ȚIPLEA MIHAELA
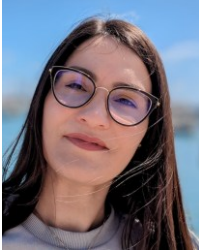
St. Stiintei, no. 2, office building Y, 800146 Galati (Romania)

✉ E-mail: mihaela.tiplea@ugal.ro

PROFESSIONAL EXPERIENCE

Oct.2021 - present	**Lecturer**

Dunarea de Jos University, Galati, Romania

Faculty: Automation, Computer Science, Electrical and Electronics Engineering

Departament: Computer Science and Information Technology

Scientific Research: Medical Image Processing, Computer Vision, Artificial Intelligence.

Course Coordinator:

- **Object Oriented Programming in Python**
- **Numerical Computers I**
- **Big Data Analytics & Learning Analytics**

Iul. 2022 – Iul. 2024	**DocOps Engineer**

Wind River Systems SRL, Galati, Romania

Oct. 2018 – Oct.2021	**Research and Teaching Assistant**

Dunarea de Jos University, Galati, Romania

Faculty: Automation, Computer Science, Electrical and Electronics Engineering

Departament: Computer Science and Information Technology

Mai 2018 – Iun. 2022	**Web Developer**

Wind River Systems SRL, Galati, Romania

Mai 2016 – Mar. 2018	**Web Developer**

Mabuhaisoft SRL, Braila, Romania

Oct. 2014 – Oct. 2018	**Research and Teaching Assistant**

Dunarea de Jos University, Galati, Romania

Faculty: Automation, Computer Science, Electrical and Electronics Engineering

Departament: Electronics and Telecommunications

Sept. 2012 – Sept. 2014	**Teacher**

High School no. 25, Galati, Romania

Course: Information and Communication Technology

TEACHING AND RESEARCH ACTIVITIES

24.11.2014 – 5.12.2014 **Visiting Researcher**
Laboratoire d'informatique – CNRS UMR 8049,
Université Paris-Est, France
France, Paris

4.07.2022 – 11.07.2022 **Mobility** within the Project no. 20-COP-0050
Digitalisation of water sector and water education / DIGIWATRO
Norwegian University of Life Sciences NMBU
Norway, Oslo

9.03.2024 – 15.03.2024 **Training Programme** within the Project no. 2023-1-RO01-KA220-HED-000152883
Erasmus+ ThinkGame
University of Malta
Msida, Malta

2024, project manager, national project „*Software application dedicated to improve diagnostic in medical imaging"*, contract no. RF 2461/31.05.2024.

2024, researcher, national project "*Performance evaluation of a new strategy for managing the electromagnetic energy conversion process based on RBF-NN techniques, compared to well-known MPC methods"*, with reference to PMSM motors", contract no. RF 2462/2024.

2024 – present, researcher, international project "*ThinkGame - (Cooperation to implement Creative Thinking and Gamification for innovative online training of STEM students)*", contract no. 2023-1-RO01-KA220-HED-000152883.

2023 – present, researcher, international project "*Acquiring and Assessing Digital Competence using Micro-credentials - DigitalSkillsWallet*", contract ERASMUS-EDU-2022-PI-FORWARD-LOT1 no. 101087628.

2021 – 2023, researcher, international SEE project "*Digitalisation of Water Sector and Water Education / DIGIWATRO*", contract no. 20-COP-0050.

2021 – 2022, researcher, national project „*Standalone application for improving the clarity of details in medical images*", contract no. RF 3627/30.09.2021.

2014 – 2017, researcher, national project „*Intelligent management, monitoring, and maintenance system for pavements and roads using modern imaging techniques (PAV3M)",* contract no. 3/2014-PN-II-PT-PCCA-2013-4-1762.

Recent Publications

- Totolici, G.; **Miron, M**.; Culea-Florescu, A.-L. *Automatic Segmentation and Statistical Analysis of the Foveal Avascular Zone*. Technologies 2024, 12, 235, WOS:001383697100001.

- **M. Miron**, A. -L. Culea-Florescu and B. Ioan Ştefănescu, "*Cervical Cancer Vascular Segmentation in 3D Power Doppler Ultrasound Using Advanced Deep Learning Models*," 2024 IEEE 20th International Conference on Intelligent Computer Communication and Processing (ICCP), Cluj-Napoca, Romania, 2024, pp. 1-7, doi: 10.1109/ICCP63557.2024.10793044, ISBN:979-8-3315-3997-9.

- **M. Miron**, A. -L. Culea-Florescu and B. I. Ștefănescu, "*Automatic Segmentation of Cervical Cancer Vascular Anatomy from 3D Power Doppler Ultrasound Images*", 2024 15th International Conference on Communications (COMM), Bucharest, Romania, 2024, pp. 1-7, doi: 10.1109/COMM62355.2024.10741504, ISBN:979-8-3503-5595-6.

- Moldovanu, S., **Miron, M.**, Rusu, CG. et al. *Refining skin lesions classification performance using geometric features of superpixels*. Scientific Reports 13, 11463 (2023), WOS:001055239000045.

- Ghinea, L.M.; **Miron, M**.; Barbu, M. *Semi-Supervised Anomaly Detection of Dissolved Oxygen Sensor in Wastewater Treatment Plants*. Sensors 2023, 23, 8022, WOS:001082179900001.

EDUCATION AND TRAINING

2013 – 2018 PhD in Systems Engineering
Dunarea de Jos University, Galati, Romania
Faculty of Automation, Computer Science, Electrical and Electronics Engineering

2011 – 2013 MScEng in Advanced Signal Processing Methods
Dunarea de Jos University, Galati, Romania
Faculty of Automation, Computer Science, Electrical and Electronics Engineering

2007 – 2011 BEng in Technologies and Telecommunication Systems
Dunarea de Jos University, Galati, Romania
Faculty of Automation, Computer Science, Electrical and Electronics Engineering

PERSONAL COMPETENCIES

Native Language Romanian

Foreign Languages English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: independent user - C1/C2: proficient user
Common European Framework of Reference for Language skills

Communication skills Communication, adaptability, flexibility and responsibility

Organizational/managerial skills Punctuality, decision-making, delegating effectively and mentoring

Member of the conference organizing committee
- **ICSTCC 2022** - 26th International Conference on System Theory, Control and Computing
- **ETFA 2023** - 28th Annual Conference of the IEEE Industrial Electronics Society (IES)

Member of the organizing committee - "Emil Ceangă" Student Scientific Communications Session

Digital skills

SELF-ASSESMENT				
Information processing	Communication	Content creation	Security	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user – Independent user – Proficient user
Digital Skills - Self-assesment

Certificate of professional competencies in computer operation and programming: C#, Java, Python, HTML, Javascript, XML, XSLT

Other skills Public speaking, multitasking, analytical thinking