural Data Fusion Approach. In: B. APOLLONI, S. BASSIS, M. MARINARO. Frontiers in Artificial Intelligence and Applications - New Directions in Neural Networks. vol. 193, p. 235-244, AMSTERDAM: IOS Press

[BBC12] FIASCHÉ M, CUZZOLA M, FEDELE R, PRINCI D, CACCIOLA M., MEGALI G, IACOPINO P, MORABITO F.C (2009). Computational Intelligence Methods for Discovering Diagnostic Gene Targets about aGVHD. In: B. APOLLONI, S. BASSIS, C.F. MORABITO. Frontiers in Artificial Intelligence and Applications - Neural Nets Wirn09. vol. 204, p. 271-280, AMSTERDAM: IOS Press, ISBN/ISSN: 978-1-60750-072-8, doi: 10.3233/978-1-60750-072-8-271

[BBC13] LAGANÀ F, CALCAGNO S, CACCIOLA M., DE CARLO D, MEGALI G, VERSACI M, MORABITO F.C (2009). Evaluating soft computing techniques for path loss estimation on urban environments. In: B. APOLLONI, S. BASSIS, C.F. MORABITO. Frontiers in Artificial Intelligence and Applications - Neural Nets Wirn09. vol. 204, p. 323-331, AMSTERDAM: IOS Press, ISBN/ISSN: 978-1-60750-072-8, doi: 10.3233/978-1-60750-072-8- 323

[BBC14] BUONSANTI M, CACCIOLA M., MEGALI G, MORABITO F.C, PELLICANÒ D, PONTARI A, VERSACI M (2008). Mechanical Aspects in the Cells Detachment. In: CHWEE TECK LIM AND JAMES C. H. GOH. IFMBE Proceedings. vol. 23(5), p. 1842-1845, BERLIN: Springer Berlin Heidelberg, ISBN/ISSN: 978-3-540-92840-9, doi: 10.1007/978-3-540-92841-6_457

[BBC15] CACCIOLA M., MEGALI G, MORABITO F.C (2008). An Optimized Support Vector Machine Based Approach for Non Destructive Bumps Characterization in Metallic Plates. In: S. WIAK; A. KRAWCZYK; I. DOLEZEL. Intelligent Computer Techniques in Applied Electromagnetics, Studies in Computational Intelligence Series. vol. 119, p. 131-138, BERLIN: Springer Berlin / Heidelberg, ISBN/ISSN: 978-3-540-78489-0

[BBC16] CACCIOLA M., MORABITO F.C, SIMONE G (2008). Image Fusion Techniques for Non Destructive Testing and Remote Sensing Applications. In: T. STATHAKI. Image Fusion: Algorithms and Applications. vol. Chapter 15, p. 367-392, NEW YORK: Academic Press, ISBN/ISSN: 978-0-12-372529-5

[BBC17] CACCIOLA M., CAMPOLO M, LA FORESTA F, MORABITO F.C, VERSACI M (2007). A Kernel Based Learning by Sample Technique for Defect Identification through the Inversion of a Typical Electric Problem. In: B. APOLLONI ET AL.. Lecture Notes in Artificial Intelligence. vol. 4694, Part III, p. 243-250, BERLIN: Springer Berlin / Heidelberg, ISBN/ISSN: 978-3-540-74828-1

[BBC18] CACCIOLA M., MORABITO F.C, VERSACI M (2007). Computational Intelligence Methodologies for Non Destructive Testing/Evaluation Applications. In: C.H. CHEN. Ultrasonic and Advanced Methods for Nondestructive Testing and Material Characterization. vol. Chapter 21, p. 493-516, NEW YORK: World Scientific Publishing, ISBN/ISSN: 978-9-81-270409-2

[BBC19] BARRILE V, CACCIOLA M., DAMICO S, GRECO A, MORABITO F.C, PARRILLO F (2006). Radial Basis Function Neural Networks to Foresee Aftershocks in Seismic Sequences Related to Large Earthquakes. In: I. KING ET AL.. Lecture Notes in Computer Science - Neural Information Processing. vol. 4233 Part II, p. 909-916, BERLIN: Springer Berlin / Heidelberg, ISBN/ISSN: 3-540-46479-4

[BBC20] CACCIOLA M., GRECO A, MORABITO F.C, VERSACI M (2006). An Exhaustive Employment of Neural Networks to Search the Better Configuration of Magnetic Signals in ITER Machine. In: I. KING ET AL.. Lecture Notes in Computer Science - Neural Information Processing. vol. 4233 Part II, p. 353-360, BERLIN: Springer Berlin / Heidelberg, ISBN/ISSN: 3-540-46479-4

International Journals

[IJ1] OSACI M., CACCIOLA M., GHEORGHE L. (2024). Exploring the tendency of Brownian agglomeration in polydispersed systems of solid atmospheric aerosols. PHYSICS OF FLUIDS 1 August 2024; 36 (8): 082010. doi: 10.1063/5.0218974

[IJ2] OSACI M., CACCIOLA M. (2023). A study of Brownian relaxation time in magnetic nanofluids: a semi-analytical model. MULTISCALE AND MULTIDISCIP. MODEL. EXP. AND DES. 7, 15–29 (2024). doi: 10.1007/s41939-023-00174-9

[IJ3] OSACI M., CACCIOLA M. (2023). Understanding the Effect of Magnetic Field and Nanoparticle Concentration on Brownian Relaxation Time in Magnetic Nanofluids: A Semi-Analytical Model. RESEARCH SQUARE. doi: 10.21203/rs.3.rs-2625923/v1.

[IJ4] OSACI M., CACCIOLA M. (2021). About the influence of the colloidal magnetic nanoparticles coating on the specific loss power in magnetic hyperthermia. JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. 2021, 59, 167451. doi:10.1016/j.jmmm.2020.167451

[IJ5] OSACI M., CACCIOLA M. (2020). Influence of the magnetic nanoparticle coating on the magnetic relaxation time. BEILSTEIN J. NANOTECHNOL. 2020, 11, 1207–1216. doi:10.3762/bjnano.11.105

[IJ6] OSACI M., CACCIOLA M (2017). Specific loss power in superparamagnetic hyperthermia: nanofluid versus composite. IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING, vol. 163, ISSN: 1757-8981, doi: 0.1088/1757-899X/163/1/012008

[IJ7] OSACI M., CACCIOLA M (2017). Study about the nanoparticle agglomeration in a magnetic nanofluid by the Langevin dynamics simulation model using an effective Verlet-type algorithm. MICROFLUIDICS AND NANOFLUIDICS, vol. 21, ISSN: 1613-4982, doi: 10.1007/s10404-017-1856-0

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