GEORGES E. MANOUSSAKIS

Mathematician

PhD on Operations Research

L.E.S.

Department of Business Management

University of Patras

Curriculum Vitae

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I. Personal Data

- **Full Name:** Georges Manoussakis
- **Father's name:** Emmanuel
- **Mother's name:** Marietta
- **Date of Birth:** 11 June 1967
- **Place of birth:** Athens, Greece
- **Nationality:** Hellenic
- **Marital State:** Married (2 children)

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II. STUDIES

- PhD in the Department of Mathematics of the University of Patras *(6/2005):* "New Techniques in Operations Research".

- Graduate Scholarship *(7/1992-3/2005)*.

- Begins post graduate studies in the Department of Mathematics of the University of Patras *(9/1991)*.

- Graduate Studies in Institut Fourier of the University of Grenoble (France) on Pure Mathematics *(10/1990-7/1991)*.

- Bachelor on Mathematics from the Department of Mathematics of the University of Patras *(6/1990)*.

- Begins studies in the Department of Mathematics of the University of Patras *(9/1986)*.

- Graduates from Lycee Leonin de Patissia (*6/1985)*.

III. OTHER KNOWLEDGE

1. Languages

- English (Proficiency – Teaching Licence)
- French (Sorbonne II)

2. Computer Knowledge

- Certificate of 2nd level (June 2015)
- *Operating Systems:* DOS, Windows 98/NT/2000/XP/10, Unix (Basics).
- *Programming Languages:* Basic, Fortran 90, C++.
- *Mathematical Software:* SPSS, Mathematica 4.0, Statgraphics, MATLAB, MATHGV, Modellus, FunctionProbe, SketchpadGr, EucliDraw, Geogebra, R, EViews.
- *Other Software:* Microsoft Office 2000.
- *Editing Software:* MIKTEX, LATEX, WORD.

- *Educational Software:* e-school, mahara, e-class, LAMS

IV. Teaching Experience

- From November 2017 I teach several courses on Mathematics, Statistics and Operations Research in the Department of Business Administration of the University of Patras (pre-graduate and post-graduate level). Laboratory courses are included.
- From September 1992 until June 2005 I taught several surrogate courses (Probability, Statistics, Operations Research, Mathematical Programming) in the Department of Mathematics of the University of Patras. Συγκεκριμένα αυτά είναι:
- I.E.K. Patras (programming in C++). (1994-1995)
- From September 2005 until November 2017 I taught mathematics in public high schools.
- In 1997-1998 I worked in the «Hellenic College» preparing high school graduates for UK Studies. The courses were in English.
- I also taught in many seminars organized by the Greek Mathematical Society, the Department of Mathematics of the University of Patras and the Hellenic Institute of Statistics.

V. ADMINISTRATIVE EXPERIENCE

- Financial Coordinator in the Department of Business Administration of the University of Patras
- Member of several comities in the Department of Business Administration and the Department of Mathematics of the University of Patras
- Substitute Director in the 14th high school of Patras (2015-2017).

Ε. ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ

1.	1480: Mathematical Approaches and creation of a computational environment for the retrieval of synonyms.	PENED 1997-1998

2.	Evaluation of Educational Software	PENED 1997-1998
3.	Programs for studies from distance	Athens Polytechnic School 1998-1999
1.	Model System of Support for Autistic Persons (ΠΣΥΑ) based on an Intelligent computer system (ΕΣΥΑ) [PAYEYS]	University of Patras. 2013-2015
2.	Ability Evaluation (ATS2020)	Erasmus+. (ITYE «Diophantos»). 2015-2018

E. PARTICIPATION IN INTERNATIONAL SCIENTIFIC CONFERENCES

1. *3rd International Colloquium on Numerical Analysis*, Plovdiv 1994.

2. *4th GRACM Congress on Computational Mechanics*, Πάτρα 2002.

3. *6th Hellenic European Conference on Computer Mathematics and its Applications (HERCMA)*, Αθήνα 2003.

4. *1st International Conference "From Scientific Computing to Computational Engineering"*, Αθήνα 2004.

5. *Σύγχρονες εξελίξεις στα Μαθηματικά. Προγράμματα σπουδών, ερευνητικές κατευθύνσεις κι εφαρμογές*, Πάτρα 2005.

6. *13th International Conference On Fibonacci Numbers And Their Applications*, Πάτρα 2008.

7. *25ο Conference On Mathematical Education, «Mathematical Education and the complex reality of 21*stυ *century»*, Volos 2008.

8. *17th Annual Conference of the Hellenic Finance and Accounting Association (HFAA)*, Piraeus, December 2018

IV. PUBLICATIONS

1. Manoussakis, G. E., (2005), *Families of Optimization Algorithms for Non Linear Functions*, PhD Thesis, Department of Mathematics, University of Patras.

2. Vrahatis, M. N., Androulakis, G. S. & Manoussakis, G. E. (1996), 'A New unconstrained optimization method for imprecise function and gradient values', *Journal of Mathematical Analysis and Applications* **197**, 586-607.

3. Manousakis, G. E., Botsaris, C. A. & Grapsa, T. N. (in press), 'The non-monotone conic algorithm', *Journal of Information and Optimization Sciences*.

4. Manoussakis, G. E., Vrahatis, M. N. & Androulakis, G. S. (1994), 'New Unconsrained Optimization Methods Based on One-Dimensional Rootfinding', in *Proceedings of 3rd International Colloquium on Numerical Analysis*, D. Bainov, A. Dishliev eds., Science Culture Technology Publishing, Oxford Graphic Printers, 1995, pp.127-136.

5. Vrahatis, M. N., Androulakis, G. S. & Manoussakis, G. E. (1994), 'A New Unconstrained Optimization Method for Imprecise Problems', in *Proceedings of 3rd International Colloquium on Numerical Analysis*, D. Bainov, A. Dishliev eds., Science Culture Technology Publishing, Oxford Graphic Printers, 1995, pp.185-194.

6. Manousakis, G., Sotiropoulos, D. G., Botsaris, C. A. & Grapsa, T. N. (2002), 'A non-monotone conic method for unconstrained optimization', in D. T. Tsahalis, ed., *Proceedings of the 4th GRACM Congress on Computational Mechanics* (Vol. 1, pp. 172-179), LFME, Patras.

7. Manousakis, G., Grapsa, T. N. & Botsaris, C. A. (2003), 'A dimension-reducing conic method for unconstrained optimization', in E. A. Lipitakis, ed., *Proceedings of the Sixth Hellenic-European Conference on Mathematics and Informatics* (Vol. 1, pp. 509-514), LEA, Athens.

8. Manousakis, G., Sotiropoulos, D. G., Grapsa, T. N. & Botsaris, C. A. (2004), 'A non-monotone dimension-reducing conic method for unconstrained optimization', in D. T. Tsahalis, ed., *Proceedings of the 1st International Conference "From Scientific Computing to Computational Engineering"* (Vol. 1, pp. 74-81), Patras University Press, Patras.

9. Αφράτης Γ., Καίσαρη Μ., Κολέζα Ε., Μανουσάκης Γ., Μαρκέα Χ., Ντόντος Γ., Παναγιωτόπουλος Λ., Τζούμας Μ. (2016), 'Αναζητώντας τις ρίζες της παραγώγου', στα *Πρακτικά 33^{ου} Πανελλήνιου Συνεδρίου Μαθηματικής Παιδείας: «Μαθηματικά, Θεμέλιο της ανθρώπινης σκέψης»*, σελ. 761-771, Ε.Μ.Ε., Χανιά.

10. Vrahatis, M. N., Androulakis, G. S. & Manoussakis, G. E. (1994), 'A New Unconstrained Method for Imprecise Problems', TR94-05, Division of Computational Mathematics and Informatics, Department of Mathematics, University of Patras, 1994.

11. Manoussakis, G. E., Vrahatis, M. N. & Androulakis, G. S. (1994), 'New Unconstrained Optimization Methods Based on One-Dimentional Rootfinding', TR94-06, Division of Computational Mathematics and Informatics, Department of Mathematics, University of Patras, 1994.

12. Pintelas, P., Zaggouras, C. & Manoussakis**,** G. E. (1998), 'Educational Software Evaluation', TR98-01, Educational Software Development Laboratory, Department of Mathematics, University of Patras, 1998.

13. Σύψας, Π. & Μανουσάκης, Γ. Ε. (1993), *Σημειώσεις για το μάθημα Επιχειρησιακή Έρευνα* (Σημειώσεις για το μάθημα: Επιχειρησιακή Έρευνα), Τμήμα Μαθηματικών, Πάτρα.

14. Sgouras, A., Androulakis, G. S. & Manoussakis, G. E. (2018) "A Methodology of Periodization and Analysis of Time Series Variables: The Case of the Marxian Profit Rate of the European Union in the Period 1960-2016", *Proceedings of the 17th Annual Conference of the Hellenic Finance and Accounting Association (HFAA)*, Piraeus, December 2018

15. Nikolopoulou, E., Manoussakis, G. E. & Androulakis, G. S. (2019) "Single Machine Scheduling against Restrictive Common Due Dates by Binding Constraints Approach", International Journal of Innovative Studies in Sciences and Engineering Technology (IJISSET), Vol. 5, No 9/2019

16. Nikolopoulou, E., Manoussakis, G. E. & Androulakis, G. S. (2019), "Locating binding constraints in LP Problems", AJOR: Vol.9 No.2 2019