

## Βιβλιογραφικές αναφορές

- Balacheff, N. & Gaudin, N. (2002). Students conceptions: an introduction to formal characterization. *Les cahiers du laboratoire Leibniz*, 66.
- Breidenbach. D., Dubinsky, D., Hawks, J. & Nichols, D. (1992). Development of the process conception of function. *Educational Studies in Mathematics*, 10 (2.3), 241-285.
- Brousseau, G. (1997) *Theory of didactical situations in mathematics*. Dordrecht: Kluwer Publ.
- Bruner, J. S. (1964). The course of cognitive growth. *American psychologist*, 19, 1-15.
- Chevallard, Y. (1985). *La transposition didactique*. La Pensee Sauvage editions: Grenoble.
- Chevallard, Y. (1992). Concepts fondamentaux de la didactique: perspectives apportées par une approche anthropologique. *Recherches en Didactique des Mathématiques*, 12(1), 73-111.
- Chevallard, Y. (2005). Steps towards a new epistemology in Mathematics education. In M. Bosch (Ed), *Proceedings of CERME 4*. (21-30). University of Barcelona:Spain.
- Dubinsky, E & Harel, G. (1992). The nature of the process conception of function. In G. Harel & E. Dubinsky (Eds), *The Concept of Function. Aspects of Epistemology and Pedagogy* (pp. 85-106). U.S.A: M.A.A.
- Fischbein, E. (1978). Intuition and mathematical education. In E. Cohors-Fresenborg & I. Washsmuth (Eds.), *Proceedings of the 2<sup>nd</sup> PME Conference*. (pp. 148-176). Osnabrück, Germany.
- Fischbein, E. (1983). Role of implicit models in solving elementary arithmetical problems. In R. Hershkowitz (Ed.), *Proceedings of the 7<sup>th</sup> PME Conference*. (pp. 2-18). Soresh, Israel.
- Efraim Fischbein; Maria Deri; Maria Sainati Nello; Maria Sciolis Marino, 1985, The Role of Implicit Models in Solving Verbal Problems in Multiplication and Division, *Journal for Research in Mathematics Education*, Vol. 16, No. 1, pp. 3-17.
- Hershkowitz, R. (1990). Psychological Aspects of Learning Geometry. In P. Nesher & J. Kilpatrick (Eds.). *Mathematics and Cognition: a Research Synthesis by PME*. (pp70-95). Cambridge University Press: Cambridge.
- Hershkowitz, R. & Breen, C. (2006). Foreword – Expansion and Dilmmas. In A. Gutierrez and P. Boero (Eds.). *Handbook of Research on the Psychology of Mathematics Education: Past, Present and Future*, (pp. ix-xii). Sense publishers: Rotterdam.
- Hitt, F. (1998). Difficulties in the articulation of different representations linked to the concept of function. *The Journal of Mathematical Behavior*, 17(1), 123-134.
- Kaldrimidou M. & Ikonomou A., (1998). Epistemological and metacognitive conceptions as factors involved in the learning of mathematics: a study which focuses on graphic representations of functions, in M. Bartolini-Bussi, A. Sierpinska,

H. Steinbring (Eds.), *Language and Communication in the Mathematics Classroom*, NCTM: Reston VA, pp 271-288

Καλδρυμίδου, Μ., & Κοντοζήσης, Δ. (2003). Εικονικές αναπαραστάσεις και εννοιολογική προσέγγιση των κλασματικών εννοιών: η έννοια του μισού στα νήπια. Στο Α. Γαγάτση & I. Ηλία (Επιμ.), *Οι αναπαραστάσεις και τα Γεωμετρικά Μοντέλα στη Μάθηση των Μαθηματικών*. Εκδ. Intercollege:Λευκωσία, I: 179-194.

Καλδρυμίδου Μ., Μορόγλου, Ε. (2007), Αντιλήψεις για την έννοια της συνάρτησης και ο ρόλος του αναπαραστατικού πλαισίου, στο Χ. Σακονίδης, Δ. Δεσλή (επιμ.), *Πρακτικά 2<sup>ου</sup> Συνεδρίου της Ένωσης Ερευνητών Διδακτικής Μαθηματικών (En.E.DI.M)*, Αθήνα: Τυπωθήτω, 293-303.

Kaldrimidou, M., Moroglou, M. (2009). On functions: Representations and students' conceptions, In M. Tzekaki, M. Kaldrimidou, H. Sakonidis (eds) *Proceedings of the 33<sup>rd</sup> Conference of the International Group for the Psychology of Mathematics Education*. Vol. 3: 265-272, Thessaloniki, Greece: PME

Kaldrimidou, M., Sakonidis, H. & Tzekaki, M. (2008), Comparative readings of the nature of the mathematical knowledge under construction in the classroom, *ZDM*, 40:235-248

McGowen, M. & Tall, D. (1999). Concepts maps and Schematic Diagrams as Devices for Documenting the Growth of mathematical Knowledge. In O. Zaslavsky (Ed.) *Proceedings of the 23<sup>rd</sup> Conference of PME*. (3, pp 305-312). Haifa, Israel

Μπιζά, Ε., Πίττα, Δ., Χρίστου, Κ. & Ζαχαριάδης, Θ. (2003). Διαφορετικές προσεγγίσεις στον υπολογισμό ορίου στον ενσαρκωμένο, διαδικασιοεννοιολογικό και αξιωματικό κόσμο. Στο Τ. Τριανταφυλλίδης, Κ. Χατζηκυριάκου, Π. Πολίτης, Α. Χρονάκη (Επιμ.), *Πρακτικά του 6<sup>ου</sup> Πανελλήνιου Συνεδρίου Διδακτικής Μαθηματικών και Πληροφορικής στην Εκπαίδευση*, (σελ.207-215), Βόλος: Πανεπιστήμιο Θεσσαλίας.

Mulligan, J. & Vergnaud, G. (2006). Research on children's early mathematical development. In A. Gutierrez and P. Boero (Eds). *Handbook of Research on the Psychology of Mathematics Education: Past, Present and Future*, (pp. 117-146). Sense publishers: Rotterdam.

Novak, J. (1998). *Learning, Creating and Using Knowledge: Concept Maps as Facilitative Tools in Schools & Corporations*. New Jersey: Lawrence Erlbaum Associates, Publishers.

Novak, J. (1990). Concept maps and Vee diagrams: two metacognitive tools for facilitate meaningful learning. *Instructional Science*, 19 (1), 29-52.

Sfard, A. (1991). On the dual nature of mathematical conceptions: Reflections on processes and objects as different sides of the same coin. *Educational Studies in Mathematics*, 22, 1-36.

Sfard, A. (1992). Operational origins of mathematical objects and the quandary of reification - the case of function. In G. Harel & E. Dubinsky (Eds.), *The Concept of Function: Aspects of Epistemology and Pedagogy* (pp. 59-84). U.S.A: MAA.

- Steinbring, H. (1991). The Concept of Chance in Everyday Teaching: Aspects of a Social Epistemology of Mathematical Knowledge. *Educational Studies in Mathematics*, 22, 503-522.
- Steinbring, H. (1997). Epistemological investigation of classroom interaction in elementary mathematics teaching. *Educational Studies in Mathematics*, 32 (1), 49-92.
- Steinbring, H. (1998a). Stoff Didaktik to social interactionism: an evolution of approaches to the study of language and communication in German mathematics education research. In H. Steinbring, M. Bartolini-Bussi, & A. Sierpinska (Eds.), *Language and Communication in the Mathematics Classroom* (pp. 102-119). Reston, Virginia: NCTM.
- Steinbring, H. (1998b). Epistemological constraints of mathematical knowledge in social learning settings. In: A. Sierpinska, & J. Kilpatrick (Eds.), *Mathematics education as a research domain* (pp. 513–526). Dordrecht: Kluwer.
- Steinbring, H. (2005). *The construction of new mathematical knowledge in classroom interaction*. Springer: USA.
- Steinbring, H. (2006). What makes a sign a mathematical sign?—An epistemological perspective on mathematical interaction. *Educational Studies in Mathematics*, 61(1/2), 133–162.
- Tall, D. & MdNor Bakar (1992) Students' mental prototypes for functions and graphs. *International Journal of Mathematics Education in Science & Technology*, 23 (1), 39–50.
- Tall, D. (2004). Thinking through three worlds of Mathematics, in *Proceedings of the 28<sup>th</sup> Conference of the International Group for the Psychology of Mathematics Education*, Vol. 4, 281-288. *Proceedings of the 23<sup>rd</sup> Conference of the International Group for the Psychology of Mathematics Education*, Vol. 1, 95-110
- Tall, D. (2007). Developing a theory of mathematical growth. *Zentralblatt für Didaktik der Mathematik, ZDM Mathematics Education*, 39, 145–154.
- Tall, D. & Vinner, S. (1981). Concept image and concept definition with particular reference to limits and continuity. *Educational Studies in Mathematics*, 12, 151-169.
- Vergnaud, G. (1982). A classification of cognitive tasks and operations of thought involved in addition and subtraction problems. In T. P. Carpenter, J. M. Moser & T. A. Romberg (Eds), *Addition and Subtraction: A cognitive perspective* (pp. 39-59). Hillsdale, NJ, USA: Lawrence Erlbaum.
- Vergnaud, G. (1996). The theory of conceptual fields. In L. Steffe & P. Nesher (Eds) *Theories of mathematical learning* (pp. 219-239). Mawah, NJ, USA: Lawrence Erlbaum.