CURRICULUM VITAE

Lefteris (Eleftherios) Kontopodis, PhD, Dipl-Ing, BSc.

CONTACT INFORMATION

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Web	LinkedIn, Google Scholar, UNIWA

EDUCATION

December 2018 - February 2025 (expected)
Five years Diploma in Visual Arts, Athens School of Fine Arts
Department of Painting
Under the supervision of prof. Zafos Xagoraris

March 2015 - July 2020
PhD in quantitative MRI Medical Imaging, University of Crete
School of Medicine
PhD Thesis*: Multi parametric analysis of quantitative indexes of multiple non-conventional MRI techniques for Multi Sclerosis and Clinical Isolated Syndrome patients*

April 2007 - July 2011
Five years Diploma, National Technical University of Athens
School of Electrical and Computer Engineering
Specialization in Electronics and Systems
Diploma Thesis: *Applications of image segmentation algorithms to archaeological digital object representations*

September 1999 - September 2004
BSc in Biomedical Engineering,
Technological Educational Institute of Athens
Faculty of Technological Applications **(**now UNIWA - BME)
Biomedical Technology, Biomedical Instrumentation, Medical Physics
Bachelor Thesis: *Implementation of a Voice Recognition System*

September 1996 - June 1999
Senior High School, 1st Technical Vocational Lyceum of Heraklion, Crete
Department of Electronics, Installations and Automations

PROFESSIONAL EXPERIENCE

July 2023 - Present
Postdoc Researcher at University of West Attica - UNIWA
Department of Biomedical Engineering
Comparative study of emotion recognition using EEG and fNIRS modalities

January 2022 - December 2022
Research Associate at National and Kapodistrian University of Athens (NKUA)
School of Medicine
MSc "Global Health – Disaster Medicine"
Incorporating Arts into the Clinical Practice

June 2012 - May 2021
Research Assistant at Foundation of Research and Technology - Hellas (FORTH)
Computational Bio-Medicine Laboratory - CBML
Medical Image Analysis, Quantitative Magnetic Resonance Imaging (MRI)

October 2011- March 2012
Internship in European Patent Office (Den Haag) (EPO)
Patent Classification
Diagnostic Imaging using X-ray, Magnetic Resonance Imaging and Ultrasound modalities, Detecting, measuring or recording for diagnostic purposes

TEACHING EXPERIENCE

March 2022 - July 2024
Adjunct Professor
University of West Attica, Department of Biomedical Engineering
"Pattern Recognition in Medicine and Biology", "Artificial Neural Networks", "Evolutionary Computation", "Computer Programming", "Medical Electronics", "Medical Instrumentation", "Data Science in Medicine and Biology", "Decision Support Systems", "Optical Microscopy and Medical Image Analysis"

RESEARCH PROJECTS

2024 Clinical decision support system for abdominal aortic aneurysm disease based on artificial intelligence models - Safe Aorta, National Recovery and Resilience Plan, Ref.No: 68165200 (national)

2021 Implementation of fMRI methods, development of parallel processing algorithms for enhancing precision tensors, K.A. 10094, ΕΥΔΕ ΕΤΑΚ 2592 /18-7-2018 (national)

2013-2015 Development of therapeutic models for prediction of tumur treatment outcome, involving pharmacokinetics, pharmacodynamics and optimal in-silico dosage, Computational Horizons in Cancer: Developing Meta- and Hyper-Multiscale Models and Repositories for In Silico Oncology, FP7-ICT-2011.5.2 (600841)

REVIEWER

Nature Scientific Reports (2 articles)

Journal of Cancer Research and Clinical Oncology (1 article)

RESEARCH INTERESTS

- *Arts, Science Technology*
- *Brain and Mind investigation*
- *Human ⇔ Machine Interaction*

SCHOLARSHIPS - MEMBERSHIPS

PhD funded by Hellenic Foundation for Research and Innovation (H.F.R.I)

ARCHERS ("Advancing Young Researchers' Human Capital in Cutting Edge Technologies in the Preservation of Cultural Heritage and the Tackling of Societal Challenges") Stavros Niarchos Foundation

Member of TECHNO-LOGIA Hub, Research Dissemination Hub on Art in a Techno-Logical Society

PROGRAMMING – COMPUTER SKILLS Matlab, Python, C, Arduino, Computer Hardware

LANGUAGES Greek (Native Speaker) - English (First Certificate in English)

GROUP (ARTISTIC) EXHIBITIONS

1. Dans L'image - Inside The Image - Re-enacting cinema through extended media, Athens 12-2023 (pending), Random Walk, interactive participatory installation, Fournos Lab and École nationale supérieure des Arts Décoratifs, **Kontopodis Lefteris**, Roussos Tassos, Zoi Stavroula
2. Chaniartoon festival, Chania, 2023, "Random Walk", interactive participatory installation, **Kontopodis Lefteris**, Roussos Tassos, Zoi Stavroula.
3. Platforms, ASFA Open Spaces, 2019, "The Cave", interactive installation, **Kontopodis Lefteris**.
4. Tehni Kathodon, Heraklion Municipality, 2017 "Ink on Paper", **Kontopodis Lefteris**.

SCIENTIFIC PUBLICATIONS

Periodicals (9)

1. **Kontopodis, E.**, Papadaki, E., Trivizakis, E., Maris, T. G., Simos, P., Papadakis, G. Z….. & Marias, K. (2021). Emerging deep learning techniques using magnetic resonance imaging data applied in multiple sclerosis and clinical isolated syndrome patients. Experimental And Therapeutic Medicine, 22(1149).
2. **Kontopodis, E**., Marias, K., Manikis, G., Nikiforaki, K., Venianaki, M., Maris, T., & Papadaki, E. (2020). Extended perfusion protocol for MS lesion quantification. Open Medicine, 15(1), 520-530.
3. Katerina Nikiforaki, Georgios C Manikis, **Eleftherios Kontopodis**, Eleni Lagoudaki, Eelco de Bree, Kostas Marias, Apostolos H Karantanas, Thomas G Maris (2019). T2, T2* and spin coupling ratio as biomarkers for the study of lipomatous tumors. Physica Medica, Elsevier.
4. **Kontopodis**, E., Venianaki, M., Manikis, G., Nikiforaki, K., Salvetti, O., Papadaki, E., Papadakis, G., Karantanas, A., & Marias, K. (2019). Investigating the role of model-based and model-free imaging biomarkers as early predictors of neoadjuvant breast cancer therapy outcome. IEEE J Biomed Health Inform, IEEE (https://www.ncbi.nlm.nih.gov/pubmed/30716054), doi: 10.1109/JBHI.2019.2895459.
5. Venianaki, M., Salvetti, O., de Bree, E., Maris, Th.G., Karantanas, A., **Kontopodis**, E., Nikiforaki, K., & Marias, K. (2018). Pattern recognition and pharmacokinetic methods on DCE-MRI data for tumor hypoxia mapping in sarcoma. Multimedia Tools and Applications, 77(8), 9417-9439, Springer US (1573-7721 (Online ISSN)), doi: https://doi.org/10.1007/s11042-017-5046-6.
6. Spanakis, M., **Kontopodis**, E., Van Cauter, S., Sakkalis, V., & Marias, K. (2016). Assessment of DCE-MRI parameters for brain tumors through implementation of physiologically –based pharmacokinetic models approaches for Gd-DOTA. Journal of Pharmacokinetics and Pharmacodynamics, 19 September 2016, 43(5), 529-547, Springer US (1567-567X, 1573-8744 , https://doi.org/10.1007/s10928-016-9493-x), doi: 10.1007/s10928-016-9493-x.
7. Roniotis, A., Oraiopoulou, M.E., Tzamali, E., **Kontopodis**, E., Van Cauter, S., Sakkalis, V., & Marias, K. (2015). A proposed paradigm shift in initializing cancer predictive models with DCE-MRI based PK parameters: A feasibility study. Cancer Informatics , 14(S4), 7-18.
8. **Kontopodis**, E., Kanli, G., Manikis, G., Van Cauter, S., & Marias, K. (2015). Assessing Treatment Response Through Generalized Pharmacokinetic Modeling of DCE-MRI Data. , 14(4), 41-51.

9. Kalaitzakis, G., Kavroulakis, L., Boursianis, T., Veneti, S., **Kontopodis**, E., Marias, K., Papadaki, E., Karantanas, A., & Maris, Th.G. (2014). Magnetic relaxation measurements on tissue mimicking phantoms: comparison between different fitting algorithms in MRI T2 calculations. Physica Medica, 30(1), 118-119.

Conferences (7)

10. Venianaki, M., Karantanas, A., de Bree, E., Maris, T, **Kontopodis**, E., Nikiforaki, K., Salvetti, O., & Marias, K. (2018). Assessment of soft-tissue sarcomas perfusion using data-driven techniques. 2018 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI), 4-7 March 2018. (978-1-5386-2405-0 978-1-5386-2406-7), doi: 10.1109/BHI.2018.8333441 .
11. **Kontopodis**, E., Manikis, G., Skepasianos, I., Tsagkarakis, K., Nikiforaki, K., Papadakis Z., G., Maris, Th.G., Papadaki, E., Karantanas, A., & Marias, K. (2018). DCE-MRI radiomics features for predicting breast cancer neoadjuvant therapy response. 2018 IEEE International Conference on Imaging Systems and Techniques (IST), October 2018. doi: 10.1109/IST.2018.8577128 .
12. **Kontopodis**, E., Manikis, G., Nikiforaki, K., Venianaki, M., Marias, K., Maris, Th.G., Karantanas, A., & Papadaki, E. (2018). Incremental diagnostic information obtained via novel Dynamic Contrast Enhanced MRI framework applied on Multiple Sclerosis patients: a preliminary study. 2018 IEEE EMBS International Conference on Biomedical & Health Informatics (BHI), 4-7 March 2018. (978-1-5386-2405-0 978-1-5386-2406-7), doi: 10.1109/BHI.2018.8333366 .
13. **Kontopodis**, E., Karatzanis, I., Sakkalis, V., Buffa, F., & Marias, K. (2016). A DCE-MRI analysis workflow. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.
14. Venianaki, M., **Kontopodis**, E., Nikiforaki, K., de Bree, E., Salvetti, O., & Marias, K. (2016). A model-free approach for imaging tumor hypoxia from DCE-MRI data. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.
15. Venianaki, M., **Kontopodis**, E., Nikiforaki, K., de Bree, E., Maris, T, Karantanas, A., Salvetti, O., & Marias, K. (2016). Improving hypoxia map estimation by using model-free classification techniques in DCE-MRI images. 2016 IEEE International Conference on Imaging Systems and Techniques (IST), 4-6 Oct. (pp. 183-188). IEEE Xplore: IEEE doi: http://dx.doi.org/10.1109/IST.2016.7738220 Date of publication: 10 Nov. 2016.
16. Marias, K., Nikiforaki, K., Manikis, G., **Kontopodis**, E., & Papanikolaou, N. (2016). Visualizing tumor environment with perfusion and diffusion MRI: Computational challenges. Computer Graphics International (CGI), the 33rd Annual Conference, June 28-July 01, 2016.

Books Chapter

17. Manikis, G., **Kontopodis**, E., Nikiforaki, K., Marias, K., & Papanikolaou, N. (2016). Imaging biomarkers model-based analysis. Imaging Biomarkers: Development and Clinical Integration. Springer.

Patents

18. Manikis, G., **Kontopodis, E.**, & Marias, K. (2016). Apparatuses, methods and systems for estimating water diffusivity and microcirculation of blood using dw-mri data. May 19, 2016, Publication number: 20160139226 Filed: November 13, 2015.