



# Marina Papastergiou

Items	Number
Book Chapters	2
Articles in International Peer-Reviewed Scientific Journals	29
Articles in Greek Peer-Reviewed Scientific Journals	8
Articles in International Peer-Reviewed Conference Proceedings	11
Articles in Greek Peer-Reviewed Conference Proceedings	26
Google Scholar/Scopus Citations	4233/1880
Google Scholar/Scopus h-index	16/11

## 1 EDUCATION

- Diploma in Computer Engineering and Informatics, Department of Computer Engineering and Informatics, University of Patras (1990)
- Diplôme d'Études Approfondies (D.E.A.) de Didactique des Disciplines, Option: Informatique, Université Paris 7 (1995)
- PhD in Informatics Education, Department of Preschool Education, University of Thessaly (2002)

## 2 EMPLOYMENT HISTORY

1. Director of the Informatics Laboratory of the University of Thessaly Department of Physical Education and Sport Science (DPESS) (2016-today)
2. Professor at the University of Thessaly DPESS (2021-today)
3. Associate Professor at the University of Thessaly DPESS (2015-2021)
4. Assistant Professor at the University of Thessaly DPESS (2011-2015)
5. Lecturer at the University of Thessaly DPESS (2006-2011)
6. Informatics teacher in secondary education (2000-2006)
7. Non-permanent faculty at the following departments of the University of Thessaly: DPESS, Department of Special Education, Department of Primary Education, Department of Preschool Education, Department of Computer Engineering, Telecommunications and Networks (1999-2005)
8. Network engineer within the framework of the project «Network for the Support of Integrated Services at the University of Thessaly» of the University of Thessaly Research Committee. In charge of the development and support of the Network node in Trikala (1997-2000)
9. Scientific collaborator at the Technological Educational Institution of Larisa (1996-1998)
10. Instructor at the Computer Programmers Specialty of the Public Vocational Training Institute of Trikala (1995-1997)
11. Software engineer at the Information Systems and Technological Applications Sector of the Hellenic Agency for Local Development and Local Government SA (1991-1994)

## 3 PUBLICATIONS

### 3.1 Book Chapters

1. Solomonidou, C., **Papastergiou, M.**, & Tasios, A. (2007). Aspects of the relationships of boys and girls with technology: Representations and uses of technology in everyday life. In E. Drenoyianni, F. Seroglou & E. Tressou (Eds.), *Gender and Education: Mathematics, Science and New Technologies* (pp. 275-291). Athens: Kaleidoscope Editions. (in Greek)
2. Siakavaras, I., **Papastergiou, M.**, & Comoutos, N. (2018). Mobile games in computer science education: Current state and proposal of a mobile game design that incorporates physical activity. In T. Mikropoulos (Ed.), *Research on e-Learning and ICT in education: Technological, pedagogical and instructional perspectives* (pp. 243-255). Switzerland: Springer.

### 3.2 Articles in International Peer-Reviewed Scientific Journals

1. **Papastergiou, M.**, & Solomonidou, C. (2003). Internet-based learning in higher education: Current modes and research trends towards constructivist and collaborative learning environments. *THEMES in Education*, 4(2), 155-176.
2. **Papastergiou, M.**, & Solomonidou, C. (2005). Gender issues in Internet access and favourite Internet activities among Greek high school pupils inside and outside school. *Computers and Education*, 44(4), 377-393.
3. **Papastergiou, M.** (2005). Students' mental models of the Internet and their didactical exploitation in Informatics education. *Education and Information Technologies*, 10(4), 341-360.
4. **Papastergiou, M.** (2005). Learning to design and implement educational websites within preservice training: A Project-Based Learning environment and its impact on student teachers. *Learning, Media and Technology*, 30(3), 263-279.
5. **Papastergiou, M.** (2006). Course Management Systems as tools for the creation of online learning environments: Evaluation from a social constructivist perspective and implications for their design. *International Journal on E-Learning*, 5(4), 593-622.
6. **Papastergiou, M.** (2007). Use of a Course Management System based on Claroline to support a social constructivist inspired course: A Greek case study. *Educational Media International*, 44(1), 43-59.
7. **Papastergiou, M.** (2008). Are Computer Science and Information Technology still masculine fields? High school students' perceptions and career choices. *Computers and Education*, 51(2), 594-608.
8. **Papastergiou, M.** (2009). Digital game-based learning in high-school computer science education: Impact on educational effectiveness and student motivation. *Computers and Education*, 52(1), 1-12.
9. **Papastergiou, M.** (2009). Online computer games as collaborative learning environments: Prospects and challenges for tertiary education. *Journal of Educational Technology Systems*, 37(1), 19-38.
10. **Papastergiou, M.** (2009). Exploring the potential of computer and video games for health and physical education: A literature review. *Computers and Education*, 53(3), 603-622.
11. **Papastergiou, M.** (2010). Enhancing physical education and sport science students' self-efficacy and attitudes regarding information and communication technologies through a computer literacy course. *Computers and Education*, 54(1), 298-308.
12. **Papastergiou, M.** (2011). Physical education and sport science undergraduate students as multimedia and Web developers: Moving from the user's to the creator's perspective. *Education and Information Technologies*, 16(3), 281-299.
13. **Papastergiou, M.**, Antoniou, P., & Apostolou, M. (2011). Effects of student participation in an online learning community on environmental education: A Greek case study. *Technology, Pedagogy and Education*, 20(2), 127-142.

14. **Papastergiou, M.**, Gerodimos, V., & Antoniou, P. (2011). Multimedia blogging in Physical Education: Effects on student knowledge and ICT self-efficacy. *Computers and Education*, 57(3), 1998-2010.
15. Couceiro, R.M., **Papastergiou, M.**, Kordaki, M., & Veloso, A.I. (2013). Design and evaluation of a computer game for the learning of Information and Communication Technologies (ICT) concepts by physical education and sport science students. *Education and Information Technologies*, 18(3), 531-554.
16. **Papastergiou, M.**, & Gerodimos, V. (2013). Can learning of basketball be enhanced through a web-based multimedia course? An experimental study. *Education and Information Technologies*, 18(3), 459-478.
17. **Papastergiou, M.**, Pollatou, E., Theofylaktou, I., & Karadimou, K. (2014). Examining the potential of Web-based multimedia to support complex fine motor skill learning: An empirical study. *Education and Information Technologies*, 19(4), 817-839.
18. Pateraki, B., Pollatou, E., **Papastergiou, M.**, & Karadimou, K. (2014). Multimedia environment and gender in motor-rhythmic performance of a dance routine with ball, accompanied by an adjusted music composition. *Journal of Education and Training*, 1(1), 1-9.
19. Kordaki, M., **Papastergiou, M.**, & Psomos, P. (2016). Students' conceptions in the design of a computer card game for learning computer literacy issues: A case study. *Education and Information Technologies*, 21(4), 837-862.
20. Vernadakis, N., **Papastergiou, M.**, Zetou, E., & Antoniou, P. (2015). The impact of an exergame-based intervention on children's fundamental motor skills. *Computers and Education*, 83, 90-102.
21. Tzanetakos, N., **Papastergiou, M.**, Vernadakis, N., Antoniou, P. (2017). Utilizing physically interactive videogames for the balance training of adolescents with deafness within a physical education course. *Journal of Physical Education and Sport*, 17(2), 614-623.
22. Vernadakis, N., **Papastergiou, M.**, Giannousi, M., & Antoniou, P. (2018). The effect of an exergame-based intervention on balance ability of deaf adolescents. *Sport Science*, 11(2018), 36-41.
23. **Papastergiou, M.**, Natsis, P., Vernadakis, N., Antoniou, P. (2021). Introducing tablets and a mobile fitness application into primary school physical education. *Education and Information Technologies*, 26(1), 799-816.
24. **Papastergiou, M.**, & Mastrogiannis, I. (2021). Design, development and evaluation of open interactive learning objects for secondary school physical education. *Education and Information Technologies*, 26(3), 2981-3007.
25. **Papastergiou, M.**, Kanaros, D., Papamichou, A., & Vernadakis, N. (2021). Effects of a project based on mobile applications, exergames and a Web 2.0 social learning platform on students' physical activity and nutritional criteria in the era of COVID 19. *Educational Media International*, 58(4), 297-316.
26. Syropoulou, A., Vernadakis, N., **Papastergiou, M.**, & Kourtessis, T. (2021). Psychometric evaluation of the Rosenberg Self-Esteem Scale in primary school students with mild intellectual disability: First evidence. *Research in Developmental Disabilities*, 114,103964.
27. **Papastergiou, M.**, Andreadou, E., Vernadakis, N., & Antoniou, P. (2021). Effect of tablet-based circuit training on the attitudes and intentions of primary school students regarding physical activity and exercise. *Journal of Physical Education and Sport*, 21(Suppl. 3), 2157-2164.
28. Syropoulou, A., Vernadakis, N., **Papastergiou, M.**, & Kourtessis, T. (2021). Dimensionality of the Rosenberg self-esteem scale among Greek primary school students. *International Journal of Instruction*, 14(4), 933-944.
29. Syropoulou, A., Vernadakis, N., **Papastergiou, M.**, & Kourtessis, T. (2021). The presence, enjoyment, mood experience, attitude and preference towards exergames scale in children with mild intellectual disability. *Sport Sciences for Health*, 18(1), 203-210.

### 3.3 Articles in Greek Peer-Reviewed Scientific Journals

1. **Papastergiou, M.**, & Thireos, E. (2010). Information and communication technology in health education: Theoretical framework, empirical findings and research perspectives. *Archives of Hellenic Medicine*, 27(2), 239-258.  
7 more articles (in Greek)

### 3.4 Articles in International Peer-Reviewed Conference Proceedings

1. **Papastergiou, M.**, & Solomonidou, C. (2002). How do secondary school pupils perceive the Internet? An investigation of pupils' representations. In K. Fernstrom (Ed.), *Proceedings of the 3rd International Conference on Information Communication Technologies in Education (ICICTE 2002)*, Samos, Greece, July 2002 (pp. 579-585). Athens, Greece: National and Kapodistrian University of Athens.
2. **Papastergiou, M.**, Metallidou, P., & Bonoti, F. (2003). How does e-mail work? A pilot study of student teachers' mental models based on their drawings and reactions to messages of the e-mailing software. In C. Stephanidis (Ed.), *Adjunct Proceedings of the 10th International Conference on Human Computer Interaction (HCI International 2003)*, Heraclion, Greece, June 2003 (pp. 75-76). Heraclion, Greece: Crete University Press.
3. **Papastergiou, M.** (2003). Introducing non-computer science undergraduates to Web development: Results of an investigative study on student teachers. In D. Finkel (Ed.), *Proceedings of the Association for Computing Machinery (ACM) Special Interest Group in Computer Science Education (SIGCSE) 8th Annual Conference on Innovation and Technology in Computer Science Education (ITICSE 2003)*, Thessaloniki, Greece, June/July 2003 (pp. 231-231). New York, USA: ACM Press. Also published in 2003 in ACM SIGCSE Bulletin, 35(3), 231-231, <http://dl.acm.org/citation.cfm?id=961290&picked=prox>
4. **Papastergiou, M.** (2003). Teaching Internet concepts and skills in secondary education: Informatics teachers' views and practices. In K. Fernstrom (Ed.), *Proceedings of the 4th International Conference on Information Communication Technologies in Education (ICICTE 2003)*, Samos, Greece, July 2003 (pp. 349-355). Athens, Greece: National and Kapodistrian University of Athens.
5. **Papastergiou, M.** (2004). Student teachers as educational Web site creators: An evaluation of their difficulties with regard to the Web design and development process within a constructivist and collaborative learning environment. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of the 16th World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2004)*, Lugano, Switzerland, June 2004 (pp. 3406-3411). Chesapeake, VA, USA: Association for the Advancement of Computing in Education (AACE).
6. **Papastergiou, M.** (2004). Educators' mental models of Internet services and their impact on Internet use: The case of electronic mail. In J. Nall & R. Robson (Eds.), *Proceedings of the 9th World Conference on E-Learning in Corporate, Government, Healthcare & Higher Education (E-LEARN 2004)*, Washington DC, USA, November 2004 (pp. 2081-2086). Chesapeake, VA, USA: Association for the Advancement of Computing in Education (AACE).
7. **Papastergiou, M.** (2006). Design, development and evaluation of game-oriented educational software for computer science education. In E. Pearson & P. Bohman (Eds.), *Proceedings of the 18th World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2006)*, Orlando FL, USA, June 2006 (pp. 2141-2148). Chesapeake, VA, USA: Association for the Advancement of Computing in Education (AACE).
8. **Papastergiou, M.** (2006). Training prospective computer engineers in computer science education and educational technology: Students' responses and lessons learned. In E. Pearson & P. Bohman (Eds.), *Proceedings of the 18th World Conference on Educational Multimedia, Hypermedia &*

- Telecommunications (ED-MEDIA 2006)*, Orlando FL, USA, June 2006 (pp. 1605-1612). Chesapeake, VA, USA: Association for the Advancement of Computing in Education (AACE).
9. **Papastergiou, M.** (2008). Physical education students' self-efficacy and attitudes regarding information and communication technologies. In J. Luca & E. Weippl (Eds.), *Proceedings of the 20th World Conference on Educational Multimedia, Hypermedia & Telecommunications (ED-MEDIA 2008)*, Vienna, Austria, July 2008 (pp. 3880-3887). Chesapeake, VA, USA: Association for the Advancement of Computing in Education (AACE).
  10. Couceiro, R. M., Veloso, A., **Papastergiou, M.**, & Kordaki, M. (2010). Design of a computer game for an information technology class. In R. Prada, C. Martinho & P. Santos (Eds.), *Proceedings of the 3rd Conference on Videogame Science and Art (VIDEOJOGOS 2010)*, Lisbon, Portugal, September 2010 (pp. 51-60). Lisbon, Portugal: Technical University of Lisbon. Also published in 2011 in *Revista Prisma*, 14(2011), Especial Videojogos 2010, <http://ojs.letras.up.pt/index.php/prismacom/article/view/1991>
  11. Tzanetakos, N., Antoniou, P., **Papastergiou, M.**, & Vernadakis, N. (2011). The investigation of the influence of exergames on the balance of deaf children. In D. Gouscos & M. Meimaris (Eds.), *Proceedings of the 5th European Conference on Games Based Learning (ECGBL 2011)*, Athens, Greece, October 2011 (pp. 767-770). Athens, Greece: National and Kapodistrian University of Athens.

### 3.5 Articles in Greek Peer-Reviewed Conference Proceedings

26 articles (in Greek)

## 4 ORAL PRESENTATIONS IN GREEK CONFERENCES (besides those cited in 3.5)

4 presentations (with abstracts published in peer-reviewed Books of Abstracts)

## 5 RESEARCH & DEVELOPMENT PROGRAMMES

1. «The Island of the Phaeacians: Utilization of the Internet and computers in primary education». University of Thessaly Research Committee (Code: 2334). *Research Fellow (1999)*.
2. «Provision of services for the implementation and operation of the Bags of Aeolus Network in the Prefectures of Larissa, Trikala, Magnesia and Fthiotida». University of Thessaly Research Committee (Code: 2449). *Network Engineer (2000)*.
3. «University of Thessaly Integrated Services Support Network». University of Thessaly Research Committee (Codes: 2133 & 2487). *Network Engineer, in charge of the development and support of the node of the University of Thessaly Network in Trikala (1997-2000)*.
4. «Creation of e-learning infrastructures for Physical Education and Information and Communication Technologies topics». University of Thessaly Research Committee (Code: 3945). *Scientific Coordinator (2009-2010)*.
5. «Design, development and evaluation of online multimedia courses for the learning of topics related to physical exercise». University of Thessaly Research Committee (Code: 4015). *Scientific Coordinator (2009-2010)*.
6. «Coalition for Health – Exercise, development of exercise programs as a means for the prevention and rehabilitation of chronic diseases – intervention programs». University of Thessaly Research Committee (Code: 4459.01). Scientific Coordinator Dr. V. Gerodimos (DPES). *Member of the Scientific Team (2012-2013)*.

7. «Digital School II: Extension and Utilization of the Digital School Platform, the Interactive Books and the Learning Object Repository». NSRF 2014-2020, Code: 5001312, Final beneficiary: Computer Technology Institute and Press «Diophantus». *Scientific Coordinator of Digital Educational Material for Physical Education (2017-2019 & 2020-2021)*.
8. «Training of B-Level ICT Trainers», Act: «In-Service Teachers' Training in the Utilization and Application of Digital Technologies in the Teaching Practice», NSRF 2014-2020, Contracting authority: Computer Technology Institute and Press «Diophantus», Contractor: Consortium of 9 Greek Universities, Code: 5833, Scientific Coordinator: Dr. P. Politis (UTH). *Coordinator of the «Physical Education & Health» Training Centers of the University of Thessaly, Instructor and Supervisor of the Practicum (2018-2019)*.

## 6 TEACHING EXPERIENCE

### 6.1 Undergraduate Teaching

1. Technological Educational Institution of Larisa, General Department of Exact Sciences. Teaching of the courses «Computer Programming I» and «Computer Programming II» (scientific collaborator, 1996-1998)
2. University of Thessaly, Departments: DPESS, Department of Special Education, Department of Primary Education, Department of Preschool Education, Department of Computer Engineering, Telecommunications and Networks. Teaching of the courses «Computing», «Introduction to Informatics», «Internet Applications in Education», «Basic Internet Services and their Pedagogical Use», «Basic Informatics Applications in Education», «Informatics Education I», «Informatics Education II» (Non-permanent faculty, 1999-2005)
3. University of Thessaly DPESS. Teaching of the courses «Computing», «Computing – Applications in Physical Education», «Information Technology in Education», «Computing in Teaching Physical Education», «Information Technology in Education with emphasis on Physical Education», «Computing in Physical Education and Sport I», «Computing in Physical Education and Sport II» (Faculty, 2007-today)

### 6.2 Postgraduate Teaching

1. Master's Programme «Contemporary Learning Environments and Production of Teaching Materials», University of Thessaly Department of Primary Education. Participation in the teaching of the course «Teaching and Learning with Information and Communication Technologies (ICT): Research Perspectives» with a lecture entitled «The Internet in teaching and learning: Students' mental representations of the Internet and open-source course management systems» (2006-2007)
2. Inter-University Inter-Departmental Master's Programme «Exercise and Quality of Life» of the DPESSs of the Democritus University of Thrace and the University of Thessaly. Participation in the teaching of the course «New Technologies in the Training Process» with lectures entitled «Digital games for the learning of athletic skills and the improvement of fitness» and «Utilization of multimedia blogs for the learning of athletic skills» (2010-2011)
3. «European Master's Programme in Sport and Exercise Psychology» (EMSEP), University of Thessaly DPESS in collaboration with European Universities, and Master's Programme «Psychology of Physical Education and Sport» (former Master's Programme «Psychology of Exercise»), University of Thessaly DPESS. Teaching of the seminar courses «ICT Applications for Sport and Exercise», «Online Bibliographic Searches», «Website Creation» and «ICT Skills for Research and Presentation» (2010-2021)

4. «European Master's Programme in Sport and Exercise Psychology» (EMSEP), University of Thessaly DPESS in collaboration with European Universities, and Master's Programme «Psychology of Physical Education and Sport» (former Master's Programme «Psychology of Exercise»), University of Thessaly DPESS. Teaching of the course «Information & Communication Technology for Sport & Exercise» (2016-2021)

## **7 ADMINISTRATIVE EXPERIENCE**

1. Member of the Committee for the Creation of Digital Interactive Educational Materials of the Inter-University Inter-Departmental Program of Postgraduate Studies «Exercise and Quality of Life» of the DPESSs of the Democritus University of Thrace and the University of Thessaly (2007)
2. Member of various committees of the University of Thessaly DPESS (Network Committee, Semester Timetable Committee, Entry Exams Committee, Student Feeding Committee, etc.) (2009-2021)
3. In charge of the Electronic Assessment of the University of Thessaly DPESS courses by the students of the department (2009-2021)
4. Member of the Expanded Institutional Committee of the project «Open Academic Courses of the University of Thessaly» (2010-2015)

## **8 OTHER SCIENTIFIC ACTIVITIES**

### **8.1 Supervision/Co-supervision of Doctoral Theses**

#### **8.1.1 Supervisor of Doctoral Theses**

4 doctoral theses in progress

#### **8.1.2 Co-supervisor of Doctoral Theses**

1. I. Berdousis (2019)
2. P. Psomos (2020)
3. A. Syropoulou (2021)

1 doctoral thesis in progress

### **8.2 Supervision/Co-supervision of Master's Dissertations**

#### **8.2.1 Co-supervisor of Master's Dissertations**

1. R.M. Couceiro (2010). Co-supervisor within the framework of the Erasmus Project.

#### **8.2.2 Second supervisor of Master's Dissertations**

1. M. Apostolou (2009)
2. N. Tzanetakos (2012)

### **8.3 Participation in Scientific Committees of International Conferences**

1. IEEE International Conference on Digital Game and Intelligent Toy Enhanced Learning (DIGITEL2010, DIGITEL2012)
2. International Conference on E-Learning and Games (Edutainment 2011)
3. Sciences et Technologies de l'Information et de la Communication (STIC) en Milieu Éducatif (DIDAPRO 2011)

4. European Conference on Games Based Learning (ECGBL2012, ECGBL2013, ECGBL2014, ECGBL2015, ECGBL2016, ECGBL2017, ECGBL2018, ECGBL2019, ECGBL 2021)
5. IEEE International Conference on Advanced Learning Technologies (ICALT2010, ICALT2011, ICALT2012, ICALT2013, ICALT2014, ICALT2015, ICALT2016, ICALT2017, ICALT2018, ICALT2019, ICALT 2020, ICALT2021)

#### **8.4 Participation in Scientific Committees of Greek Conferences**

1. Scientific Association of Primary Education Teachers for the Dissemination of Information and Communication Technologies in Education (SAPE-DICTE) Conferences: «The Future of Learning» (2010, 2011)
2. Hellenic Association for the Study of Internet Addiction Disorder (HASIAD) Conferences: «E-Life» (2015, 2016)
3. Scientific Association for the Promotion of Educational Innovation (SAPEI) Conferences: «International Conference for the Promotion of Innovation in Education» (2018, 2019, 2020)
4. Hellenic Association of ICT in Education (HAICTE) Conferences: Panhellenic Conference «Informatics Education» (2010, 2012, 2014), Panhellenic Conference «Introduction and use of ICT in the Educational Procedure» (2013, 2017, 2019), Panhellenic Conference with International Participation «Information and Communication Technologies in Education» (2010, 2012, 2014, 2016, 2018, 2020, 2022), Panhellenic Conference “Digital Educational Material and Electronic Learning 2.0” (ELOER 2016, 2019)

#### **8.5 Editorial Activity**

1. Member of the Editorial Board of the international volume: Payne, C. (Ed.) (2009). Information Technology and Constructivism in Higher Education: Progressive Learning Frameworks. Hershey, PA: Information Science Reference IGI Global
2. Member of the Editorial Board of the international scientific journal «Research in Learning Technology» (2010-2017)
3. Member of the Editorial Board of the international scientific journal «Education and Information Technologies» (2018-today)

#### **8.6 Reviewing/examination of Scientific Papers, Doctoral Theses and Research Proposals**

1. Reviewer for 21 international and 3 national scientific journals
2. Reviewer for 3 international scientific volumes
3. Reviewer for 1 international and 3 national scientific conferences (besides those cited in 8.3 and 8.4)
4. Reviewer of a proposal for funded research, University of Missouri Research Board (2012)
5. Reviewer of research proposals for Master’s dissertations, Inter-University Inter-Departmental Master’s Programme «Exercise and Quality of Life» of the DPESs of the Democritus University of Thrace and the University of Thessaly (2012-2013)
6. External examiner of PhD theses at the University of Brunel (M. Scott, 2015) and the University of Juvaskyla (T. Kari, 2016)
7. Examiner of PhD theses at the Democritus University of Thrace (2011), the University of Thessaly (2015) and the University of the Aegean (2019, 2020)

#### **8.7 Membership in Scientific Societies**

1. Technical Chamber of Greece (TCG)
2. Hellenic Informatics Union (HIU)



3. Hellenic Association of ICT in Education (HAICTE)