



Lampros Mpaltadoros

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ABOUT MYSELF

I hold an Eng. Diploma degree in Electrical and Computer Engineering from the Polytechnic department and a MSc degree in Medical Informatics from the Medical School of Aristotle University, Thessaloniki, Greece. Guided by innovation, I am always in search for new opportunities to expand my knowledge in the fields of Biomedical Engineering and eHealth technologies.

EDUCATION AND TRAINING

2020 – 2022 Thessaloniki, Greece

MSC DEGREE | MEDICAL INFORMATICS Aristotle University Thessaloniki

Final grade 9.34 | **Type of credits** ECTS | **Number of credits** 120 |

Thesis VITALISE Discovery Portal: A Smart and interoperable Platform for health data discovery based on Living Lab collections

2012 – 2019 Thessaloniki, Greece

ENGINEERING DIPLOMA | ELECTRICAL AND COMPUTER ENGINEERING Aristotle University Thessaloniki

Final grade 6.86 | **Type of credits** ECTS | **Number of credits** 301 | **Thesis** Radon Concentration in Water Supply Study

WORK EXPERIENCE

 **CENTRE FOR RESEARCH & TECHNOLOGY HELLAS – THESSALONIKI, GREECE**

Department Information Technology Institute

RESEARCH ASSOCIATE – 10/2019 – CURRENT

Writing, support and implementation of EU and national-funded projects in the eHealth Domain

Main Roles:

- Proposal Writing for competitive actions (e.g. HORIZON, IHI)
- IoT sensor data collection and analysis in Alzheimer's disease
- Plantar pressure data analysis and redistribution for people living with Diabetes
- Technology package oversight for national/pan-EU clinical trials

PROJECTS

01/01/2019 – 30/06/2023

RADAR-AD

Development and validation of technology enabled, quantitative and sensitive measures of functional decline in people with early stage Alzheimer's Disease

Link <https://www.radar-ad.org/>

01/09/2019 – CURRENT

Trials@Home

Trials@Home aims to explore the potential of digital technologies for use in 'remote decentralised clinical trials' (RDCTs).

Link <https://trialsathome.com/>

01/04/2021 – 31/03/2024

VITALISE

VITALISE project grants free Transnational Access to external researchers from multiple disciplines to the project's Livings Lab Research Infrastructures.

Link <https://vitalise-project.eu/>

01/06/2023 – CURRENT

PREPARE

PREPARE improves the lives of people with chronic noncommunicable diseases by developing tools that will enable patients and their healthcare providers to select optimal therapy strategies.

Link <https://prepare-rehab.eu/>

16/06/2020 – 31/12/2022

uPrevent

Development of a smart insole for foot ulcer prevention in diabetic patients.

Link <https://uprevent-project.gr/en/objectives/>

● VOLUNTEERING

01/01/2017 – 01/07/2019 IEEE Student Branch AUTH, Engineering in Medicine and Biology Society

Event Organizer

Key Responsibilities:

- Co-organized and attended various events in the field of
- Biomedical Engineering (Lectures, Workshops and Hackathons)

Link <https://emb.web.auth.gr/en/>

● LANGUAGE SKILLS

Mother tongue(s): **GREEK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
GERMAN	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● SKILLS

Microsoft Office

Data Science

Python | R | Matlab

Design

Canva | Lucidchart | CAD | Figma | Sketchup

Web Development

HTML | CSS | Django Rest FWK | Flask Web Framework | SQL | MongoDB

Game Development

Unity | C#

● PUBLICATIONS

A discovery portal for smart health-related data exploration and management based on a hybrid Service-and-Data-Oriented Architecture

V. Fiska, L. Mpaltadoros, A. M. Medrano Gil, G. C. Sanchez, T. G. Stavropoulos, S. Nikolopoulos. "A discovery portal for smart health-related data exploration and management based on a hybrid Service-and-Data-Oriented Architecture," 2024 11th International Conference on Software Defined Systems (SDS), Gran Canaria, Spain, 2024, pp. 11-18, doi: 10.1109/SDS64317.2024.10883926.

The Digital Platform and Its Emerging Role in Decentralized Clinical Trials

Copland R, Hanke S, Rogers A, Mpaltadoros L, Lazarou I, Zeltsi A, Nikolopoulos S, MacDonald T, Mackenzie I. The Digital Platform and Its Emerging Role in Decentralized Clinical Trials. J Med Internet Res 2024;26:e47882. URL: <https://www.jmir.org/2024/1/e47882>. DOI: 10.2196/47882

A Secure Data Publishing and Access Service for Sensitive Data from Living Labs: Enabling Collaboration with External Researchers via Shareable Data. Big Data and Cognitive Computing

Hernandez M, Konstantinidis E, Epelde G, Londoño F, Petsani D, Timoleon M, Fiska V, Mpaltadoros L, Maga-Nteve C, Machairas I, et al. A Secure Data Publishing and Access Service for Sensitive Data from Living Labs: Enabling Collaboration with External Researchers via Shareable Data. Big Data and Cognitive Computing. 2024; 8(6):55. <https://doi.org/10.3390/bdcc8060055>

A Semantic Framework to Detect Problems in Activities of Daily Living Monitored through Smart Home Sensors

Giannios G, Mpaltadoros L, Alepopoulos V, Grammatikopoulou M, Stavropoulos TG, Nikolopoulos S, Lazarou I, Tsolaki M, Kompatsiaris I. A Semantic Framework to Detect Problems in Activities of Daily Living Monitored through Smart Home Sensors. Sensors. 2024; 24(4):1107. <https://doi.org/10.3390/s24041107>

Assessing the cognitive decline of people in the spectrum of AD by monitoring their activities of daily living in an IoT-enabled smart home environment: a cross-sectional pilot study

Grammatikopoulou M, Lazarou I, Alepopoulos V, Mpaltadoros L, Oikonomou VP, Stavropoulos TG, Nikolopoulos S, Kompatsiaris I and Tsolaki M (2024) Assessing the cognitive decline of people in the spectrum of AD by monitoring their activities of daily living in an IoT-enabled smart home environment: a cross-sectional pilot study. Front. Aging Neurosci. 16:1375131. doi: 10.3389/fnagi.2024.1375131

Stepping Forward: A Scoping Systematic Literature Review on the Health Outcomes of Smart Sensor Technologies for Diabetic Foot Ulcers

Lazarou I, Fiska V, Mpaltadoros L, Tsaopoulos D, Stavropoulos TG, Nikolopoulos S, Dafoulas GE, Dailiana Z, Bargiota A, Kompatsiaris I. Stepping Forward: A Scoping Systematic Literature Review on the Health Outcomes of Smart Sensor Technologies for Diabetic Foot Ulcers. Sensors. 2024; 24(6):2009. <https://doi.org/10.3390/s24062009>

Prototype Testing of a Smart Footwear Device with Sensors and Plantar Pressure Distribution for the Prevention of Diabetic Foot Ulcers

V. Fiska, L. Mpaltadoros, G. E. Dafoulas, T. G. Stavropoulos, T. Patas, F. Tsilfoglou, D. E. Tsaopoulos, G. Giakas, S. Nikolopoulos, I. Kompatsiaris, Z. X. Ntailiana and A. Bargiota "Prototype Testing of a Smart Footwear Device with Sensors and Plantar Pressure Distribution for the Prevention of Diabetic Foot Ulcers", 9th Panhellenic Conference of the Hellenic Association for the Study of Diabetic Foot Disease, 1-4 February 2024, Thessaloniki, Greece

Combined Multicomponent Interventions for older adults in a Smart Home Living lab

S. Segkouli, L. Mpaltadoros, A. T. Patenidis, V. Alepopoulos, A. Skoumbourdi, M. Grammatikopoulou, I. Kalamaras, I. Lazarou, P. Bamidis, D. Petsani, E. Konstantinidis, T. Santonen, S. Nikolopoulos, I. Kompatsiaris, K. Votis, D. Tzovaras, Combined Multicomponent Interventions for older adults in a Smart Home Living lab, 21st International Conference on

Processing and Redistribution of Plantar Pressure as part of a Smart In-Sole System for Foot Ulcer Prevention in Diabetic Patients

L. Mpaltadoros, V. Fiska, T.G. Stavropoulos, T. Patas, F. Tsilfoglou, S. Poullos, G. Bellis, G. Giakas, G.E. Dafoulas, Z.X. Dailiana, A. Bargiota, S. Nikolopoulos, D.E. Tsaopoulos and I. Kompatsiaris, "Processing and Redistribution of Plantar Pressure as part of a Smart In-Sole System for Foot Ulcer Prevention in Diabetic Patients", 10th Panhellenic Conference on Biomedical Technologies, 6-8 October 2023, Thessaloniki, Greece

First insights exploring Activities of Daily Living performance captured through activity sensors in a Smart Home Environment as an indicator of cognitive decline: A cross-sectional Analysis

Alepopoulos, V., Grammatikopoulou, M., Lazarou, I., Mpaltadoros, L., Nikolopoulos, S., Oikonomou, V.P., Stavropoulos, T.G., Tsolaki, M. and Kompatsiaris, I. (2023), First insights exploring Activities of Daily Living performance captured through activity sensors in a Smart Home Environment as an indicator of cognitive decline: A cross-sectional Analysis. *Alzheimer's Dement.*, 19: e071138. <https://doi.org/10.1002/alz.071138>

Eliciting brain waves of people with cognitive impairment during meditation exercises using portable electroencephalography in a smart-home environment: a pilot study

Lazarou I, Oikonomou VP, Mpaltadoros L, Grammatikopoulou M, Alepopoulos V, Stavropoulos TG, Bezerianos A, Nikolopoulos S, Kompatsiaris I, Tsolaki M and RADAR-AD Consortium (2023) Eliciting brain waves of people with cognitive impairment during meditation exercises using portable electroencephalography in a smart-home environment: a pilot study. *Front. Aging Neurosci.* 15:1167410. doi: 10.3389/fnagi.2023.1167410

uPrevent: Project Overview of a Smart Insole for Diabetic Foot Ulcer Prevention

V. Fiska, L. Mpaltadoros, I. Lazarou, D. E. Tsaopoulos, G. Bellis, G. Giakas, F. Tsilfoglou, A. Patas, T. G. Stavropoulos, S. Nikolopoulos, I. Kompatsiaris "uPrevent: Project Overview of a Smart Insole for Diabetic Foot Ulcer Prevention", 13th PANHELLENIC CONFERENCE OF ALZHEIMER'S DISEASE (PICAD) and 5th MEDITERRANEAN CONFERENCE ON NEURODEGENERATIVE DISEASES (MeCoND), 9-12 February 2023, Thessaloniki, Greece (Hybrid Conference)

Diabetic Foot Ulcer Prevention Through Footwear Sensing Technology: A Literature Review

G. Dafoulas, L. Mpaltadoros, V. Fiska, T. G. Stavropoulos, I. Lazarou, D. E. Tsaopoulos, G. Bellis, C. Kokkotis, G. Giakas, F. Tsilfoglou, T. Patas, Z. Dailiana, S. Nikolopoulos, I. Kompatsiaris and A. Bargiota, "Diabetic Foot Ulcer Prevention Through Footwear Sensing Technology: A Literature Review", 18th Scientific Meeting of the Diabetic Foot Study Group, 16-18 September 2022, Bratislava, Slovakia

Monitoring daily activity of people living with cognitive impairment using wearable sensors and a tailored platform for health-care professionals: A long-term observational study

I. Lazarou, T. G. Stavropoulos, L. Mpaltadoros, M. Grammatikopoulou, S. Nikolopoulos, I. Kompatsiaris, M. Tsolaki, Monitoring daily activity of people living with cognitive impairment using wearable sensors and a tailored platform for health-care professionals: A long-term observational study, 35th Global Conference of Alzheimer's Disease International, June 2022, London, U.K and online event (Oral presentation)

Exploring Classification in Open and Closed Eyes EEG Data for People with Cognitive Disorders

I. Chouvarda, L. Mpaltadoros, I. Boutziona, G. N. Tsakonas, M. Tsolaki and K. Diamantaras, "Exploring Classification in Open and Closed Eyes EEG Data for People with Cognitive Disorders", BIOSIGNALS - 15th International Conference on Bio-inspired Systems and Signal Processing, 9-11 February 2022

Personalized Fashion On-Demand and e-Fashion Business Models: A User Survey in Greece

Papachristou, E., Dimou, Z., Grammatikopoulou, M., Mpaltadoros, L., Stavropoulos, T.G. (2022). Personalized Fashion On-Demand and e-Fashion Business Models: A User Survey in Greece. In: Kyratsis, P., Efklidis, N., Davim, J.P. (eds)

Prevention of Diabetic Foot Ulcer with Footwear Detection Technology: A Literature Review

L. Mpaltadoros, V. Fiska, G. E. Dafoulas, T. G. Stavropoulos, D. E. Tsaopoulos, I. Kompatsiaris, Z.X. Ntailiana and A. Bargiota, "Prevention of Diabetic Foot Ulcer with Footwear Detection Technology: A Literature Review", 34th Panhellenic Annual Conference of the Diabetological Society of Northern Greece, 10-14 November 2021, Thessaloniki, Greece (Hybrid Conference)

Rule-Based Detection of Health-related Problems of People with Dementia from Lifestyle Wearables: The support2LIVE Approach

L. Mpaltadoros, V. Alepopoulos, A. Pliatsios, A. V. Vasileiadis, T. G. Stavropoulos, S. Nikolopoulos, I. Kompatsiaris, Rule-Based Detection of Health-related Problems of People with Dementia from Lifestyle Wearables: The support2LIVE Approach, International Journal on Advances in Life Sciences, 2021, vol 13, no 3&4, pages: 32 – 41

Detection of Health-Related Events and Behaviours from Wearable Sensor Lifestyle Data Using Symbolic Intelligence: A Proof-of-Concept Application in the Care of Multiple Sclerosis

Stavropoulos, T.G.; Meditskos, G.; Lazarou, I.; Mpaltadoros, L.; Papagiannopoulos, S.; Tsolaki, M.; Kompatsiaris, I. Detection of Health-Related Events and Behaviours from Wearable Sensor Lifestyle Data Using Symbolic Intelligence: A Proof-of-Concept Application in the Care of Multiple Sclerosis. *Sensors* 2021, 21, 6230. <https://doi.org/10.3390/s21186230>

Prediction of Sleep Micro-arousals through Machine Learning Tools: A Polysomnographic Study during Microgravity Analogue Environment

L. Mpaltadoros, S. Mantziou, K. Gavrilaki, N. Syrmos, C. A. Frantzidis, P. D. Bamidis, C. Kourtidou-Papadeli, "Prediction of Sleep Micro-arousals through Machine Learning Tools: A Polysomnographic Study during Microgravity Analogue Environment", 9th Panhellenic Conference on Biomedical Technologies, 9-11 September 2021, Thessaloniki, Greece

Support2LIVE: Wearable Sensors, Analytics and the WeAreFamily App for Assisted Living with Dementia

L. Mpaltadoros, T. G. Stavropoulos, I. Lazarou, V. Alepopoulos, S. Nikolopoulos, V. Ganosi, C. Bourlis, M. Tsolaki and I. Kompatsiaris, "Support2LIVE: Wearable Sensors, Analytics and the WeAreFamily App for Assisted Living with Dementia", 9th Panhellenic Conference on Biomedical Technologies, 9-11 September 2021, Thessaloniki, Greece

The uPrevent Project: A Smart In-sole System for Foot Ulcer Prevention in Diabetic Patients

V. Fiska, L. Mpaltadoros, T. G. Stavropoulos, G. E. Dafoulas, A. Bargiota, S. Poulios, T. Patas, G. Giakas, G. Bellis, S. Nikolopoulos, D. E. Tsaopoulos and I. Kompatsiaris, "The uPrevent Project: A Smart In-sole System for Foot Ulcer Prevention in Diabetic Patients", 9th Panhellenic Conference on Biomedical Technologies, 9-11 September 2021, Thessaloniki, Greece

An app to measure functional decline in managing finances in Alzheimer'sFirst Insight disease: preliminary results of the RADAR-AD study

T. G. Stavropoulos, L. Mpaltadoros, I. Lazarou, M. Grammatikopoulou, M. Muurling, C. de Boer, J. Curcic, R. Kouzak, H. Verheij, V. JM. Nies, A. Durudas, K. Hannesdottir, C. Hinds, Y. Daskalova, A. P. Owens, Y. Wu, G. Erdemli, P; Stolk, F; Lucivero, V. A. Narayan, D. Aarsland, S. Nikolopoulos, M. Tsolaki, P. J. Visser and I. Kompatsiaris, "An app to measure functional decline in managing finances in Alzheimer'sFirst Insight disease: preliminary results of the RADAR-AD study", Alzheimer's Association International Conference (AAIC) 2021

Support2LIVE: A system to monitor and support the care of dementia using wearables

T. G. Stavropoulos, I. Lazarou, L. Mpaltadoros, S. Nikolopoulos, I. Kompatsiaris, M. Tsolaki, "Support2LIVE: A system to monitor and support the care of dementia using wearables", 12th Panhellenic Conference of Alzheimer's Disease and

Human factors, device selection and application development for the RADAR-AD Study on digital biomarkers for Alzheimer's Disease

T. G. Stavropoulos, I. Lazarou, L. Mpaltadoros, S. Nikolopoulos, I. Kompatsiaris, M. Tsolaki, "Human factors, device selection and application development for the RADAR-AD Study on digital biomarkers for Alzheimer's Disease", 12th Panhellenic Conference of Alzheimer's Disease and 4th Mediterranean Conference on Neurodegenerative Diseases, PICAD & MeCoND, 18-21 February 2021, Thessaloniki, Greece

Human Factors and Requirements of People with Cognitive Impairment, their Caregivers and Healthcare Professionals for mHealth Apps including Reminders, Games and Geolocation Tracking: A Survey-Questionnaire Study

I. Lazarou, T. G. Stavropoulos, L. Mpaltadoros, S. Nikolopoulos, G. Koumanakos, M. Tsolaki, I. Kompatsiaris, "Human Factors and Requirements of People with Cognitive Impairment, their Caregivers and Healthcare Professionals for mHealth Apps including Reminders, Games and Geolocation Tracking: A Survey-Questionnaire Study", Journal of Alzheimer's Disease Reports

IoT Wearable Sensors and Devices in Elderly Care: A Literature Review

T. G. Stavropoulos, A. Papastergiou, L. Mpaltadoros, S. Nikolopoulos, and I. Kompatsiaris, "IoT Wearable Sensors and Devices in Elderly Care: A Literature Review," Sensors, vol. 20, no. 10, p. 2826, May 2020 [Online]. Available: <http://dx.doi.org/10.3390/s20102826>

Wearable Sensors and Smartphone Apps as Pedometers in eHealth: a Comparative Accuracy, Reliability and User Evaluation

T. G. Stavropoulos, S. Andreadis, L. Mpaltadoros, S. Nikolopoulos and I. Kompatsiaris, "Wearable Sensors and Smartphone Apps as Pedometers in eHealth: a Comparative Accuracy, Reliability and User Evaluation," 2020 IEEE International Conference on Human-Machine Systems (ICHMS), 2020, pp. 1-6, doi: 10.1109/ICHMS49158.2020.9209441.