# Europass
# Curriculum Vitae

## Personal information

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| First name(s) / Surname(s) | **Iuliana MARIN** |
| Address(es) | - |
| Telephone(s) | -   Mobile:  - |
| E-mail | - |
| Nationality | - |
| Date of birth | - |
| Gender | - |

**Desired employment / Occupational field** — Research

## Work experience

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| Dates | October 2023 - present |
| Occupation or position held | University associate professor |
| Main activities and responsibilities | Teaching the courses of Programming Languages, Architecture des ordinateurs, Programmation fonctionnelle, Microcontrolleurs, Systémes programables avec FPGA and the laboratories of Databases, Computer Networks, Object Oriented Programming, Microcontrolleurs, Systémes programables avec FPGA, Distributed and Parallel Algorithms, Technologies for Big Data Analysis, Paradigmes de Programmation, Software Methodologies. |
| Name and address of employer | National University of Science and Technology POLITEHNICA Bucharest, Romania |
| Type of business or sector | Teaching and research |
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| Dates | October 2021 – September 2023 |
| Occupation or position held | University lecturer |
| Main activities and responsibilities | Teaching the courses of Conception Logique, Programming Languages, Architecture des ordinateurs, Programmation fonctionnelle, Microcontrolleurs, Systémes programables avec FPGA and the laboratories of Langages de Programmation 2-Programmation en Python, Databases, Computer Networks, Object Oriented Programming, Architecture des ordinateurs, Operating Systems, Programmation fonctionnelle, Microcontrolleurs, Systémes programables avec FPGA, Semantic Web, Technologies Web et Semantique Web, Semantique Web, Distributed and Parallel Algorithms, Technologies for Big Data Analysis, Paradigmes de Programmation, Software Methodologies. |
| Name and address of employer | University Politehnica of Bucharest, Romania |
| Type of business or sector | Teaching and research |
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| Dates | December 2018 - present |
| Occupation or position held | Project Manager |
| Main activities and responsibilities | Overall charge of the planning and execution of the "Intelligent bracelet for blood pressure monitoring and detection of preeclampsia" Eurostars project, PN-III-P2-2.1-PTE-2019-0756 SMARTCARE "Integrative platform for home care assistance solutions" project and PN-III-P3-3.5-EUK-2019-0202 cINnAMON "A non-intrusive home surveillance system for assisting elderly persons with frailty risk" project. |
| Name and address of employer | Info World, Bucharest, Romania |
| Type of business or sector | Research |

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|---|---|
| Dates | October 2017 – September 2021 |
| Occupation or position held | University assistant |
| Main activities and responsibilities | Teaching Databases, Bases de données, Computer Networks, Réseaux informatiques locaux, Programming Languages, Object Oriented Programming, Programation orientée objet, Architecture des ordinateurs, Data structures and algorithms, Operating Systems, Systemes d'Exploitation, Semantic Web, Interface Homme-Machine, Distributed Systems, Technologies for Big Data Analysis, Software Methodologies. |
| Name and address of employer | University Politehnica of Bucharest, Romania |
| Type of business or sector | Teaching and research |
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| Dates | October 2016 - December 2018 |
| Occupation or position held | Research assistant |
| Main activities and responsibilities | Development of the monitoring system |
| Name and address of employer | University Politehnica of Bucharest, EUROSTARS 9770 i-Light "A pervasive home monitoring system based on intelligent luminaires" |
| Type of business or sector | Research |
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| Dates | May 2017 - December 2018 |
| Occupation or position held | Software Developer |
| Main activities and responsibilities | Development of a healthcare system |
| Name and address of employer | Info World, Bucharest, Romania |
| Type of business or sector | Research |
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| Dates | November 2015 - May 2017 |
| Occupation or position held | Research assistant |
| Main activities and responsibilities | Semantic matching, Big Data analyst, Inferences of skills |
| Name and address of employer | University Politehnica of Bucharest, project "Using Big Data and semantic matching for a job recommendation engine", project number T 46.15.02 |
| Type of business or sector | Research |
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| Dates | June 2014 - September 2014 |
| Occupation or position held | Intern |
| Main activities and responsibilities | Distributed Systems Algorithms, E-health Interoperability, Distributed and E-health Networking |
| Name and address of employer | Donalds Smits Center of Information Technology, University of Groningen, Nettelbosje 1, 9747 Aj Groningen, Netherlands |
| Type of business or sector | Computer Science |
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| Dates | June 2012 - June 2014 |
| Occupation or position held | Private tutor (Mathematics) |
| Main activities and responsibilities | Preparing student for baccalaureate exam who received the mark 9.85 (98.5%) |
| Name and address of employer | - |
| Type of business or sector | Independent worker |
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| Dates | September 2011-present |
| Occupation or position held | Technical support for the website of the University of Agronomical Sciences and Veterinary Medicine, Bucharest |
| Main activities and responsibilities | Updating the information on the website |
| Name and address of employer | University of Agronomical Sciences and Veterinary Medicine, Bucharest |

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| Type of business or sector | Volunteer |

## Education and training

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| Date | 2023 |
| Title of qualification awarded | Diplôme approfondi de langue française |
| Principal subject/occupational skills covered | C1 |
| Name and type of organisation providing education and training | Ministère de l'éducation nationale et de la jeunesse |
| Level in national or international classification | ISCED 4 |
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| Date | 2023 |
| Title of qualification awarded | Certificate in Advanced English |
| Principal subject/occupational skills covered | Advanced English |
| Name and type of organisation providing education and training | University of Cambridge |
| Level in national or international classification | ISCED 4 |
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| Date | 2022 |
| Title of qualification awarded | Diplôme d'études en langue française |
| Principal subject/occupational skills covered | B2 |
| Name and type of organisation providing education and training | Ministère de l'éducation nationale, de la jeunesse et des sports |
| Level in national or international classification | ISCED 4 |
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| Dates | October 2021 - October 2023 |
| Title of qualification awarded | Postdoctoral Fellowship of Philosophy in Computers and Information Technology (Postdoc) |
| Principal subjects/occupational skills covered | Research. |
| Name and type of organisation providing education and training | National University of Science and Technology POLITEHNICA Bucharest, Doctoral school of Automatic Control and Computers |
| Level in national or international classification | ISCED 8 |
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| Dates | October 2017 - October 2020 |
| Title of qualification awarded | Doctor of Philosophy in Computers and Information Technology (PhD) |
| Principal subjects/occupational skills covered | Software Engineering, Semantic Web, Neural Networks, Research. |
| Name and type of organisation providing education and training | University Politehnica of Bucharest, Doctoral school of Automatic Control and Computers |
| Level in national or international classification | ISCED 8 |

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|---|---|
| Dates | October 2015 - July 2017 |
| Title of qualification awarded | Master of Science in Software Engineering |
| Principal subjects/occupational skills covered | Advanced Concepts in Software Engineering, Formal Models in Software Engineering, Advances Topics in Computer Networks, Advanced Database Systems, Programming Paradigms, Software Methodologies, Software Project Management, Software Architectures, Software Testing, Game and Interactive Simulation Software Systems, Model Driven Software Engineering, Distributed Software Engineering, Computing in Semantic Web, Agent-Oriented Software Engineering, Special Topics in Software Engineering, Research. |
| Name and type of organisation providing education and training | University Politehnica of Bucharest, Faculty of Engineering in Foreign Languages, English Stream |
| Level in national or international classification | ISCED 7 |
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| Dates | October 2015 - February 2016 |
| Title of qualification awarded | Level I teaching profession |
| Principal subjects/occupational skills covered | Educational Psychology, Pedagogy I and Pedagogy II, Classroom Management, Teaching Specialty, Computer Assisted Instruction |
| Name and type of organisation providing education and training | Department of Education for the Academic Career and Social Sciences, University Politehnica of Bucharest |
| Level in national or international classification | ISCED 6 |
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| Dates | February 2016 - June 2016 |
| Title of qualification awarded | Level II teaching profession |
| Principal subjects/occupational skills covered | Psychopedagogy for teenagers, youth and adults, Didactic teaching and development in didactic specialty, Multimedia in education, Educational communication, Design and management of educational programs |
| Name and type of organisation providing education and training | Department of Education for the Academic Career and Social Sciences, University Politehnica of Bucharest |
| Level in national or international classification | ISCED 6 |
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| Dates | 2011 – July 2015 |
| Title of qualification awarded | Engineer in Computer Science |
| Principal subjects/occupational skills covered | Mathematics, Physics, Programming Languages, Data Structures and Algorithms, Web Programming, Object Oriented Programming, Object Oriented Programming, Operating Systems, Numerical Methods, Computer Networks, Databases, Advanced Computer Graphics, Algorithm Design and Complexity, Formal languages and automata, Mobile device application development, Neural Networks and Genetic Algorithms, Functional Programming, Software Development Methods, Web Application Development, Software Design Techniques, Artificial Intelligence, Bioinformatics, Semantic Web, Robotics and Virtual Reality, Software Engineering, Distributed Systems, Compiler Techniques |
| Name and type of organisation providing education and training | University Politehnica of Bucharest, Faculty of Engineering in Foreign Languages, Information Engineering, English Stream |
| Level in national or international classification | ISCED 5 |
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| Dates | 2007 – 2011 |
| Title of qualification awarded | Baccalaureate Diploma |
| Principal subjects/occupational skills covered | Mathematics, Informatics |
| Name and type of organisation providing education and training | "Ion Barbu" Theoretical High School |

| Level in national or international classification | ISCED 4 |
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| Date | 2010 |
| Title of qualification awarded | First Certificate in English |
| Principal subject/occupational skills covered | Upper-Intermediate English |
| Name and type of organisation providing education and training | University of Cambridge |
| Level in national or international classification | ISCED 4 |
| Mother tongue(s) | **Romanian** |
| Other language(s) | |

| Self-assessment | Understanding | | | | Speaking | | | | Writing | |
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| European level (*) | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| **English** | C2 | Proficient user | C1 | Proficient user | C2 | Proficient user | C2 | Proficient user | C1 | Proficient user |
| **French** | C1 | Proficient user | B2 | Independent user | C1 | Proficient user | C1 | Proficient user | B2 | Independent user |

*(*) Common European Framework of Reference for Languages*

| Social skills and competences | - Participation in the "Cultural diversity and tolerance" Comenius program – "Lifelong Learning", 2009 |
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- Participation in the "Cultural diversity and tolerance" Comenius program – "Lifelong Learning", 2009
- Social actions at the "Cireşarii II" orphanage (2007-2011)
- Participation in the "Diversification and tolerance" project within the Comenius program - "Lifelong Learning", 2010
- Participation at the "Renewable Energy" course within the project "Discover a new working field", June 2013
- Presentation development of the Faculty of Animal Husbandry, USAMV, Bucharest to promote the educational offer during the open days, May 2014
- Participation at PoliFEST, 2015-2019, to provide information about the educational offer of the Faculty of Engineering in Foreign Languages.
- Participation at the courses "Counsellor in personal development" and "Storytelling" within the project FSS 120/GP/10.04.2019 on improving the quality of tertiary education through the development of partnerships with the economic environment, 2019.
- Participation at the online presentation event of the Faculty of Engineering in Foreign Languages (FILS), November 11, 2020, to provide information on internship and employment opportunities for FILS graduates, leisure and existing student organizations.
- Participation at the online presentation event of the Faculty of Engineering in Foreign Languages (FILS), November 25, 2020, to provide information on educational offerings for the field of study Computers and information technology, with teaching in English and French, along with information on free time and existing student organizations at FILS.
- Presentation of "A peek into UPB study programs" regarding bachelors' studies on May 10, 2022, and master studies on May 11, 2022.
- Erasmus scholarship to teach a Big Data course at University of Patras, Greece, 7-14 September 2022.
- Chair for the Industry Panel of the IEEE International Conference on Blockchain, Smart Healthcare and Emerging Technologies 2022 (SmartBlock4Health 2022), Bucharest, Romania, 25 October 2022.
- Responsible for the undergraduate program in the field of Computers and Information Technology, study program Internet of Things Engineering, Faculty of Engineering in Foreign Languages, National University of Science and Technology POLITEHNICA Bucharest, 2022-present.
- Erasmus scholarship professional training at University Rey Juan Carlos, Madrid, Spain, 3-7 July 2023.
- Erasmus Scholarship for Professional Training at Rey Juan Carlos University, Madrid, Spain, June 16-23, 2024.
- Erasmus Scholarship for Vocational Training at the University of Patras, Patras, Greece, 15-21 September 2024.
- Participation at the event "La journée internationale des femmes et des filles de science" of Institut français de Roumanie à Bucarest, February 11, 2026, to provide information on "La création d'agents RAG (Retrieval-Augmented Generation) basés sur les grands modèles de langage (LLM)".

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| Organisational skills and competences | - Erasmus academic recognition committee member, 2024-2025, for: the field of study Computers and Information Technology, the study programs Information Engineering (in English), Internet Engineering of Intelligent Devices (in English); the field of study Electronic Engineering, Telecommunications and Information Technologies, the Applied Electronics study programs (in English and French); field of study Computers and Information Technology, study program Systems Engineering / Software Engineering. |

- Erasmus academic recognition committee member, 2024-2025, for: the field of study Computers and Information Technology, the study programs Information Engineering (in English), Internet Engineering of Intelligent Devices (in English); the field of study Electronic Engineering, Telecommunications and Information Technologies, the Applied Electronics study programs (in English and French); field of study Computers and Information Technology, study program Systems Engineering / Software Engineering.
- Member of the committee for quality assurance, periodic evaluation and authorization/accreditation, 2024-2025.
- Evaluation expert for the European Research Executive Agency, European Commission, Brussels, Belgium, 2025-2026, within the call HORIZON-EIC-2025-PATHFINDERCHALLENGES-01.
- Evaluation expert for the European Research Executive Agency, European Commission, Brussels, Belgium, 2025-2026, within the call HORIZON-MSCA-2025-DN-01.
- Organizer of the NVIDIA workshop "Computer Vision for Industrial Inspection" at the National University of Science and Technology Politehnica Bucharest, March 7, 2025.
- Organizer of the workshop "Build Your First Arduino Project" for high school students at the POLI International Fest, National University of Science and Technology Politehnica Bucharest, March 5, 2025.
- Poster competition evaluator, Solutions basées sur les technologies émergentes pour le développement durable, AUF, February 14, 2025.
- International Expert Evaluator for Commission des Titres d'Ingénieur (CTI), France, for the Bachelor of Science and Engineering, specializing in Architect and Video Game Developer, as well as Cybersecurity for the institution ISEN Yncréa Méditerranée (Institut supérieur de l'électronique et du numérique Yncréa Méditerranée), located in Nice, France, November 12–13, 2024.
- Organizer of the Cloudflight Coding Contest Bucharest 2024 at the National University of Science and Technology POLITEHNICA Bucharest, April 19, 2024.
- Invited Chair at the International Symposium on Fundamentals of Electrical Engineering 2023, Digital Processing session, Bucharest, Romania, November 18, 2023.
- Organizer of the Cloudflight Coding Contest Bucharest 2023 at the National University of Science and Technology POLITEHNICA Bucharest, October 20, 2023.
- Invited chair at the 18th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2023), session 2A, Prague, Czech Republic, 25 April 2023.
- Speaker at the workshop "Sciences techniques", Symposium de la recherche scientifique francophone en Roumanie, 20 December 2022.
- Member of the advisory committee of the PhD thesis "Design and Implementation of a Wearable Device Prototype to Monitor and Track the Vital Signs for Covid-19 Patients in Quarantine Area" by Eng. Hasan Naji, August 2022.
- Invited key-note speaker at the IEEE Blockchain Americas (BCAMS) regarding "Discovering Blockchain Technology: Issues, Applications and Research Potential", August 23, 2022.
- Invited Zoom chair at the Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology (RESPECT), Philadelphia, USA, May 23-24, 2022.
- Jury of student projects within the Hardcore Entrepreneur 2.0 event, organized by the Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, May 22, 2022.
- Organizing the presentation of the company BEIA CONSULT INTERNATIONAL SRL within the project "Increasing educational equity and combating school dropout within FILS, challenges of the Intercultural Environment"-ACCESMI, May 18, 2022.
- Coordination of the student Emil DANIELESCU-Sotiuț, year 4, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, who obtained a mention for the paper "UPB Shooter Game-Play, User Interface and AI implementation", Student scientific communication session, section 12-1, May 14, 2022.
- Coordination of the student Oleksandra Kuvshynova, year 4, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, who obtained a mention for the paper "Audio-based Mobile Application for Individual Music Practice", Student Scientific Communications Session, section 12-3, May 14, 2022
- Member of the Examination Committee Computers and Information Technology in English, Student Scientific Communications Session, section 12-1, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, May 14, 2022.
- Member of the French Computer and Information Technology Examination Board, Student Scientific Communications Session, section 12-4, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, May 13, 2022.
- Member of the French, Telecommunications and Information Technology Examination Board in French, Student Scientific Communications Session, section 12-5, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, May 13, 2022.

| Organisational skills and competences | - Speaker regarding the Erasmus+ project number 400621673/2020, DIGI4ME – "Health sector skill alliance for creating innovative and efficient VET programmes and improving the digital skills of medical physics and health professionals" (2020-2023) at the XVth Anti-Aging Medicine, Corrective Dermatology and Aesthetic Medicine Congress, Bucharest, Romania, May 6, 2023.<br>- Judge for the poster competition of the 9th IEEE Conference on Technologies for Sustainability (SusTech 2022), April 21-23, 2022.<br>- Participation as a teacher in the workshop for high school students of Java, JavaFX and Android, organized by the Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, May 7, 2022.<br>- Speaker regarding the Erasmus+ project number 400621673/2020, DIGI4ME – "Health sector skill alliance for creating innovative and efficient VET programmes and improving the digital skills of medical physics and health professionals" (2020-2023) at the XIVth Anti-Aging Medicine, Corrective Dermatology and Aesthetic Medicine Congress, Bucharest, Romania, May 7, 2022.<br>- Invited professor at the 3rd International Multi-Disciplinary Research Conference, where I presented "An Intelligent HL7 Application based on Questionnaire Generation and Editing", December 22, 2021.<br>- Member of the advisory committee of the doctoral thesis "A quantitative research for determining the user requirements for developing a system to assist people with frailty" by Eng. Myssar Jabbar, December 2021.<br>- Member of the doctoral thesis guidance committee of Eng. Alexandru Sonea, December 2021.<br>- Member of the doctoral thesis guidance committee of Eng. Ionuț Tata, December 2021.<br>- Member of the doctoral thesis guidance committee of Ing. Cristinel Bărbulescu, December 2021.<br>- Presenter at the IEEE Healthcare: Blockchain & AI Podcast, December 8, 2021.<br>- Participation at the "EXTEND PhD School" of Erasmus+ K2 project EXTEND "Excellence in Engineering Education through Teacher Training and New Pedagogic Approaches in Russia and Tajikistan", Magnitogorsk, Russia, November 15-20, 2021.<br>- Participation as alumni of the Polytechnic University of Bucharest in the project UPB Ambassadors - Representatives of companies, 2021.<br>- Certificate of completion of the SAP Generative AI Developer course from SAP, February 2026.<br>- Certificate of completion of the Google Cloud Fundamentals: Core Infrastructure course from Google, February 2026.<br>- Certificate of completion of the Building Agentic AI Applications with Large Language Models course from NVIDIA, January 2026.<br>- Certificate of completion of the Building Transformer-Based Natural Language Processing Applications course from NVIDIA, January 2026.<br>- Certificate of completion of the Adding New Knowledge to LLMs course from NVIDIA, November 2025.<br>- Certificate of completion of the Fundamentals of Deep Learning course from NVIDIA, November 2025.<br>- Certificate of completion of the Model Parallelism: Building and Deploying Large Neural Networks course from NVIDIA, October 2025.<br>- Certificate of completion of the Generative AI with Diffusion Models course from NVIDIA, October 2025.<br>- Certificate of completion of the Data Parallelism: How to Train Deep Learning Models on Multiple GPUs course from NVIDIA, August 2025.<br>- Certificate of completion of the Building RAG Agents with LLMs course from NVIDIA, June 2025.<br>- Certificate of completion of the Computer Vision for Industrial Inspection course from NVIDIA, December 2024.<br>- NVIDIA Ambassador, NVIDIA Deep Learning Institute Certified Instructor Program, 2025 – present.<br>- Certificate of completion of the Introduction to Neural Networks and PyTorch course from IBM, Coursera, December 2024.<br>- Certificate of completion of the Introduction to Computer Vision and Image Processing course from IBM, Coursera, July 2024.<br>- Certificate of completion of the course Introduction to Deep Learning & Neural Networks with Keras from IBM, Coursera, December 2023.<br>- Certificate of completion of the Machine Learning with Python course from IBM, Coursera, September 2023.<br>- Certificate of completion for 30 hours of study at Advanced level at the British Council, Romania, between 13 September and 25 November 2022.<br>- Graduation certificate in the FUTURE Manager program, ReImagine Education, 2022.<br>- Certificate of graduation of the specialization course, Tax Expert occupation, COR code 241221, S.C. SOFT SKILLS TRAINING S.R.L., 2021.<br>- Certificate of graduation for the specialization course, Human Resources Manager occupation, COR code 121207, S.C. SOFT SKILLS TRAINING S.R.L., 2021. |

| Technical skills and competences | - Certificate of graduation for the specialization course, Human Resources Inspector / Referent occupation, COR code 333304, S.C. SOFT SKILLS TRAINING S.R.L., 2021. |
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| | - Certificate of graduation for the specialization course, Project Evaluator occupation, COR code 241263, S.C. SOFT SKILLS TRAINING S.R.L., 2021. |

- Certificate of graduation for the specialization course, Human Resources Inspector / Referent occupation, COR code 333304, S.C. SOFT SKILLS TRAINING S.R.L., 2021.
- Certificate of graduation for the specialization course, Project Evaluator occupation, COR code 241263, S.C. SOFT SKILLS TRAINING S.R.L., 2021.
- Certificate of attendance for the course Target PMP Certification, covering the integration, scope, schedule, cost, quality, resources, communication, risk, procurement and stakeholder management of projects, PM Access, Bucharest, Romania, 2020.
- Certificate of graduation for the specialization course, Project Manager occupation, COR code 242101, S.C. SOFT SKILLS TRAINING S.R.L., 2019.
- Certificate of graduation for the specialization course, Trainer occupation, COR code 242401, S.C. SOFT SKILLS TRAINING S.R.L., 2019.
- Certificate of graduation of the specialization course, Entrepreneurial Competences occupation, S.C. SOFT SKILLS TRAINING S.R.L., 2020.
- Certificate of graduation of the specialization course, Personal Development Counsellor occupation, COR code 242324, S.C. SOFT SKILLS TRAINING S.R.L., 2020.
- Certificate of graduation of the specialization course, Expert in Accessing European Structural and Cohesion Funds occupation, COR code 242213, S.C. SOFT SKILLS TRAINING S.R.L., 2020.
- Certificate of graduation of the specialization course, Public Procurement Expert occupation, COR code 214946, FUNDATIA CENTRUL DE FORMARE APSAP, 2020.
- Capacity of coordinating and administrating activities (group leader during the Bachelor and Master program).
- Coordinator for the schedule of undergraduate studies in English, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, 2019-present.
- Organizer for the 6th European Conference on the Engineering of Computer Based Systems, Bucharest, Romania, 2-3 September 2019.
- Invited presenter at the International Virtual Conference on New Directions for Modelling Nanocrystal Catalysts, Haifa, Israel, 7 July 2020.
- Member of the selection committee of candidates for Erasmus+ student status for study and placement mobility in the academic years 2021-2022, 2022-2023, 2023-2024, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest.
- Member of the board of the Department of Engineering in Foreign Languages (DILS) and the Faculty of Engineering in Foreign Languages (FILS), of the University Politehnica of Bucharest, October 2022-present.
- Antoni Homs Corbera, Dario Fassini, Jeremy Cramer, Tianqi Zhu, Thomas Guerinier, Guilhem Velve Casquillas, Marian Ion, Silviu Dinulescu, Carmen Aura Moldovan, Iuliana Marin, Irina Stanciu, Nicolae Goga, Andrei Vasilateanu, Alexandru Scafa Udriste, Iuliana Ceausu, "Method and Apparatus for the Electronic Monitoring of Life-Threatening Conditions", European Patent Office, application no. EP20020498A/2020.10.29, publication no. EP3991644A1/2022.05.04.
- Certification for the Advanced Writing course, 2020, authorized by University of California, Irvine, issued by Coursera.
- "Microsoft Certified Solutions Expert: Core Infrastructure" certificate, Microsoft, 2019.
- "Microsoft Certified Solutions Associate: Windows Server 2016" certificate, Microsoft, 2019.
- "Microsoft Certified Trainer" certificate, Microsoft, 2019.
- Certificate of completion for the Java Fundamentals course from 18.12.2015 issued by Oracle Academy
- Certificate of completion for the Database Design and Programming with SQL course from 19.07.2016, issued by Oracle Academy
- Certificate of completion for the Java Programming course from 21.07.2016, issued by Oracle Academy
- Certificate of completion for the Apache Hadoop course from 19.12.2016, issued by Cloudera
- Certificate of completion for the Database Foundations course from 10.01.2017, issued by Oracle Academy
- Certification of completion for the Database Programming with PL/SQL course from 22.01.2018, issued by Oracle Academy
- Certificate of completion for the APEX Foundations course from 17.07.2018, issued by Oracle Academy
- Certificate of completion for the Artificial Intelligence with Machine Learning course from the 24.09.2018, issued by Oracle Academy
- Certificate of completion for the Databases Foundations course from 04.12.2019, issued by Oracle Academy
- Participation with the paper "Radioactivity – a major factor of changes in human civilization" at the national contest of Physics "Einstein Universe", July 2011
- Participation at the "International Conference of Young Scientists - Foreign Language for Professional Competence", Saratov State Technical University, Russia, April-2012

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| Computer skills and competences | - Implementing the program to simulate the biological parameters for the paper: "The Metabolic Utilization of Iron and Copper in the Young Swine Organism", at the International Conference Agriculture for Life, USAMV Bucharest, 2013 and in the paper "Metabolic Usage of Essential Amino Acids in the Reproductive Laying Turkey Organism", at the Virtual Global Conference, Slovakia, 2013<br>- European Computer Driving Licence Core Certificate (basic concepts of information technology, Word, PowerPoint, Excel, Access) issued by ECDL Romania on 14.05.2011<br>- Programming Languages: Java, Python, C, C++, Visual C#, FoxPro, XML, jQuery, XPath, XSL, EJB, SQL, PL/SQL<br>- Web Programming: HTML, CSS, JavaScript, AJAX, JSON, Servlets, JSP, REST, Git<br>- Software design: UML<br>- Mobile Devices Programming Languages: Android, Objective C, C# for Xamarin<br>- Functional Programming Languages: Lisp, Haskell, Scheme<br>- Logic Programming Languages: Prolog<br>- Operating Systems: Linux (Ubuntu, CentOS), Windows, OS X, Raspberian<br>- Databases: Oracle (11g), JDBC, Microsoft Access, SQLite, PostgreSQL<br>- NoSQL Databases: CouchDB, MongoDB<br>- Circuit Simulators: PSIM<br>- Mathematical Computing Language: MATLAB, Wolfram Alpha<br>- Programs for the Numerical Analysis of the Electromagnetic Field through the Finite Element Method: QuickField, FEMM |
| Artistic skills and competences | - Participation at the contest of essays "Unemployment is a widespread social phenomenon today. What can the governments do and what can the individual do to confront the problem? Give reasons for your answer" organized by City College "International Faculty of the University of Sheffield in Thessaloniki, Greece, 2011<br>- Reading books, playing the piano, listening to classical music, visiting museums, castles and art galleries |
| Other skills and competences | - Provision of consulting services for the company Trasys, under contract no. DI-7624, "Tools for assessment of country and European capacities for integrated digital surveillance systems (IDSS)", in the period 17.01.2022-01.07.2022. The final beneficiary of the contract is the European Commission.<br>- Trainer from S.C. Info World SRL within the program of learning through practical experience in the field of MedTech/HealthTech within the project "Internships and orientation for medical students" SPORSIM - financing contract POCU/626/6/13/133315 registered with no. SE 9240/22.04.2021.<br>- Deputy Secretary March 2017 - April 2022 within the HL7 Romania Association.<br>- Vice-president starting with May 2022 within the HL7 Romania Association<br>- French language course, level B2.2, B2.3, C1.1, Institut Français, 2022-2023.<br>- French language course, level B2, as part of the project "Soutien au dispositif d'enseignement du français à visée professionnelle" launched by the Francophone University Agency (AUF).<br>- Creativity, competition spirit and originality in French in the activities done by the French department "Question pour un champion", „La Journée de la Francophonie", „Ateliers de traduction", 2007-2011.<br>- German language course, level A1, A2, B1, Goethe Institut, 2023-2024. |
| Driving licence | B |
| **Additional information** | |
| | Published works:<br>- books / courses (manuals) for student use, published in a recognized publishing house - 6;<br>- articles in extenso published in recognized international journals (listed / indexed ISI Thomson Reuters, or indexed in other International Databases - BDI): 15<br>- articles in extenso published in the volumes of internationally recognized scientific events, organized in the country and abroad, indexed by ISI Thomson or BDI - 72;<br>- articles in extenso published in other specialized magazines of national circulation - 8. |
| Presentations | - Invited speaker, "Artificial Intelligence in Action" webinar, Oracle Academy AI and ML, 21 March 2023.<br>- Developing and distributing information materials for promoting the event of open days at the University Politehnica of Bucharest, 2015-2019.<br>- Participation at Student Scientific Session 2012, University Politehnica of Bucharest, Section 12-1, Engineering in English, with "Better Building Websites with HTML5: A Showcase for the Museum Website", coordinated by lecturer Maria-Iuliana Dascalu. |

| Projects | - Project manager from the National University of Science and Technology POLITEHNICA Bucharest within the project BIoTa "Blockchain-Based IoT System for Monitoring and Controlling Livestock Farms", The Academy of Scientists of Romania for Young Researchers "AOȘR-TEAMS-IV" Edition 2025-2026 "Digital Transformation in Science", 2025-2026. |
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- Project manager from the National University of Science and Technology POLITEHNICA Bucharest within the project BIoTa "Blockchain-Based IoT System for Monitoring and Controlling Livestock Farms", The Academy of Scientists of Romania for Young Researchers "AOȘR-TEAMS-IV" Edition 2025-2026 "Digital Transformation in Science", 2025-2026.
- Scientific researcher from S.C. Info World SRL within the project PN-IV-P7-7.1-PTE-2024-0764 TraViMo "Virtual Therapist based on Motor Imagery for Early post-Stroke Recovery", 2025-2026.
- Scientific Researcher II from the National University of Science and Technology Politehnica Bucharest, within the project "Cyberintelligence AI-Based Platform for Risk Identification, Analysis and Rating in Supermassive Filesharing Environments and their Link to Exposed IoT Networks", internal project no. FL 11.24.01, Eurostars project EUROSTARS-3-E!6335-CIRANET, 2024-2027.
- Project director, "Increasing educational equity and combating school dropout within FILS, challenges of the Intercultural Environment"-ACCESMI, grant agreement 406/SGU/SS/2023 of 12.10.2023, duration 12 months, from the National University of Science and Technology Politehnica Bucharest. Public budget: 372,225 lei.
- Digital HUBB "Digitalization of UBB: Equipping digital infrastructure for teaching and research purposes (Digital HUBB)", financed by PNRR, Component 15: Education, Investment measure: Reform 5: Adoption of the legislative framework for the digitization of education, Investment 16: Digitization of universities and preparing them for the digital professions of the future. Project code 1347494230, carried out by Babeș-Bolyai University, based on financing contract no. 14074/16.09.2022. Role in the project: teacher trainer for Fergus Green Investment S.R.L. for teaching the course "Development of virtual robots for teaching, research, business and everyday activities".
- Scientific researcher from the University Politehnica of Bucharest within the project "Implementation of Blockchain technologies in the field of energy and traceability and mobile application ambient-assisted living (AAL)", contract internal no. CAMP 22.01, CRESCDI code 420224315, Funder: S.C. BEIA Consult International SRL, 20/01/2022 - 15/12/2022, contracting unit: University Politehnica of Bucharest.
- Scientific researcher from S.C. Info World SRL within the project PN-III-P2-2.1-PTE-2021-0634 TRAVEE "Virtual Therapist with Augmented Feedback for Neuromotor Recovery", 2022-2024.
- Scientific researcher III from the University Politehnica of Bucharest within the project PN-III-P1-1.1-TE-2021-1446 "Smart Career Profiler based on a Semantic Data Fusion Framework", 2022-2024.
- Tutor from the University Politehnica of Bucharest within the ROSE project Let's go to college! Summer program for high school students – StudUPB, grant agreement no. AG 332/SGU/PV/III of 22.06.2020.
- Guiding tutor within the project "Increasing educational equity and combating school dropout within FILS, challenges of the Intercultural Environment" - ACCESMI, grant agreement 350 SGU SS III dated 08.09.2020, duration 24 months.
- Contributed at the proposal and implementation of the Eureka project E! 13355, PN-III-P3-3.5-EUK-2019-0202, "A non-intrusive home surveillance system for assisting elderly persons with frailty risk", which was won in 2020.
- Management and software development within the project PN-III-P2-2.1-PTE-2019-0756 SMARTCARE "Integrative platform for home care solutions", 2020-2022.
- Software development within the Eureka project PN-III-P3-3.5-EUK-2019-0210 iRoute "Integrated analytical software platform for planning, optimizing and monitoring logistics vehicle fleets", 2020-2023.
- Software development within the project PN-III-P2-2.1-PTE-2019-0810 SoV Lite "Natural, accessible and ergonomic audio-haptic sensory substitution for the visually impaired", 2020-2022.
- Software development within the project PN-III-P2-2.1-PTE-2019-0769 PREVENT "Integrated platform for the prevention of hospital acquired infections", 2020-2022.
- Guiding tutor within the project "Increasing educational equity and combating school dropout within the FILS, challenges of the Intercultural Environment"-ACCESMI, Grant Agreement 350 SGU SS III, 2020-2022.
- Member in the COST Action 18234 Project: Computational materials sciences for efficient water splitting with nanocrystals from abundant elements, 18/11/2019 - 17/05/2024.
- Member in the Erasmus+ A2 project: Platforms, Skills and Innovation, project number 2020-1-DE02-KA226-VET-008290, E-PREP - "e-Preparation Portal for Teachers-Students-Parents Including Abroad Studies" (2020-2023).
- Member in the Erasmus+ A2: Platforms, Skills and Innovation, project number 400621673/2020, DIGI4ME – "Health sector skill alliance for creating innovative and efficient VET programmes and improving the digital skills of medical physics and health professionals" (2020-2023).
- Member of the CITE project - Computing Innovation for Technology Entrepreneurship, Education, Scholarships, Apprenticeship and Youth Entrepreneurship Program funded by the EEA Financial Mechanism (2014-2021).

| Projects | - i-bracelet "Intelligent bracelet for blood pressure monitoring and detection of preeclampsia" Eurostars project E10871, UEFISCDI contract no. 59/2017/30.06.2017. |
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| | - i-Light "A pervasive home monitoring system based on intelligent luminaires", Eurostars project no. 9770, 2016. |
| | - "Using Big Data and semantic matching for a job recommendation engine", project with third parties, no. T 46.15.02, 2015. |
| | - "AIMMS - Application for Using Image Data Mining and 3D Modeling in Dental Screening" for teeth contour detection algorithms and pathologies identification, 2015 |
| | - "Person localization through the RSSI signal strength of "intelligent" bulbs", for the Eurostars PrEmiSES project, June 2014 |
| | - "e-Assessment solution CERT EXAM v2.0" for project management professionals where the evaluation is based on the technologies and open-source tools: GATE, WordNet, Text2Onto, OpenNLP, Protégé and Alignment API, October 2014 - February 2015. |
| | - "Improved GROMACS Algorithms using the MPI Parallelization" and "Improved OpenMM Algorithms for CUDA and OpenCL using New Stochastic Dynamics and the Berendsen Thermostat" implementation related to the field of molecular dynamics under to coordination of associate professor Nicolae Goga, University Politehnica of Bucharest and emeritus professor Herman J. C. Berendsen, University of Groningen, Netherlands. |

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| Honours and awards | - Gold medal for the invention "BioTA – Smart Blockchain-Based IoT System for Livestock Farms", at the International Exhibition of Inventions and Innovations "Traian Vuia", Timisoara, Romania, 2025.<br>- ANIS scholarship from Adobe for the integration of new technologies in the university curriculum and innovative teaching methods for the Technologies for Big Data Analysis laboratory in the Master of Software Engineering, POLITEHNICA University of Bucharest, 2021.<br>- Gold medal for the invention "Analytical platform for improving the productivity of dairy farms", within the Exhibition of Scientific Research, Innovation and Invention "PRO INVENT", Cluj-Napoca, Romania, 2020.<br>- Gold medal for the invention "Preeclampsia and detection of secondary diseases based on heart rate and a weighted stratified network", at the Exhibition of Scientific Research, Innovation and Inventions "PRO INVENT", Cluj-Napoca, Romania, 2020.<br>- Bronze medal for the invention "Preeclampsia and detection of secondary diseases based on heart rate and a weighted stratified network", at the International Exhibition of Inventions and Innovations "Traian Vuia", Timisoara, Romania, 2020.<br>- Diploma of Excellence "Justin Capra" for "Preeclampsia and detection of secondary diseases based on heart rate and a weighted stratified network", at the International Exhibition of Inventions and Innovations "Traian Vuia", Timisoara, Romania, 2020.<br>- Prize within the PRECISI 2019 competition organized by the Executive Unit for the Financing of Higher Education, Research, Development and Innovation for the article "i-Light - Intelligent Luminaire Based Platform for Home Monitoring and Assisted Living", submission code PN-III-P1-1.1-precise-2019-40473.<br>- Silver medal for the invention "Automatic diet suggestion system in case of preeclampsia", at the International Exhibition of Inventions and Innovations "Traian Vuia", Timișoara, Romania, 2019.<br>- Bronze medal for the invention "System for monitoring the traceability of dairy products based on the Blockchain technology", at the International Exhibition of Inventions and Innovations "Traian Vuia", Timișoara, Romania, 2019.<br>- Diploma of excellence for "Automatic diet suggestion system in case of preeclampsia", at the International Exhibition of Scientific Research, Innovation and Invention "PRO INVENT", Cluj-Napoca, Romania, 2019.<br>- Diploma of excellence for "System for monitoring the traceability of dairy products based on the Blockchain technology", within the International Exhibition of Scientific Research, Innovation and Invention "PRO INVENT", Cluj-Napoca, Romania, 2019.<br>- Diploma of excellence for "Dairy Traceability Monitoring System Based on Blockchain Technology", within the UGAL INVENT 2019 Innovation and Research Fair, organized by the "Dunărea de Jos" University, Galați, Romania, 2019.<br>- Certificate of Appreciation from the 34th IBIMA International Conference, Madrid, Spain, 2019, in recognition of services to the academic community by serving on the International Committee Board.<br>- Certificate of Excellence from the 34th IBIMA International Conference, Madrid, Spain, 2019, in recognition of distinguished services to the academic community by serving on the International Committee Board.<br>- Graduated in 2015 as valedictorian the Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, specialization in Information Engineering with the GPA of 9.88 (98.8 %) and with 10 (100%) for the bachelor thesis "DICOM Image Processing with Applications in Stomatology using Distributed Systems"<br>- One of the 100 national winners of the IMPACT project POSDRU/155/1.2/S/139950 as a promoter and supervisor of university education, 2015<br>- First prize at the Student Scientific Session, Engineering in French with the paper "Formative e-évaluation pour faciliter la formation des professionnels dans la gestion de projet", coordinated by the lecturer Maria-Iuliana Dascalu, Section 12-2, May 2015<br>- Honorable mention prize at the Student Scientific Session, University Politehnica of Bucharest, Section 12-5, Communication in English, with the paper "The Finger Scanner - Between Thriller and Reality", coordinated by Yollanda Catelly, May 2013<br>- First place in the volleyball competition, Years Cup I, University Politehnica of Bucharest, 2011<br>- Graduated in 2011 as valedictorian the Ion Barbu Theoretical High School, Bucharest, specialization Informatics with the GPA of 9.89 (98.9 %) |
| Memberships | - Member of the BEST student union, 2011-2012<br>- HL7 Romania, 2017 – present<br>- Member of IEEE, INSTICC associations, 2023.<br>- Editorial Board Member of SCIREA Journal of Computer, 2019 - present<br>- Editorial Board Member of IGI Global International Journal of Big Data and Analytics in Healthcare (IJBDAH), 2019 – present<br>- Member of the European Alliance for Innovation, 2024 - present |

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| Reviews | - Reviewer of the Book Publisher International publisher, „Cutting Edge Research in Biology" book, 2022.<br>- Editor of Special Issue "Novel Technologies for Digital Health" of the Applied Sciences Open Access Journal by MDPI, 2022.<br>- UEFISCDI evaluator within the call for projects entitled "Equipping with intelligent laboratories of higher secondary education units, palaces and children's clubs", financed by Investment 9, 2023.<br>- Reviewer of the Elsevier, Engineering Applications of Artificial Intelligence Journal, 2026.<br>- Reviewer of the IEEE, IEEE Access Journal, 2026.<br>- Reviewer of the Springer Nature, International Journal of Intelligent Robotics and Applications, 2026.<br>- Reviewer of the Springer Nature, Discover Electronics Journal, 2026.<br>- Reviewer of the Springer Nature, Discover Cities Journal, 2026.<br>- Reviewer of the Springer Nature, Scientific Reports Journal, 2026.<br>- Reviewer of the Academia Nano: Science, Materials, Technology, 2025.<br>- Reviewer of the Springer Nature, Discover Artificial Intelligence Journal, 2025.<br>- Reviewer of the Springer Nature, Scientific Reports Journal, 2025.<br>- Reviewer of the IEEE 11th International Conference on Control, Decision, and Information Technologies (CoDIT), 2025.<br>- Reviewer of the Second IEEE International Conference on Blockchain, Smart Healthcare and Emerging Technologies, 2025.<br>- Reviewer of the ACM IMX - ACM International Conference on Interactive Media Experiences, 2023.<br>- Reviewer of the Asian Journal of Medicine and Health, 2023.<br>- Reviewer of the Asian Research Journal of Gynaecology and Obstetrics, 2023.<br>- Reviewer of the Asian Journal of Agricultural Extension, Economics & Sociology, 2023.<br>- Reviewer of the MDPI Agronomy Journal, 2023.<br>- Reviewer of the MDPI Dentistry Journal, 2023.<br>- Reviewer of the MDPI Water Journal, 2023.<br>- Reviewer of the MDPI Coatings Journal, 2023.<br>- Reviewer of the MDPI Fractal and Fractional Journal, 2023.<br>- Reviewer of the MDPI Photonics Journal, 2023.<br>- Reviewer of the MDPI Cells Journal, 2023.<br>- Reviewer of the MDPI Recycling Journal, 2023.<br>- Reviewer of the MDPI Biomimetics Journal, 2023.<br>- Reviewer of the MDPI Drones Journal, 2023.<br>- Reviewer of the MDPI Horticulturae Journal, 2023.<br>- Reviewer of the MDPI Cryptography Journal, 2023.<br>- Reviewer of the MDPI Energies Journal, 2023.<br>- Reviewer of the MDPI Journal of Marine Science and Engineering, 2023.<br>- Reviewer of the MDPI Micromachines Journal, 2023.<br>- Reviewer of the MDPI Biomedicines Journal, 2023.<br>- Reviewer of the MDPI Computers Journal, 2023.<br>- Reviewer of the MDPI Brain Sciences Journal, 2023.<br>- Reviewer of the MDPI Forests Journal, 2022.<br>- Reviewer of the MDPI Molecules Journal, 2022.<br>- Reviewer of the MDPI Remote Sensing Journal, 2022 and 2023.<br>- Reviewer of the Reviews in Cardiovascular Medicine Journal, 2022.<br>- Reviewer of the MDPI Cancers Journal, 2022.<br>- Reviewer of the MDPI Applied Sciences Journal, 2022.<br>- Reviewer of the IEEE International Conference on Blockchain, Smart Healthcare and Emerging Technologies, 2022.<br>- Reviewer of the University POLITEHNICA of Bucharest Scientific Bulletin, 2022.<br>- Reviewer of the MDPI Multimodal Technologies and Interaction Journal, 2022.<br>- Reviewer of the Clinical and Experimental Obstetrics & Gynecology Journal, 2022.<br>- Reviewer of the MDPI Big Data and Cognitive Computing, 2022.<br>- Reviewer of the MDPI Future Internet Journal, 2022.<br>- Reviewer of the MDPI Sensors Journal, 2022.<br>- Reviewer of the MDPI Sustainability Journal, 2022.<br>- Reviewer of the MDPI Symmetry Journal, 2021.<br>- Reviewer of the Journal of Advances in Medicine and Medical Research, 2021.<br>- Reviewer of the MDPI Information Journal, 2021.<br>- Reviewer of the 14th IEEE/IAS International Conference on Industry Applications, Escola Politécnica da Universidade de São Paulo, Brazil, 2021.<br>- Reviewer of the International Scientific Conference eLearning and Software for Education, Bucharest, Romania, 2021.<br>- Reviewer of the 36th IBIMA International Conference, Granada, Spain, 2020. |

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| Reviews | - Reviewer of the IEEE Open Journal of Engineering in Medicine and Biology, 2020.<br>- Reviewer of the IET Healthcare Technology Letters Journal, 2020.<br>- Reviewer of the IET Radar, Sonar & Navigation Journal, 2020.<br>- Reviewer of the Journal of Electrical and Computer Engineering, 2020.<br>- Reviewer of the Journal of Pharmaceutical Research International, 2020 and 2021.<br>- Reviewer of the Journal of Ambient Intelligence & Humanized Computing, 2020 and 2021.<br>- Reviewer of Revista Brasileira de Geriatria E Gerontologia, 2020.<br>- Reviewer of the International Journal of Big Data and Analytics in Healthcare (IJBDAH), 2019, 2020, 2021.<br>- Reviewer of the 34th IBIMA International Conference, Madrid, Spain, 2019.<br>- Reviewer of the Journal of Software Engineering, ACTA Press publishing, Canada, 2015. |
| Annexes | - List of scientific papers<br>- Certificates |
| References | - available upon request |