CURRICULUM VITAE

Maria Moundridou

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EDUCATION

1997 - 2002	PhD in Informatics, Dept. of Informatics, University of Piraeus, GR
1992 - 1996	B.Sc. in Informatics, Dept. of Informatics, Athens University of Economics and Business, GR

RESEARCH INTERESTS

Intelligent Tutoring Systems (ITS), Adaptive Hypermedia Systems (AHS), ITS and AHS Authoring Tools; User Modelling; Virtual Learning Environments; Artificial Intelligence in Education.

PUBLICATIONS

PhD thesis: "Web-based Authoring Tools for Intelligent Tutoring Systems, with an emphasis on modelling the user-instructor" - Dept. of Informatics, Univ. of Piraeus, 2002.

(A) INTERNATIONAL JOURNALS

1. Matzakos, N., Doukakis, S., & Moundridou, M. (2023). Learning Mathematics with Large Language Models: A Comparative Study with Computer Algebra Systems and Other Tools. *International Journal of Emerging Technologies in Learning (iJET)*. 18(20). 51–71. https://doi.org/10.3991/ijet.v18i20.42979

2. Moundridou, M., Zalavra, E., Papanikolaou, K., & Tripiniotis, A. (2019). Collaboratively Developing Open Educational Resources for Engineering Educators in SlideWiki. *iJEP – International Journal of Engineering Pedagogy*. 9(2). 95-112.

3. Moundridou, M. & Virvou, M. (2003). Analysis and design of a Web-based authoring tool generating Intelligent Tutoring Systems. *Computers & Education*. 40(2). 157-181. Elsevier Science.

4. Moundridou, M. & Virvou, M. (2002). Evaluating the persona effect of an interface agent in a tutoring system. *Journal of Computer Assisted Learning*. 18(3). 253-261. Blackwell Publishing.

5. Virvou, M. & Moundridou, M. (2001). Adding an instructor modelling component to the architecture of ITS authoring tools. *International Journal of Artificial Intelligence in Education*. 12. 185-211. International AIED Society.

6. Virvou, M. & Moundridou, M. (2000). A Web-based authoring tool for Algebra-related Intelligent Tutoring Systems. *Educational Technology & Society*. 3(2). 61-70. Journal of International Forum of Educational Technology & Society and IEEE Learning Technology Task Force.

(B) BOOK CHAPTERS

1. Papanikolaou K., Tzelepi M., Moundridou M. & Petroulis I. (2020). Employing Social Network Analysis to Enhance Community Learning. In: Kumar V., Troussas C. (eds) *Intelligent Tutoring Systems. ITS 2020.* Lecture Notes in Computer Science, vol 12149. Springer, Cham, pp 342-352.

2. Moundridou, M., Zalavra, E., Papanikolaou, K. & Tripiniotis, A. (2020). Collaborative Content Authoring: Developing WebQuests Using SlideWiki. In: Auer, M., Tsiatsos, T. (eds): *The Challenges of the Digital Transformation in Education (Proceedings of the 21st International Conference on Interactive Collaborative Learning (ICL2018) - Volume 1).* Advances in Intelligent Systems and Computing, Vol. 916, Springer, Cham, 202-214.

3. Moundridou, M. & Kalinoglou, A. (2008). Using LEGO Mindstorms as an Instructional Aid in Technical and Vocational Secondary Education: Experiences from an Empirical Case Study. In: Dillenbourg, P. & Specht, M. (Eds.): *Times of Convergence: Technologies across learning contexts* (*Proceedings of the 3rd European Conference on Technology Enhanced Learning – EC-TEL 08)*, Lecture Notes in Computer Science, Vol. 5192, Springer-Verlag, Berlin Heidelberg, 312–321.

4. Virvou, M. & Moundridou, M. (2001). Student and Instructor Models: Two Kinds of User Model and their Interaction in an ITS Authoring Tool. In: Bauer, M., Gmytrasiewicz, P. & Vassileva, J. (eds.): *User Modeling 2001: Proceedings of the 8th International Conference UM2001*, Lecture Notes in Artificial Intelligence (Subseries of Lecture Notes in Computer Science), Vol. 2109, Springer, Berlin, 158-167.

5. Virvou, M. & Moundridou, M. (2000). Modelling the instructor in a Web-based authoring tool for Algebra-related ITSs. In: Gauthier, G., Frasson, C. & VanLehn, K. (eds.): *Intelligent Tutoring Systems: Proceedings of the 5th International Conference on Intelligent Tutoring Systems - ITS 2000*, Lecture Notes in Computer Science, Vol. 1839, Springer, Berlin, 635-644.

(C) INTERNATIONAL CONFERENCES

1. Tzelepi, M., Makri, K., Petroulis, I., Moundridou, M. & Papanikolaou, K. (2020). Gamification in online discussions: How do game elements affect critical thinking? In: *Proceedings of the IEEE 20th International Conference on Advanced Learning Technologies (ICALT)*, Tartu, Estonia, 92-94.

2. Moundridou, M., Virvou, M. & Tigas, O. (2018). Providing Individualized Support to Course Authors in LMSs through Instructor Modelling. In: *Proceedings of IISA 2018 - The 8th International Conference on Information, Intelligence, Systems and Applications*. 23-25 July 2018, Zakynthos, Greece.

3. Moundridou, M., & Papanikolaou, K. (2017). Educating engineer educators on Technology Enhanced Learning based on TPACK. In: *Proceedings of 2017 IEEE Global Engineering Education Conference (EDUCON)*, IEEE, 1247-1254.

4. Moundridou, M. & Goulioti, E. (2010). Exploring Students' and Teachers' Attitudes Towards Using Blogs in Secondary Education. In: Baptista Nunes, M. & McPherson, M. (Eds.): *Proceedings of the IADIS International Conference e-Learning 2010*, Vol. I, IADIS Press, 113-120.

5. Chryssos, V., Latifis, K. & Moundridou, M. (2007). Free/Open Source Alternative to Proprietary Software in Education. In Fernstrom, K. (ed.): *Readings in Technology in Education: Proceedings of the International Conference on Information Communication Technologies in Education* – ICICTE-07, UCFV Press, Canada, 146-153.

6. Tsigonias, M. & Moundridou, M. (2007). Using Asynchronous E-Learning as a Supplement to Traditional Laboratory Courses in Graphic Arts. In Fernstrom, K. (ed.): *Readings in Technology in Education: Proceedings of the International Conference on Information Communication Technologies in Education* – ICICTE-07, UCFV Press, Canada, 242-249.

7. Moundridou, M. & Virvou, M. (2005). Evaluation studies concerning the authoring side of WEAR. In: Constantinou, C.P., Evagorou, A., Evagorou, M., Kofteros, A., Michael, M., Nikolaou, Chr.,

Papademetriou, D., Papadouris, N. & Demetriou, D. (eds.): Proceedings of the *11th Biennial Conference EARLI 2005: Integrating Multiple Perspectives on Effective Learning Environments*. 524-525.

8. Moundridou, M. & Virvou, M. (2003). Usability evaluation aof a Web-based authoring tool for building Intelligent Tutoring Systems. In: Jacko J. & Stephanidis, C. (eds.): *Human-Computer Interaction: Theory and Practice (Part I), Proceedings of the 10th International Conference on Human-Computer Interaction - HCI International 2003*, Vol. 1. Lawrence Erlbaum Associates, Mahwah NJ, 808-812.

9. Moundridou, M. & Virvou, M. (2002). Empirical Analysis for the Design of a WWW Knowledge-based Authoring Tool. In: El Kamel, A., Mellouli, K. & Borne, P. (eds.): Proceedings of the *2002 IEEE International Conference on Systems, Man and Cybernetics*.

10. Moundridou, M. & Virvou, M. (2002). Evaluating the instructor support provided by a Web-based authoring tool for building adaptive courses. In: Petrushin, V., Kommers, P., Kinshuk & Galeev, I. (eds.): *IEEE International Conference on Advanced Learning Technologies; Media and the Culture of Learning - ICALT 2002*, IEEE Computer Society, Palmerston North, New Zealand, 408-413.

11. Moundridou, M. & Virvou, M. (2002). Authoring Intelligent Tutoring Systems over the World Wide Web. In: *Proceedings of the 2002 First International IEEE Symposium 'Intelligent Systems' - IS'2002*, Vol. I, IEEE, 160-165.

12. Moundridou, M. & Virvou, M. (2002). An empirical study for the development of a Web-based authoring tool for Intelligent Tutoring Systems. In: *Proceedings of 4th International Workshop on Computer Science and Information Technologies - CSIT 2002*.

13. Moundridou, M. & Virvou, M. (2002). An authoring tool supporting instructors in the development of adaptive educational applications over the Web. In Fernstrom, K. (ed.): *Proceedings of the 3rd International Conference on Information Communication Technologies in Education*, National and Kapodistrian University of Athens, Athens, 459-465.

14. Moundridou, M. & Virvou, M. (2001). Authoring and Delivering Adaptive Web-Based Textbooks using WEAR. In: Okamoto, T., Hartley, R., Kinshuk & Klus, J.P. (eds.): *IEEE International Conference on Advanced Learning Technologies; Issues, Achievements, and Challenges - ICALT 2001*, IEEE Computer Society, Los Alamitos, California, 185-188.

15. Moundridou, M. & Virvou, M. (2001). Evaluation of a Speech-Driven, Anthropomorphic Agent in the Interface of a Web-Based Intelligent Tutoring System. In: *Proceedings of TELEMATICA-2001, International Conference on Telematics and Web-Based Education*, Saint-Petersburg State Institute of Fine Mechanics and Optics, Saint-Petersburg, 51-52.

16. Virvou, M., Tsiriga, V. & Moundridou, M. (2001). Adaptive Navigation Support in a Web-Based Software Engineering Course. In: Spyrou, C. (ed.): *Proceedings of the 2nd International Conference on Technology in Teaching and Learning in Higher Education*, National and Kapodistrian University of Athens, Athens, 333-338.

17. Virvou, M., Moundridou, M., Loizos, M., Papachristou, A. & Polyzotis, N. (2000). A Web-based educational tool for solving equations. In: Bourdeau J. & Heller R. (eds.): *Proceedings of ED-MEDIA 2000, World Conference on Educational Multimedia, Hypermedia & Telecommunications*, AACE, Charlottesville VA, 1799.

18. Virvou, M., Sgouros, N., Moundridou, M. & Manargias, D. (2000). Using a speech-driven, anthropomorphic agent in the interface of a WWW educational application. In: Bourdeau J. & Heller R. (eds.): *Proceedings of ED-MEDIA 2000, World Conference on Educational Multimedia, Hypermedia & Telecommunications*, AACE, Charlottesville VA, 1724-1726.

19. Virvou, M. & Moundridou, M. (1999). An authoring tool for Algebra-related domains. In: Bullinger, H.-J., Ziegler, J. (eds.): *Human-Computer Interaction: Communication, Cooperation, and Application Design, Proceedings of the 8th International Conference on Human-Computer Interaction - HCI International '99*, Vol. 2. Lawrence Erlbaum Associates, Mahwah NJ, 647-651.

20. Virvou, M. & Moundridou, M. (1999). Authoring tool for applied mathematics. In: Collis, B. & Oliver, R. (eds.): *Proceedings of ED-MEDIA 99, World Conference on Educational Multimedia, Hypermedia & Telecommunications*, Vol. 2. AACE, Charlottesville VA, 1691.

21. Alexandris, N., Virvou, M. & Moundridou, M. (1998). A Multimedia Tool for Teaching Geometry at Schools. In: Ottmann, T. & Tomek, I. (eds.): *Proceedings of ED-MEDIA 98, World Conference on Educational Multimedia, Hypermedia & Telecommunications*, Vol. 2. AACE, Charlottesville VA, 1546-1548.

(D) NATIONAL CONFERENCES

1. Τζελέπη, Μ., Παπανικολάου, Κ., Πετρούλης, Γ., Μακρή, Κ., Μουντρίδου, Μ. (2019). Σχεδιάζοντας για την ενίσχυση Κοινοτήτων Διερεύνησης σε συνθήκες Μικτής Μάθησης. Στο: *2ο Πανελλήνιο Συνέδριο "Ανοικτοί Εκπαιδευτικοί Πόροι και Ηλεκτρονική Μάθηση"*. Κόρινθος, 13-14 Δεκεμβρίου 2019.

2. Σαλούρου, Δ., Σπηλιωτοπούλου, Β. & Μουντρίδου, Μ. (2011). Οπτικές αναπαραστάσεις του βιβλίου λυκείου "Πολυμέσα" (Στρογγυλό Τραπέζι). Πρακτικά του *2ου Επιστημονικού Συνεδρίου του Σ.Ε.Π./ΑΣΠΑΙΤΕ: «Τεχνολογικές Εξελίξεις και Διδακτικές Εφαρμογές στην ΤΕΕ. Καινοτομικές δράσεις και προοπτικές ανάπτυξης»*. 16-17 Δεκεμβρίου 2011. (Διαθέσιμο στη διεύθυνση: http://www.aspete-sep.gr/praktika2synedriou/doc_download/35-roundtable03)

3. Μουντρίδου, Μ. & Σολδάτος, Ν. (2010). Διερεύνηση απόψεων και στάσεων των εκπαιδευτικών Πληροφορικής για το Ελεύθερο Λογισμικό/Λογισμικό Ανοιχτού Κώδικα (ΕΛ/ΛΑΚ) στην εκπαίδευση. Στο: Τζιμογιάννης, Α. (επιμ.): *Πρακτικά Εργασιών 7ου Πανελλήνιου Συνεδρίου με Διεθνή Συμμετοχή «Οι ΤΠΕ στην Εκπαίδευση»*, τόμος ΙΙ, 681-688.

4. Μαυρομματίδης, Η., Γεωργαντοπούλου, Χ. & Μουντρίδου, Μ. (2010). Ανάπτυξη Αριθμητικής Εφαρμογής για τη Διδασκαλία Ρευστοδυναμικών Φαινομένων. *7ο Πανελλήνιο Συνέδριο για τα Φαινόμενα Ροής Ρευστών – ΡΟΗ 10*. Θεσσαλονίκη, 12-13 Νοεμβρίου, 2010.

5. Βύνιας, Δ. & Μουντρίδου, Μ. (2009). Ενσωμάτωση των ΤΠΕ στη Διδασκαλία Μαθημάτων της Ειδικότητας Κλωστοϋφαντουργίας. Στο: Πολίτης, Π. (Ed.): *Πρακτικά του 1ου Εκπαιδευτικού Συνεδρίου «Ένταξη και χρήση των ΤΠΕ στην εκπαιδευτική διαδικασία»*. 706-712.

6. Virvou, M., Moundridou, M., Tsiriga, V., Kabassi, K., Katsionis, G., Manos, K., Tourtoglou, K. & Alepis, E. (2004). Adaptive Hypermedia Research at the Department of Informatics, University of Piraeus. In: Grigoriadou, M., Raptis, A., Vosniadou, S. & Kinigos, H. (eds.): *Proceedings of the 4th Hellenic Conference with International Participation in Information & Communication Technologies in Education*, New Technologies Publications, 495-497.

7. Moundridou, M. & Virvou, M. (2002). WEAR: A Web-Based Authoring Tool for Building Intelligent Tutoring Systems. In Vlahavas, I.P. & Spyropoulos, C.D. (eds.): *Proceedings (Companion Volume) of the 2nd Hellenic Conference on Artificial Intelligence, SETN-2002*, A.T.E.I. of Thessaloniki, Thessaloniki, 203-214.

8. Βίρβου, Μ., Τσιρίγκα, Β. & Μουντρίδου, Μ. (2002). Αυτόματη Προσαρμογή των Διδακτικών Αποφάσεων στις Ανάγκες του Μαθητή: Η Περίπτωση του Συστήματος Διδασκαλίας της Τεχνολογίας Λογισμικού από Απόσταση. *3ο Πανελλήνιο Συνέδριο για τη "Διδακτική των Φυσικών Επιστημών και την Εφαρμογή των Νέων Τεχνολογιών στην Εκπαίδευση"*.

9. Moundridou, M. & Virvou, M. (2001). Evaluating the Impact of Interface Agents in an Intelligent Tutoring Systems Authoring Tool. In: Avouris, N. & Fakotakis, N. (eds.): *Advances in Human-Computer Interaction I: Proceedings of the Pan-Hellenic Conference with International participation in Human-Computer interaction - PC-HCI 2001*, Typorama Publications, Patras, 371-376.

CITATIONS (NOVEMBER 2023)

Google Scholar: Citations: 649 | h-index: 11 | i-10 index: 12.

Scopus: Citations: 218 | h-index: 7.

ResearchGate: 431 citations | h-index: 9.

REVIEWER FOR INTERNATIONAL JOURNALS

- *Technology in Society*. Editor-in-Chief: Charla Griffy-Brown. Elsevier.
- *Interactive Learning Environments*. Editors: Joseph Psotka & S L Greener. Taylor & Francis.
- *International Journal on Artificial Intelligence Tools*. Editor-in-Chief: N G Bourbakis. World Scientific.
- *Computers & Education*. Editors: Rachelle S. Heller & Jean D.M. Underwood. Elsevier Science.
- *Artificial Intelligence in Medicine*. Editor: Klaus-Peter Adlassnig. Elsevier.
- *Fuzzy Sets and Systems*. Editors: Didier Dubois & Henri Prade. Elsevier.
- *International Journal of Computational Intelligence Studies*. Editor: George A. Tsihrintzis. Inderscience.

TEACHING EXPERIENCE

Undergraduate courses

- Educational Technology-Multimedia (ASPETE, 2006-)
- Computer Applications in Education (ASPETE, 2006-)
- Subject Didactics (ASPETE, 2013-15 & 2017-18)
- Informatics and Education (Hellenic Open University, 2007-2008)
- Computers, Introduction to Computer Science (Hellenic Air Force Academy, 2005-2007)
- Informatics (Hellenic Army Academy, 2003-2004)
- E-school (University of Piraeus, 2002-2004)
- Informatics, Procedural Programming, Databases (Hellenic Air Force Technical NCO Academy, 2002-2007)

Postgraduate courses

- Introduction to Educational Technology, Integration of Technology in Educational Practice, Applications of Information and Communication Technologies (ICT) and Assistive Technology in the School and Social Integration of Students with Disabilities and/or Special Learning Needs (Univ. of West Attica: Joint Postgraduate Programme, 2017-)
- Methods and Digital Tools for Educational Evaluation (Univ. of West Attica, Univ. of Athens & ASPETE: Joint Postgraduate Programme, 2020-)
- Innovative Teaching Methods in Engineering Education (ASPETE: Postgraduate Programme, 2015-2017)
- Distance Education (Univ. of Athens & ASPETE: Joint Postgraduate Programme, 2006-2010)
- Information Systems Development Methodologies (Univ. of Piraeus & Univ. of Athens: Joint Postgraduate Programme, 2002-2005)