



Katerina Tzimourta, PhD

IT ENGINEER

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SHORT CV

Dr. Katerina Tzimourta is an Assistant Professor at the University of West Attica, Greece. She holds a Diploma in Informatics and Telecommunications Engineering and a PhD in Medical Informatics. Her research activity focuses on biosignal processing, machine learning, and brain-computer interfaces, with particular emphasis on the use of computational methods and intelligent technologies in digital health and clinical decision support. She has authored more than 50 publications in international scientific journals and conference proceedings and she actively contributes to co-funded research projects, undertaking roles in scientific and technical implementation, action coordination and deliverable development.

EXPERIENCE

02.2026 – Today

Assistant Professor in *Intelligent Technology and Applications in Midwifery Care*, Department of Midwifery, University of West Attica

09.2020 – Today

Researcher & Lecturer, Dept. of Electrical & Computer Engineering, University of Western Macedonia

03.2020 – 03.2024

Adjunct Lecturer, Department of Informatics & Telecommunications, University of Ioannina

03.2024 – 06.2024

Adjunct Lecturer, Department of Mechanical Engineering, Aristotle University of Thessaloniki

10.2021 – 01.2022

Adjunct Lecturer, Department of Communication & Digital Media, University of Western Macedonia

PARTICIPATION IN FUNDED RESEARCH PROJECTS

10.2025 – Today

Project [GA101218966](#). "UNICA - Unified Network for International Cancer Advancement". *Budget: 4.985 247,70€*

06.2025 – Today

EDUCATION

2015 M.Eng.

in **Informatics & Telecommunications**, Dept. of Informatics & Telecommunications 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

SKILLS

- ✓ PROJECT COORDINATION & GRANT WRITING
- ✓ RESEARCH DESIGN & METHODOLOGY
- ✓ BIOMEDICAL SIGNAL PROCESSING (EEG/BCI)
- ✓ SCIENTIFIC WRITING
- ✓ ORGANIZATION

Project **YP3TA-0559562**. “**CONSENT** - Advanced Techniques and Tools for Dynamic Consent Management in Complex Data Flows”. Budget: 650.000€

01.2024 – Today

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 – Today

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/T2EΔK-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

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: 17

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

[1] **K.D. Tzimourta**, “Machine Learning Algorithms in EEG Analysis of Kleefstra Syndrome: Current Evidence and Future Directions,” *Sensors*, vol. 25, no.11, p. 3420, 2025

[2] **K. D. Tzimourta, et al.**, “Machine Learning Algorithms and Statistical Approaches for Alzheimer’s Disease Analysis Based on Resting-State EEG Recordings: A Systematic Review”, *Intern. Journal. of Neural Systems*, 2021.

[3] A. Miltiados, **K. D. Tzimourta, et al.**, “Machine Learning Algorithms for Epilepsy Detection based on published EEG databases: A Systematic Review”, *IEEE Access*, vol. 11, pp. 564 – 594, 2023.

CITATIONS

- 1204 references (source: Scopus), h-index = 17
<https://www.scopus.com/authid/detail.uri?authorId=57197857448>
 - 1963 references (source: Google Scholar), h-index = 22, i10-index = 30
<https://scholar.google.gr/citations?user=L45oEJcAAAAJ&hl=el>
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- ✓ EXCELLENT WRITTEN/ VERBAL COMMUNICATION
- ✓ TIME MANAGEMENT
- ✓ ATTENTION TO DETAIL
- ✓ PROBLEM-SOLVING