

ΠΑΡΑΣΚΕΥΗ ΘΕΟΔΩΡΟΥ



Σύντομο Βιογραφικό

Η Παρασκευή Θεοδώρου είναι μεταδιδασκτορική ερευνήτρια στο Τμήμα Ψηφιακών Συστημάτων του Πανεπιστημίου Πειραιώς από το 2023 στο πεδίο των έξυπνων πόλεων και του έξυπνου τουρισμού. Έλαβε την Διδακτορική της Διατριβή το 2022 στο πεδίο της Προσβασιμότητας και των Υποβοηθητικών Τεχνολογιών από το Τμήμα Ψηφιακών Συστημάτων του Πανεπιστημίου Πειραιώς. Κατέχει δύο μεταπτυχιακά διπλώματα στις Ψηφιακές Επικοινωνίες και τα Δίκτυα από το ίδιο Πανεπιστήμιο (2009), και στις Επιστήμες της Αγωγής - Ειδική Εκπαίδευση από το Πανεπιστήμιο Λευκωσίας στην Κύπρο (2015). Έλαβε το πτυχίο της από το Τμήμα Ψηφιακών Συστημάτων του Πανεπιστημίου Πειραιώς το 2006.

Τα ερευνητικά της ενδιαφέροντα εστιάζουν στον τομέα της ανάπτυξης υποβοηθητικών εφαρμογών με βάση τα κινητά τηλέφωνα για άτομα με ειδικές ανάγκες, με ιδιαίτερη έμφαση στα άτομα με οπτικές ή/και ακουστικές αναπηρίες, στον εντοπισμό βέλτιστων πρακτικών στην εκπαίδευση που διευκολύνουν την υιοθέτηση της τεχνολογίας από αυτές τις ομάδες ατόμων, τη χρήση μεθόδων και τεχνολογιών που βελτιώνουν τη διαδικασία εκπαίδευσης και κατάρτισης ατόμων με μαθησιακές δυσκολίες με τη βοήθεια εργαλείων επαυξημένης πραγματικότητας, την περιβαλλοντική εκπαίδευση και την αλληλεπίδραση ανθρώπου-μηχανής.

Η έρευνά της περιλαμβάνει δεκαπέντε δημοσιεύσεις σε έγκριτα διεθνή επιστημονικά περιοδικά με κριτές, όπως το Journal of Universal Access Information Society (Springer Editions, Impact Factor: 2.4), δύο δημοσιεύσεις σε διεθνή τόμο με κριτές, είκοσι πέντε συμμετοχές σε συνέδρια με κριτές, ενώ έχει διατελέσει κριτής σε διεθνή συνέδρια και περιοδικά.

Επίσης έχει συμμετάσχει σε εθνικά (MANTO) και ευρωπαϊκά ερευνητικά έργα (Interactive Digital Content Platform for All – Indie4all, CLIMAt coalition eXchange of best practices – Climax, STEam methodology for heALTHhy nutrition awareness - Food as cultural Heritage – STEALTH, Training new generations on geomorphology, geohazards and geoheritage through Virtual Reality Technologies – GeoVT, Innovative Education for the Bioeconomy – Biobeo, «Διασυννοριακό δίκτυο προώθησης της επιχειρηματικότητας σε εντυπο-ανάπηρα άτομα με χρήση έξυπνων εργαλείων πρόσβασης στις βιβλιοθήκες – ΟΜΗΡΟΣ»). Έχει γνώσεις προγραμματισμού ηλεκτρονικών υπολογιστών, λειτουργικών συστημάτων και λογισμικού υπολογιστών.

Τέλος, γνωρίζει το σύστημα γραφής Braille (Πιστοποίηση KEAT για ανάγνωση και γραφή), καθώς και την ελληνική νοηματική γλώσσα (Εθνικό Ίδρυμα Κωφών).

ΑΗΜΟΣΙΕΥΣΕΙΣ

1. Theodorou, P.; Tsiligkos, K.; Meliones, A. Multi-Sensor Data Fusion Solutions for Blind and Visually Impaired: Research and Commercial Navigation Applications for Indoor and Outdoor Spaces. *Sensors* 2023, 23, 5411 (Scopus, Web of Science, Impact Factor 3.9.)
2. Theodorou P., Tsiligkos K., Meliones, A. (2023). Challenges in Acceptance of Smartphone-based Assistive Technologies - Extending the UTAUT Model for People with Blindness and Visual Impairments, *Journal of Visual Impairment & Blindness* (Scopus, Web of Science, Impact Factor 1.1)
3. Theodorou, P.; Tsiligkos, K.; Meliones, A.; Filios, C. A Training Smartphone Application for the Simulation of Outdoor Blind Pedestrian Navigation: Usability, UX Evaluation, Sentiment Analysis. *Sensors* 2023, 23, 367 (Scopus, Web of Science, PubMed, Impact Factor 3.9)
4. Theodorou, P.; Meliones, A. Gaining Insight for the Design, Development, Deployment and Distribution of Assistive Navigation Systems for Blind and Visually Impaired People through a Detailed User Requirements Elicitation. *Univ Access Inf Soc* 2023, 22, 841–867 (Scopus, Web of Science, Impact Factor 2.6, Springer Editions)
5. Gaftandzhieva, S.; Talukder, A.; Gohain, N.; Hussain, S.; Theodorou, P.; Salal, Y.K.; Doneva, R. Exploring Online Activities to Predict the Final Grade of Student. *Mathematics* 2022, 10, 3758 (Scopus, Web of Science, Impact Factor 2.6)
6. Theodorou, P.; Tsiligkos, K.; Meliones, A.; Tsigris, A. An Extended Usability and UX Evaluation of a Mobile Application for the Navigation of Individuals with Blindness and Visual Impairments Indoors: An Evaluation Approach Combined with Training Sessions. *British Journal of Visual Impairment* 2022 (Scopus, Web of Science, Impact Factor 0.8)
7. Theodorou, P.; Tsiligkos, K.; Meliones, A.; Filios, C. An Extended Usability and UX Evaluation of a Mobile Application for the Navigation of Individuals with Blindness and Visual Impairments Outdoors—An Evaluation Framework Based on Training. *Sensors* 2022, 22, 4538 (Scopus, Web of Science 3, Impact Factor 3.9)
8. Theodorou, P.; Meliones, A.; Filios, C. Smart Traffic Lights for People with Visual Impairments: A Literature Overview and a Proposed Implementation. *British Journal of Visual Impairment* 2022 (Scopus, Web of Science, Impact Factor 0.8)
9. Theodorou, P., Pappa. E. E., Gkaidatzoglou, A., Liapi, M. G., (2021). “Non-uniform effects of equineassisted therapy in motor, adaptive and social skills of children with autistic spectrum disorder: A qualitative approach in special needs education”. *Academic Journal of International Education Research*, Q1/2021, ISSN 2694-7803
10. Theodorou, P.; Meliones, A. Towards a Training Framework for Improved Assistive Mobile App Acceptance and Use Rates by Blind and Visually Impaired People. *Education Sciences* 2020, 10, 58, (Scopus, Web of Science, Impact Factor 3)
11. Theodorou, P.; Meliones, A. User Requirements Analysis for the Development of Assistive Navigation Mobile Apps for Blind and Visually Impaired People. *International Journal of Information, Control and Computer Sciences* 2020, 13.0,
12. Theodorou, P.; Meliones, A. Developing Apps for People with Sensory Disabilities, and Implications for Technology Acceptance Models. *Global Journal of Information Technology: Emerging Technologies* 2019, 9, 33–40,

13. Hussain, S.; Muhsion, Z.F.; Salal, Y.K.; Theodorou, P.; Kurtoglu, F.; Hazarika, G.C. Prediction Model on Student Performance Based on Internal Assessment Using Deep Learning. *International Journal of Emerging Technologies in Learning (iJET)* 2019, 14, 4–22, (Scopus)
14. Theodorou, P.; Drigas, A. ICTs and Music in Generic Learning Disabilities. *International Journal of Emerging Technologies in Learning (iJET)* 2017, 12, 101–110,
15. Theodorou, P.; Drigas, A. ICTs and Music in Sensory and Motor Disabilities. *International Journal of Recent Contributions from Engineering, Science & IT (iJES)* 2017, 5, 4–13,
16. Drigas, A.; Theodorou, P. ICTs and Music in Special Learning Disabilities. *International Journal of Recent Contributions from Engineering, Science & IT (iJES)* 2016, 4, 12–16,

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΤΟΜΟΥΣ ΜΕ ΚΡΙΤΕΣ

1. Theodorou P., Meliones A. (2021) Human-Machine Requirements' Convergence for the Design of Assistive Navigation Software: The case of Blind or Visually Impaired People", *Advances in assistive technologies Vol.3*
2. Theodorou P et al. (2019) Climate Change Education Through DST in the Age Group "10–13" in Greece. Addressing the Challenges in Communicating Climate Change Across Various Audiences, pp. 317-337. *Climate Change Management*. Springer, Cham

ΣΥΝΕΛΠΙΑ

1. Theodorou P., Tsiligkos K., Meliones A., Tsigris A., "Usability and UX evaluation of an Android Application for Indoor Blind Navigation", 2023 18th edition of the International Mobility Conference (IMC18), Warsaw, Copernicus Science Centre, Poland
2. Psycharis, S., Theodorou, P., Kydonakis, P. (2023). The Use of Indie4All Platform for Visually Impaired Students on the Acquisition of Learning Objects with Computational Thinking Practices in Music, Math and Physics. In: Guralnick, D., Auer, M.E., Poce, A. (eds) *Innovative Approaches to Technology-Enhanced Learning for the Workplace and Higher Education*. TLIC 2022. Lecture Notes in Networks and Systems, vol 581. Springer, Cham. https://doi.org/10.1007/978-3-031-21569-8_56 (Springer)
3. Psycharis, S., Theodorou, P., Spanidis, Y., Kydonakis, P. (2022). Teaching Programming Skills to Blind and Visually Impaired Learners. In: Guralnick, D., Auer, M.E., Poce, A. (eds) *Innovations in Learning and Technology for the Workplace and Higher Education*. TLIC 2021. Lecture Notes in Networks and Systems, vol 349. Springer, Cham. https://doi.org/10.1007/978-3-030-90677-1_26
4. Kydonakis P., Psycharis S., Theodorou V., Williams P. (2021) Computational Thinking with Mobile Learning for Visually Impaired. Στο Α. Καμέας, Σ. Παπαδάκης, (Επιμ.), *Πρακτικά Πανελλήνιου και Διεθνούς Συνεδρίου «Εκπαιδευτικοί & Εκπαίδευση STE(A)M» & Πάτρα & On-llne*, 7-8/05/2021. Πάτρα, Ελλάδα: ΕΑΠ: ISBN: 978-618-5497-24-8

5. S. Psycharis et al., "The Impact of Physical Computing and Computational Pedagogy on Girl's Self – Efficacy and Computational Thinking Practice," 2021 IEEE Global Engineering Education Conference (EDUCON), Vienna, Austria, 2021, pp. 308-315, doi: 10.1109/EDUCON46332.2021.9454003
6. Salal, Y. K., Hussain, M., & Theodorou, P. (2021). Student next assignment submission prediction using a machine learning approach. *Lecture Notes in Electrical Engineering*, 383-393. https://doi.org/10.1007/978-3-030-71119-1_38
7. Theodorou, P., Meliones, A., (2019). 'User Requirements Analysis for the Development of Assistive Navigation Mobile Apps for Blind and Visually Impaired People', International Conference on Computers and Accessibility (ICCA 2019), Austria, December 26-27 (Best Presentation Award), <https://doi.org/10.5281/zenodo.3607890>
8. Theodorou, P., Pappa, E., Gaidatzoglou, A., & Liapi, M. (2019). The effect of equine-assisted therapy in motor, adaptive and social skills of children with autism. Paper presented at Proceedings of IAC in Budapest 2019. Czech Institute of Academic Education., Budapest, Hungary, August 23-24. ISBN 978-80-88203-12-4.
9. Theodorou, P., Meliones, A., (2019). 'Developing Apps for People with Sensory Disabilities and the Implications for Technology Acceptance Models', 2019 Cyprus International Conference on Education Research, June 23-24
10. Vamvaka, E., Giannaras, K., Gaidatzoglou, A., Theodorou, P., & Papadopoulos, M. (2019). 'Αξιοποίηση Τεχνολογιών για Διαχείριση και Προστασία Θέσεων Στάθμευσης AMEA'. In CIE2019 - 11th Conference on Informatics in Education (pp. 172-186). Piraeus, Greece: GREEK COMPUTER SOCIETY (GCS). ISBN: 978-960-578-058-6.
11. Theodorou P., Liapi M.G., Pappa E.E., Han, G., Oursouzidou C., Kalogirou E.S., Skanavis C., (2018). "Relational tourism challenges and opportunities: Therapeutic and Equine Tourism", 10th International Conference on Islands Tourism, Palermo
12. Theodorou P., Kydonakis P., Han G.J., Tsagaki-Rekleitou K., Skanavis C., (2018). "Waste Management Education tailored to Tourists' Interests through Augmented Reality", 10th International Conference on Islands Tourism, Palermo
13. Theodorou P., Kefala, T., Han, G.J., Vourdougiannis, L., Kydonakis P., Skanavis C., (2018). "Environmental education empowers travellers: choosing bottled water", 10th International Conference on Islands Tourism, Palermo
14. Mushtaq Hussain, Sadiq Hussain, Wu Zhang, Wenhao Zhu, Paraskevi Theodorou, and Syed Muhammad Raza Abidi. 2018. Mining Moodle Data to Detect the Inactive and Low-performance Students during the Moodle Course. In Proceedings of the 2nd International Conference on Big Data Research (ICBDR '18). Association for Computing Machinery, New York, NY, USA, 133–140. <https://doi.org/10.1145/3291801.3291828>
15. Theodorou P., Kydonakis P., Botzori M., Skanavis C., (2018). "Augmented reality proves to be a breakthrough in Environmental Education", Protection and restoration of the environment XIV, Thessaloniki DOI: 10.13140/RG.2.2.24330.98241
16. Theodorou P., Vratsanou K. C., Moriki E., Botzori M., Skanavis C., (2018). "Recycling and education through Digital Storytelling in the age group "8-12" in Greece" Protection and restoration of the environment XIV, Thessaloniki
17. Theodorou P., Vratsanou K. C., Moriki E., Bertoli C., Karaberis M., Skanavis C., (2018). "Renewable Energy Sources Education Through DST in the Age Group "8-12" in Greece", Dubai International Convention & Exhibition Centre

18. Theodorou, P., Pappa E. E., Genitsaridi A., Skanavis C., (2018). "“Smart” Environmental Education for Special Needs Learners", Dubai International Convention & Exhibition Centre
19. Theodorou, P., Vratsanou, K.C., Nastoulas, I., Kalogirou, E.S., Skanavis, C. (2019). Climate Change Education Through DST in the Age Group “10–13” in Greece. In: Leal Filho, W., Lackner, B., McGhie, H. (eds) Addressing the Challenges in Communicating Climate Change Across Various Audiences. Climate Change Management. Springer, Cham. https://doi.org/10.1007/978-3-319-98294-6_20
20. Skanavis, C., Antonopoulos, K., Theodorou, P. & Vratsanou, K. (2017). “New Applied Green Technologies use the potential of the coastal zone. The case of the Port of Linaria Skyros” (in Greek), 7th Panhellenic Conference Management and Improvement of Coastal Zones
21. Zacharias A., Theodorou P. (2016) Creating a Presentation with Configuration-Timing of Various Motion and Transition Elements (in Greek), 10th Pan-Hellenic Computer Science Teachers Conference, Nafplion, April 2016
22. Theodorou P., Ntaoulas N., (2015) Teaching modeling of concepts with cross-thematic approach and use of KIDSPIRATION (in Greek), 9th Pan-Hellenic Conference of Computer Science Teachers Kastoria, April 2015
23. Ntaoulas N., Theodorou P., (2015) Teaching Scenario in Object Oriented Programming with ALICE (in Greek), 9th Pan-Hellenic Conference of Computer Science Teachers Kastoria, April 2015
24. Theodorou P., Skikos N., Papanastasatou S., (2015) Novel IT Applications in Special Education (in Greek), 9th Pan-Hellenic Conference of Computer Science Teachers Kastoria, April 2015
25. Βραδιά του Ερευνητή 2022 – Presentation of the applications Blind RouteVision and (Outdoor application) and Blind MuseumTourer (Indoor application)
26. "Augmented reality in the field of circular economy" Theodorou, P & Kydonakis, P & Skanavis, C. (2018). Poster presented at Ecocity Forum 2018.