

Ιωάννης Κάκκος
Τηλ: +302107722270
E-mail: ikakkos@uniwa.gr

ΣΠΟΥΔΕΣ
Διδακτορική διατριβή:
2021

Μεταπτυχιακό δίπλωμα:
Βιοϊατρική Τεχνολογία, 2015

Πτυχίο:
Φυσικής, 2013

ΕΡΕΥΝΗΤΙΚΗ ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

Ιαν. 2021 – τώρα

Εθνικό Μετσόβιο Πολυτεχνείο, Αθήνα
[Μεταδιδακτορική Έρευνα - Επιστημονικός Συνεργάτης]

Μαρ 2016 – Δεκ 2016

National University of Singapore, Singapore
[Επιστημονικός συνεργάτης στο ερευνητικό ινστιτούτο “Singapore Institute for Neurotechnology (SINAPSE)’’]

ΔΙΑΔΙΚΤΙΚΗ ΔΡΑΣΤΗΡΙΟΤΗΤΑ

Ακαδ. Έτος: 2021-2022

Πανεπιστήμιο Δυτικής Αττικής, Τμήμα Ηλεκτρολόγων και Ηλεκτρονικών Μηχανικών, Τμήμα Μηχανικών Βιομηχανικής Σχεδίασης και Παραγωγής, Σχολή Μηχανικών.

ΠΜΣ: Τεχνητή Νοημοσύνη και Βαθιά Μάθηση
Τεχνητή Ενφυΐα στην Υγεία και στα Βιομετρικά Δεδομένα (*Artificial Intelligence in Healthcare and Biometrics*), Εξάμηνο 2^ο

Ακαδ. Έτος: 2021-2022

Πανεπιστήμιο Δυτικής Αττικής, Τμήμα Μηχανικών Βιοϊατρικής, Σχολή Μηχανικών

ΠΜΣ: Προηγμένα Συστήματα και Μέθοδοι στη Βιοϊατρική Τεχνολογία Τεχνολογίες Πληροφορικής στην Ιατρική & τις άλλες Βιοεπιστήμες, Εξάμηνο 1^ο

Ακαδ. Έτη: 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022

Εθνικό Μετσόβιο Πολυτεχνείο Αθήνας, Σχολή Ηλεκτρολόγων Μηχανικών & Μηχανικών Υπολογιστών
Επεξεργασία και Ανάλυση Ιατρικών Σημάτων, Εξάμηνο 7^ο

ΕΠΙΣΤΗΜΟΝΙΚΑ ΕΠΙΤΕΥΓΜΑΤΑ

Συγγραφή:

24 δημοσιεύσεις σε διεθνή περιοδικά με κριτές (11), διεθνή συνέδρια (9), ανάρτηση (1) και κεφάλαια σε βιβλία (3). Ετεροαναφορές: 265, h-index:7 (<https://scholar.google.gr/citations?user=9Z7tMNYAAAAJ&hl=en>)

Ερευνητικές Επιχορηγήσεις:

BIOBON3D (πρόγραμμα ΕΣΠΑ) MIS-5129423

DESTINY (πρόγραμμα ΕΣΠΑ) MIS-5031684

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ΔΗΜΟΣΙΕΥΣΕΙΣ

Δημοσιεύσεις σε διεθνή περιοδικά με κριτές

1. V. Iliadou, I. Kakkos, P. Karaikos, V. Kouloulias, K. Platonis, A. Zygogianni, G.K. Matsopoulos. Early Prediction of Planning Adaptation Requirement Indication Due to Volumetric Alterations in Head and Neck Cancer Radiotherapy: A Machine Learning Approach. *Cancers* 2022, 14, 3573. <https://doi.org/10.3390/cancers14153573>
2. Y. Sun, Z. Zhang, I. Kakkos, G.K. Matsopoulos, J. Yuan, J. Suckling, L. Xu, S. Cao, W. Chen, X. Hu, T. Li, K. Sim, P. Qi, Y. Sun, Inferring the Individual Psychopathologic Deficits with Structural Connectivity in a Longitudinal Cohort of Schizophrenia. *IEEE J Biomed Health Inform.* PP (2022). <https://doi.org/10.1109/JBHI.2021.3139701>.
3. J. Liu, K. Dong, Y. Sun, I. Kakkos, F. Huang, G. Wang, P. Qi, X. Chen, D. Zhang, A. Bezerianos, Y. Sun, Progress of Brain Network Studies on Anesthesia and Consciousness: Framework and Clinical Applications, *Engineering*. (2021). <https://doi.org/10.1016/j.eng.2021.11.013>.
4. I. Kakkos, G.N. Dimitrakopoulos, Y. Sun, J. Yuan, G.K. Matsopoulos, A. Bezerianos, Y. Sun, EEG fingerprints of task-independent mental workload discrimination, *IEEE Journal of Biomedical and Health Informatics*. (2021) 1–1. <https://doi.org/10.1109/JBHI.2021.3085131>.
5. I. Zorzos, I. Kakkos, E.M. Ventouras, G.K. Matsopoulos, Advances in Electrical Source Imaging: A Review of the Current Approaches, Applications and Challenges, *Signals*. 2 (2021) 378–391. <https://doi.org/10.3390/signals2030024>.
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8. I. Kakkos, G.N. Dimitrakopoulos, L. Gao, Y. Zhang, P. Qi, G.K. Matsopoulos, N. Thakor, A. Bezerianos, Y. Sun, Mental Workload Drives Different Reorganizations of Functional Cortical Connectivity Between 2D and 3D Simulated Flight Experiments, *IEEE Trans Neural Syst Rehabil Eng.* 27 (2019) 1704–1713. <https://doi.org/10.1109/TNSRE.2019.2930082>.
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10. D.B.L. Teh, S.M. Chua, A. Prasad, I. Kakkos, W. Jiang, M. Yue, X. Liu, A.H. All, Neuroprotective assessment of prolonged local hypothermia post contusive spinal cord injury in rodent model, *Spine J.* 18 (2018) 507–514. <https://doi.org/10.1016/j.spinee.2017.10.066>.
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Παρουσιάσεις και αναρτήσεις σε συνέδρια

1. S.T. Miloulis, I. Kakkos, A. Karampasi, I. Zorzos, E.-C. Ventouras, G.K. Matsopoulos, P. Asvestas, I. Kalatzis, Stimulus Effects on Subject-Specific BCI Classification Training using Motor Imagery, in: 2021 International Conference on E-Health and Bioengineering (EHB), 2021: pp. 1–4. <https://doi.org/10.1109/EHB52898.2021.9657538>.
2. S.T. Miloulis, I. Kakkos, G.N. Dimitrakopoulos, Y. Sun, I. Karanasiou, P. Asvestas, E.-C. Ventouras, G. Matsopoulos, Evaluating Memory and Cognition via a Wearable EEG System: A Preliminary Study, in: J. Ye, M.J. O'Grady, G. Civitarese, K. Yordanova (Eds.), Wireless Mobile Communication and Healthcare, Springer International Publishing, Cham, 2021: pp. 52–66. https://doi.org/10.1007/978-3-030-70569-5_4.
3. A. Karampasi, I. Kakkos, S.-T. Miloulis, I. Zorzos, G.N. Dimitrakopoulos, K. Gkiatis, P. Asvestas, G. Matsopoulos, A Machine Learning fMRI Approach in the Diagnosis of Autism, in: 2020 IEEE International Conference on Big Data (Big Data), 2020: pp. 3628–3631. <https://doi.org/10.1109/BigData50022.2020.9378453>.
4. I. Kakkos, K. Gkiatis, K. Bromis, P.A. Asvestas, I.S. Karanasiou, E.M. Ventouras, G.K. Matsopoulos, Classification of Error Related Brain Activity in an Auditory Identification Task with Conditions of Varying Complexity, *J. Phys.: Conf. Ser.* 931 (2017) 012017. <https://doi.org/10.1088/1742-6596/931/1/012017>.
5. J. Chai, G. Chen, P. Thangavel, G.N. Dimitrakopoulos, I. Kakkos, Y. Sun, Z. Dai, H. Yu, N. Thakor, A. Bezerianos, J. Li, Identification of gait-related brain activity using electroencephalographic signals, in: 2017 8th International IEEE/EMBS Conference on Neural Engineering (NER), 2017: pp. 548–551. <https://doi.org/10.1109/NER.2017.8008410>.
6. G.N. Dimitrakopoulos, I. Kakkos, N.V. Thakor, A. Bezerianos, null Yu Sun, A mental fatigue index based on regression using multiband EEG features with application in simulated driving, *Conf Proc IEEE Eng Med Biol Soc.* 2017 (2017) 3220–3223. <https://doi.org/10.1109/EMBC.2017.8037542>.
7. K. Bromis, I. Kakkos, K. Gkiatis, I.S. Karanasiou, G.K. Matsopoulos, Brain Functional Connectivity in Small Cell Lung Cancer Population after Chemotherapy Treatment: an ICA fMRI Study, *J. Phys.: Conf. Ser.* 931 (2017) 012041. <https://doi.org/10.1088/1742-6596/931/1/012041>.
8. G.N. Dimitrakopoulos, I. Kakkos, A.G. Vrahatis, K. Sgarbas, J. Li, Y. Sun, A. Bezerianos, Driving Mental Fatigue Classification Based on Brain Functional Connectivity, in: G. Boracchi, L. Iliadis, C. Jayne, A. Likas (Eds.), Engineering Applications of Neural Networks, Springer International Publishing, Cham, 2017: pp. 465–474. https://doi.org/10.1007/978-3-319-65172-9_39.
9. K. Gkiatis, K. Bromis, I. Kakkos, I.S. Karanasiou, G.K. Matsopoulos, K. Gorganis, Effects of Inaccurate Identification of Interictal Epileptiform Discharges in Concurrent EEG-fMRI, *J. Phys.: Conf. Ser.* 931 (2017) 012042. <https://doi.org/10.1088/1742-6596/931/1/012042>.
10. K. Gkiatis, A. Karampasi, I. Kakkos, S.T. Miloulis, G.K. Matsopoulos, Ch. Benjamin, and K. Gorganis, “Presurgical mapping of language network with fMRI: Greek evaluation”, Poster in 13th Panhellenic Epilepsy Conference, 7-9 June 2019, Athens, 2nd Prize Award for best poster presented.

Κεφάλαια σε βιβλία

1. Miloulis S.T., Kakkos I., Anastasiou A., Matsopoulos G.K., Koutsouris D. (2022) Application of Artificial Intelligence towards Successful Ageing - A Holistic Approach. In: Koumpouros I., Georgoulas A., Kremmyda G. (eds) Modern Challenges and Approaches to Humanitarian Engineering, ISBN13: 9781799891901, [doi:10.4018/978-1-7998-9190-1](https://doi.org/10.4018/978-1-7998-9190-1)
2. A. Karampasi, K. Gkiatis, I. Kakkos, K. Gorganis, G.K. Matsopoulos, Advances in Artificial Intelligence for the Identification of Epileptiform Discharges, in: C.-P. Lim, A. Vaidya, K. Jain, V.U. Mahorkar, L.C. Jain (Eds.), Handbook of Artificial Intelligence in Healthcare: Vol. 1 - Advances and Applications, Springer International Publishing, Cham, 2022: pp. 3–25. https://doi.org/10.1007/978-3-030-79161-2_1.
3. I. Kakkos, S.-T. Miloulis, K. Gkiatis, G.N. Dimitrakopoulos, G.K. Matsopoulos, Human-Machine Interfaces for Motor Rehabilitation, in: I. Maglogiannis, S. Brahma, L.C. Jain (Eds.), Advanced Computational Intelligence in Healthcare-7: Biomedical Informatics, Springer, Berlin, Heidelberg, 2020: pp. 1–16. https://doi.org/10.1007/978-3-662-61114-2_1.