

Emmanouil Elias Nikoloudakis (Ph.D), (M.Sc)

Mathematician, Lecturer (PD 407/80), University of Athens

Curriculum Vitae

email: enikolou@otenet.gr

Academic Qualifications

- 2009: **Doctoral Dissertation**, entitled “Instructional Models and the ways of interaction among teachers and students in the Teaching of Mathematics”, Dept. of Primary Education, National & Kapodistrian University of Athens.
- 2007: **Master in Educational Technology & Digital Systems**, Dept. of Digital Systems, University of Piraeus.
- 2000: **Master in Didactics and Methodology of Mathematics**, Dept. of Mathematics, National & Kapodistrian University of Athens.
- 1979: BSc in Mathematics, Dept. of Mathematics, National & Kapodistrian University of Athens.

Publications in International Scientific Journals & Conferences (peer reviewed)

- Dimakos, G., Nikoloudakis E., Ferentinos, S., Choustoulakis, E. (2010) The role of examples in Cognitive Apprenticeship, “Quaderni di Ricerca in Didattica (Matematica)”, n. 20, G.R.I.M. (Department of Mathematics, University of Palermo, Italy) pp161-173
- Dimakos, G., Nikoloudakis, E. (2009). Analyzing the role of Shapes in the Process of Writing Proofs in Model of p-m Combinations. *The Teaching Of Mathematics Vol. XII, 1, pp. 15–24*
- Dimakos, G., Nikoloudakis E. (2008). Teaching Euclidean Geometry using a synthesis by two well known theories: van Hiele’s theory and Cognitive Apprenticeship. *Far East Journal of Mathematical Education Volume 2, Issue 2, Pages 187 – 217*
- Nikoloudakis, E. (2009/2010). A Proposed Model to Teach Geometry to First-Year Senior High School Students *International Journal for mathematics Education (HMS i JME) Vol. 2, pp. 17–45 Athens*
- Dimakos, G., Nikoloudakis E., Ferentinos, S., Choustoulakis, E. (2007) Developing a Proof-Writing Tool for Novice lyceum Geometry Students. *The Teaching Of Mathematics 2007, Vol. X, 2, pp. 87–106*
- Dimakos, G., Nikoloudakis, E. To Prove or not to Prove *Research in Mathematics Education (RME)*, (Submitted)
- Nikoloudakis, E. Helping students of primary and secondary school to make invisible thoughts visible in Euclidean geometry“ *Quaderni di Ricerca in*

Didattica (Matematica)”, n. 20, G.R.I.M. (Department of Mathematics, University of Palermo, Italy) (Accepted)

Publications in greek scientific journals (peer reviewed)

- Nikoloudakis, E. (2009). Teaching the theorem of bisector with the aid of Van Hiele theory and Cognitive Apprenticeship Model, *Astrolavos*, Issue 5, pp.96-110, HMS, Athens. (in greek)
- Nikoloudakis, E., Ferentinos, S., Paraskeva, F., Ioannou, S., Choustoulakis, E. (2007). Assessment of teaching the Pythagorean Theorem using internet technologies: a research approach, *Astrolavos*, Issue 6, pp.82-104, HMS, Athens. (in greek)
- Nikoloudakis, E., Ferentinos, S., Choustoulakis, E. (2006). Computer as a cognitive tool in the teaching of Mathematics, *Astrolavos*, Issue 5, pp.96-110, HMS, Athens. (in greek)
- Nikoloudakis, E., Aristidou, M. (2010). Geometric Solids: a teaching perspective for students in primary school using the internet, *Astrolavos*, Issue 13, HMS, Athens. (in greek)

Publications in Conferences

- Nikoloudakis E., (2010). Scaffolding using ICT in a structured form worksheet, 14th Panhellenic Conference on Informatics (PCI 2010) at Tripoli, Greece, during 10 - 12 of September, 2010. (Workshop)
- Nikoloudakis E., Dimakos, G. (2009). Using Learning Objects to teach Euclidean Geometry. 13th Panhellenic Conference on Informatics (PCI 2009) Workshop in Education *Proceedings of PCI2009/Workshop In Education Athens p.p. 277-286* Corfu Island, Greece, during 10 - 12 of September, 2009.
- Dimakos, G., Nikoloudakis, E. (2008). Teaching Euclidean geometry using the Theory of Van Hiele in the frame of ICT and collaborative learning, *Proceedings of the 5th Colloquium of Didactics of Mathematics*, Rethymno.
- Nikoloudakis, E., Ferentinos, S., Choustoulakis, E. (2008). Overcoming teaching obstacles in Geometry deploying representations of ICT, *Proceedings of 5th Colloquium of Didactics of Mathematics*, Rethymno.

Books

- Nikoloudakis, E. The proof in the model of P-M combinations
- Nikoloudakis, E, ICT and Logicomathematical Thought
- Nikoloudakis, E ., «Elements of Didactics of Mathematics»
- Nikoloudakis, E ., «Algebra. Theory, Methods, Exercises »

Participation in research projects and educational programmes

- Member of work group of Pedagogical Institute regarding the authoring of books for the education of secondary school educators in ICT.
- International research project, funded by University of Piraeus and Innovation Center of Learning Technologies regarding the translation and adaptation of interactive learning material of INTEL (SKOOL.com)
- Research project regarding Moodle elearning services, co-funded by the Information Society SA, and University of Piraeus for the production of pilot electronic lessons for digital comics.
- Empirical Research for the investigation of van Hiele level of geometric thought of students in Lyceum.
- Empirical research for the investigation of Hoffer competences of students in Lyceum in West Suburbs of Attica.
- Empirical Research for the investigation of competences in proof for students in Lyceum.