

Katerina Tzimourta, PhD

ASSOCIATE PROFESSOR
INFORMATICS AND TELECOMMUNICATIONS ENGINEER

+30 697 9636 280 | ktzimourta@uowm.gr | Kozani, Greece | ktzimourta.com

SHORT CV

Dr. Katerina Tzimourta is an Associate Professor in the Department of Product and Systems Design Engineering at the University of Western Macedonia. She holds a Diploma in Informatics and Telecommunications Engineering from the same university and a PhD in Medical Informatics from the University of Ioannina. Her research focuses on biosignal processing, machine learning algorithms, and the design and development of brain–computer interfaces. Her work centers on applying computational methods and developing intelligent systems for digital health and clinical decision support. She has published more than 50 papers in international scientific journals and conference proceedings and actively participates in co-funded national and European research projects. She is a member of IEEE, the IEEE Engineering in Medicine and Biology Society (IEEE EMBS), the BCI Society, the Hellenic Society for Biomedical Technology (ELEVIT), the Panhellenic Scientific Association Against Epilepsy (GRLAE), and the Technical Chamber of Greece (TEE).

EXPERIENCE

10.2026 – Today
Associate Professor, Department of Product and Systems Design Engineering, University of Western Macedonia

02.2026 – 09.2026
Assistant Professor, Department of Midwifery, University of West Attica

03.2023 – Today
Collaborating Faculty Member in the Interdepartmental Postgraduate Programme Digital Health and Health Services Management, Dept. of Electrical & Computer Engineering, University of Western Macedonia

05.2018 – Today
Research activity as an Informatics and Telecommunications Engineer, contributing to co-funded projects in collaboration with companies, local authorities, and healthcare organizations.

09.2020 – 09.2024
Postdoctoral Researcher, Health Data Science Laboratory, Department of Electrical and Computer Engineering, University of Western Macedonia.

03.2020 – 09.2024
Adjunct Lecturer. Teaching experience in the following departments:

- Department of Informatics & Telecommunications, University of Ioannina

EDUCATION

2015 M.Eng.
in ***Informatics & Telecommunications Engineering***,
Dept. of Informatics & Telecommunications Engineering, School of Engineering,
University of Western Macedonia, Kozani, GR

2025 M.Ed. in "***Education & Technologies in distance teaching and learning systems*** -
Educational Sciences,
School of Humanities,
Hellenic Open University, Patra, GR

2020 Ph.D.
in ***Medical Informatics***,
School of Medicine,
University of Ioannina,
Ioannina, GR

2024 Postdoctoral Research
on **Brain–Computer Interface Development**
Department of Electrical and Computer Engineering, School of Engineering
University of Western Macedonia, Kozani, Greece

- Department of Mechanical Engineering, Aristotle University of Thessaloniki
- Department of Communication & Digital Media, University of Western Macedonia
- Department of Electrical and Computer Engineering, University of Western Macedonia.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

10.2025 – Today
Project GA101218966. "**UNICA** - Unified Network for International CancerAdvancement". *Budget: 4.985 247,70€*

04.2025 – 05.2026
Project ΥΠ3ΤΑ-0559562. "**CONSENT** - Advanced Techniques and Tools for Dynamic Consent Management in Complex Data Flows"**.** *Budget:650.000€*

10.2025 – 12.2025
Project ΟΠΣ5223198. "Strengthening Public Health Monitoring through the Use of Health Data (**Health Monitoring**)". *Budget: 28.024.000 €*

01.2024 – 12.2025
Project TAEDR-0535983. "**safe-AORTA:** Decision Support System for Abdominal Aortic Aneurysm Disease Based on Artificial Intelligence Models"**.** *Budget: 2.457.948,50€*

07.2023 – 06.2026
Project GA 101083630. "**smartHEALTH** - European Digital Innovation Hub for Smart Health: Precision Medicine and Innovative E-health Services *Budget: 3.622.378€*

03.2023 – 05.2025
Project 5158681. "**Doctoral program** of the Department of Electrical and Computer Engineering" under the action "Internalization actions of University of Western Macedonia"**.**

09.2023 – 10.2023
Project MIS 5047221. "**Epirus XR Center** – Regional Center for Advanced Research in Virtual, Augmented and Mixed Reality (VR/AR/MR) Technologies. *Budget: 1.151.400,00€*

09.2020 – 10.2023
Project 5069902/Τ2ΕΔΚ-02438. "**Intelli-WheelChair**: Intelligent electric wheelchair exclusively driven by mental and voice commands", Research Committee of the University of Western Macedonia. *Budget: 757.277,85€*

05.2018 – 12.2018
External Expert, Business Plan for the **Ioannina Smart City Project**, Special Account for Research Grants, Technological Educational Institute of Epirus.

PUBLICATIONS

Total Publications: **55**

- Peer-reviewed International Journals: 33
- peer-reviewed International Conferences: 18

RESEARCH EXPERTISE

- ✓ HUMAN-CENTERED DESIGN OF INTERACTIVE SYSTEMS
- ✓ BRAIN–COMPUTER INTERFACES
- ✓ HEALTH DATA SCIENCE
- ✓ EEG AND OTHER BIOSIGNAL PROCESSING
- ✓ MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE IN HEALTHCARE
- ✓ CLINICAL DECISION-SUPPORT SYSTEMS
- ✓ DIGITAL HEALTH

Full list of Publications: http://ktzimourta.com/publications/

CITATIONS

- 1496 references (source: Scopus), h-index = 17
  https://www.scopus.com/authid/detail.uri?authorId=57197857448

- 2497 references (source: Google Scholar), h-index = 25, i10-index = 31
  https://scholar.google.gr/citations?user=L45oEJcAAAAJ&hl=el