CURRICULUM VITAE

I. PERSONAL DETAILS

Name	Theodore
Surname	Monovasilis
Father's Name	Nicholas
Mother's Name	Ioanna
Date of Birth	13/02/1969
Place of Birth	Kastoria
Tel.	
e-mail	tmonovasilis@uowm.gr

II. DEGREES

- Bsc degree in Mathematics, Department of Mathematics, University of Ioannina, (1992).
- Phd in Numerical Analysis, Department of Computer Science and Technology, Faculty of Sciences and Technology, University of Peloponnese, Supervisor: Prof. Simos Theodoros (2006)

III.1 TEACHING EXPERIENCE IN UNDERGRADUATE

Department of International Trade

1996 – 2019:

Courses: Mathematics for finance, Mathematics for economics, Business Statistics, Operational research, Advanced Mathematics.

Department of Public Relation and Communication

1999-2003 and 2011-2020:

Course: Quantitative Methods

Department of Economics

2019 – Today:

Courses: Mathematics for economics, Business Statistics, Advanced Mathematics.

III.2 TEACHING EXPERIENCE IN POSTGRADUATE

Master of Business Administrator

2008 – 2018:

Applied Business Statistics, Quantitative Methods in Business and Logistics.

Master of public relations and marketing with new technologies

2012 – 2019

Courses: Research methods in public relations and marketing and Models of Consumer.

Master of Science (MSc) in "Modern Information Technologies and Services".

2015 - Today:

Courses: «Computational Methods», «Statistical Methods in Education».

Energy investments and environment

2020 – Today:

Courses: «Quantitative Methods in Energy»

IV.1 SCIENTIFIC ACTIVITY

- Editor of the journal: 'Mathematical Methods in the Applied Sciences' , Wiley publications, (Impact Factor 0,84) (http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1476/homepage /EditorialBoard.html)
- Member of the editorial board of the journal 'Numerical Analysis and Appicable Mathematics', Ariviyal Publishing. (ariviyalpublishing.com/mathematical/editorial-board.php).
- Referee on the international journal *Applied Mathematics and Computation* (Elsevier)
- Referee on the international journal: *Journal of Applied Mathematics* (Hindawi)
- Guest editor in special issue in journal *International Journal of Computational Economics and Econometrics*

- Guest editor in special issue in journal *International Journal of financial Economics and Econometrics*

- Co-editor at the proceedings of the *International Conference on Applied Mathematics (ICOAE 2008 and 2009)*

- Referee on *International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2009-2010-2011-2012-2013)*

- Referee on *International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2009)*

- Member of scientific committee of *International Conference on Applied Mathematics (ICOAE 2009)*

- Member of organizing committee of *International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2003, 2004, 2005, 2006, 2007, 2008, 2009)*

- Member of organizing committee of *International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2004)*

IV2 . Research Projects

01/02/2012 – 31/01/2015: Archimedes III' project titled 'Numerical Integration of Differential Equations-NIDE'.

03/10/2007 – 31/12/2008: Interreg III: «Ανάπτυξη συστήματος ασύγχρονης τηλεκπαίδευσης και πιλοτικού προγράμματος εξ αποστάσεως εκπαίδευσης μεταξύ του ΤΕΙ Δυτικής Μακεδονίας - Παράρτημα Καστοριάς (Ελλάδα) του Πανεπιστημίου Κορυτσάς (Αλβανία) ».

01/09/2004 – 31/08/2005: Regional Competitiveness, Innovation and Regional Poilicy (ARCHIMEDES II: TEI of Western Macedonia) funded by the Greek Ministry of Education

01/06/2005 – 31/08/2006: Numerical and Computational methods in Science and Technology (ARCHIMEDES II: TEI of Chalkis) funded by the Greek Ministry of Education

01/09/2002 – 30/06/2005: Software Package for the numerical solution of Differential Equations funded by the Prefecture of Western Macedonia.

V. ACADEMIC ADMINISTRATION

01/09/08 – 30/09/09: Head of Department of International Trade

01/09/10 – 31/08/13: Vice Head of Department of International Trade

01/09/13 – 31/08/19: Head of Department of International Trade

01/09/19 – Today: Head of Department of Economics

VI. RESEARCH INTERESTS:

Numerical Analysis, Numerical Solution of Differential Equations

VII. PRIZES

The paper c4 owned the prize "Best Student's Paper Prize of ICCMSE 2004 on Computational Mathematics".

VIII. RESEARCH ACTIVITIES

Research papers:

(in international refereed journals)

p1. Z. Kalogiratou, Th. Monovasilis, and T.E. Simos, Symplectic integrators for the numerical solution of the Schrödinger equation, *Journal of Computational and Applied Mathematics,* 158 (2003) 83-92. [Impact Factor: 0.567]

p2. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Numerical Solution of the two-dimensional time- independent Schrödinger Equation by Symplectic Schemes, *Applied Numerical Analysis and Computational Mathematics (ANACM)*, 1 (2004) 195-204. [abstracted in basis Zentralblatt Math]

p3. Z. Kalogiratou, Th. Monovasilis, and T.E. Simos, Numerical solution of the Two-Dimensional time-independent Schrödinger equation with exponential-fitting methods, *Journal of Mathematical Chemistry* 37(2005) 271-279. [Impact Factor: 1.495]

p4. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Exponential- fitting symplectic methods for the numerical integration of the Schrödinger equation, *Journal of Mathematical Chemistry* 37(2005) 263-270. [Impact Factor: 1.495]

p5. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Trigonometrically and Exponentially fitted Symplectic Methods of third order for the numerical integration of the Schrödinger equation, *Applied Numerical Analysis and Computational Mathematics (ANACM)*, 2 (2005) 238-244. [abstracted in basis Zentralblatt Math]

p6. Th. Monovasilis and T.E. Simos, Numerical Solution of the two-dimensional time-independent Schrödinger Equation by third order symplectic schemes, *Journal of Chemical Physics,* 313 (2005) 293-298. [Impact Factor: 2.316]

p7. Z. Kalogiratou, Th. Monovasilis, and T.E. Simos, A Symplectic Trigonometrically Fitted Modified Partitioned Runge-Kutta Method for the Numerical Integration of Orbital Problems. *Applied Numerical Analysis and Computational Mathematics (ANACM)*, 2 (2005) 359-364. [abstracted in basis Zentralblatt Math]

p8. Z. Kalogiratou, Th. Monovasilis, and T.E. Simos, Computation of the eigenvalues of the one-dimensional Schrödinger equation by symplectic methods, *International Journal of Quantum Chemistry,* 106 (2006) 795-802. [Impact Factor: 1.182]

p9. Th. Monovasilis, and T.E. Simos, Symplectic and Trigonometrically fitted Symplectic methods of second and third order, *Physics Letters A,* 354 (2006) 377-383. [Impact Factor: 1.468]

p10. Th. Monovasilis, and T.E. Simos, Symplectic methods for the numerical integration of the Schrödinger equation, *Computational Materials Science,* 38 (2007) 526-532. [Impact Factor: 1.494]

p11. Th. Monovasilis, and T.E. Simos, New Second-Order Exponentially and Trigonometrically Fitted Symplectic Integrators for the Numerical Solution of the Time-independent Schrödinger Equation, *Journal of Mathematical Chemistry,* 42 (2007) 535-545. [Impact Factor: 1.245]

p12. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Trigonometrically fitted and exponentially fitted symplectic methods for the numerical integration of the Schrödinger equation *Journal of Mathematical Chemistry,* 40 (2006) 257-267. [Impact Factor: 1.245]

p13. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Families of Third and Fourth Algebraic Order Trigonometrically Fitted Symplectic Methods for the Numerical Integration of Hamiltonian Systems, *Computer Physics Communications,* 177 (2007) 757-763. [Impact Factor: 1.644]

p14. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Computation of the eigenvalues of the Schrödinger equation by symplectic and trigonometrically fitted symplectic partitioned Runge-Kutta methods, *Physics Letters A,* 372 (2008) 569-573 [Impact Factor: 1.550]

p15. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, A family of trigonometrically fitted partitioned Runge–Kutta symplectic methods , *Applied Mathematics and Computation*, 209 (2009) 91-96. [Impact Factor: 1.124]

p16. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Computation of the eigenvalues of the Schrödinger equation by exponentially-fitted Runge–Kutta–Nyström methods, *Computer Physics Communications,*180 (2009) 167-176. [Impact Factor: 1.958]

p17. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Symplectic Partitioned Runge–Kutta methods with minimal phase-lag, *Computer Physics Communications,*181 (2009) 1251-1254. [Impact Factor: 1.958]

p18. Z. Kalogiratou, Th. Monovasilis and T.E. Simos Modified Runge-Kutta-Nystrom Methods for the Numerical Integration of Schrodinger Equation, *Computers and Mathematics with Applications.* 60 (2010) 1639-1647 [Impact Factor: 1.192]

p19. Th. Monovasilis Z. Kalogiratou and T.E. Simos, Two new phase-fitted symplectic partitioned Runge Kutta methods, *International Journal of Modern Physics C*, 22, 12, (2011) 1343-1355. [Impact Factor: 0.706]

p20. Th. Monovasilis, Symplectic Partitioned Runge-Kutta methods with the phase-lag property, *Applied Mathematics and Computation*, 218 (2012) 9075-9084. [Impact Factor: 1.029]

p21. Th. Monovasilis, Phase fitted Symplectic Partitioned Runge-Kutta methods for the numerical integration of the Schrodinger equation, *Journal of Mathematical Chemistry,* 50 (2012) 1736–1746*,* [Impact Factor: 1.259]

p22. Th. Monovasilis Z. Kalogiratou and T.E. Simos, Exponentially Fitted Symplectic Runge-Kutta-Nystrom methods, Applied Mathematics & Information Sciences, AMIS **7**, (2013) 81-85,*,* [Impact Factor: 0.508]

p23. Z. Kalogiratou, Th. Monovasilis, G. Psihoyios, T.E. Simos, Runge–Kutta type methods with special properties for the numerical integration of ordinary differential equations, Physics Reports, In Press, (2013) , [Impact Factor: 22.929]

p24. Z. Kalogiratou, Th. Monovasilis, Diagonally Implicit Symplectic Runge-Kutta methods with special properties, Applied Mathematics & Information Sciences, AMIS Accepted, [Impact Factor: 0.508]

p25. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, A fourth order modified trigonometrically fitted symplectic Runge–Kutta–Nyström method, Computer Physics Communications, 185 (2014) 3151-3155, [Impact Factor: 2.407]

p26. Th. Monovasilis Z. Kalogiratou and T.E. Simos, Construction of exponentially fitted symplectic Runge-Kutta-Nystrom methods from Partitioned Runge-Kutta methods, Applied Mathematics & Information Sciences, AMIS**,** 9, No 4, (2015) 1923-1930, [Impact Factor: 1.232]

p27. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Symplectic Runge-Kutta-Nystrom Methods with phase-lag order 8 and infinity, Applied Mathematics & Information Sciences, AMIS**,** 9, No 3, (2015) 1105-1112. [Impact Factor: 1.232]

p28. Th. Monovasilis Z. Kalogiratou and T.E. Simos, Construction of Exponentially Fitted Symplectic Runge–Kutta–Nyström Methods from Partitioned Runge–Kutta Methods, Mediterranean Journal of Mathematics, 13 (2015) 2271-2285. [Impact Factor: 0.656]

p29. Higinio Ramos, ·Z. Kalogiratou, · Th. Monovasilis, ·T. E. Simos, An optimized two-step hybrid block method for solving general second order initial-value problems, Numerical Algorithm, 72 (2016) 1089-1102. [Impact Factor: 1.241]

p30. Z. Kalogiratou, Th. Monovasilis, Higinio Ramos, T. E. Simos, A new approach on the construction of trigonometrically fitted two step hybrid methods, Journal of Computational and Applied Mathematics, 303 (2016) 146-155. [Impact Factor: 1.357]

p31. Th. Monovasilis, Z. Kalogiratou, Higinio Ramos, T. E. Simos, Modified two-step hybrid methods for the numerical integration of oscillatory problems, Mathematical Methods in the Applied Sciences, 40 (2017) 5286–5294. [Impact Factor: 1.017]

p32. Th. Monovasilis, ·Z. Kalogiratou, ·T. E. Simos, Trigonometrical fitting conditions for two derivative Runge-Kutta methods, Numerical Algorithm, 2018, 79(3), pp. 787-800. [Impact Factor: 1.241]

p33. Z. Kalogiratou, Th. Monovasilis, T. E. Simos, New fifth order Two-Derivative Runge-Kutta methods with constant and frequency dependent coefficients, Mathematical Methods in the Applied Sciences, 42(6), (2019), 1955-1966 [Impact Factor: 1.18].

p34. Kalogiratou, Z., Monovasilis, T., Simos, T.E., Two-derivative Runge-Kutta methods with optimal phase properties, Mathematical Methods in the Applied Sciences, 2020, 43(3), pp. 1267-1277

p35. Y. Bassiakos, Z. Kalogiratou, Th. Monovasilis, N. Tsounis, Computational method for approximating the behaviour of a triopoly: an application to the mobile telecommunications sector in Greece, Int. J. Computational Economics and Econometrics, Vol. 11, No. 1, 2021

p36. Th. Monovasilis and Z. Kalogiratou, High Order Two-Derivative Runge-Kutta Methods with Optimized Dispersion and Dissipation Error, Mathematics 2021, 9, 232.

(Proceedings of international conferences)

c1. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Assymptotically Symplectic Integrators of 3rd and 4th order for the numerical solution of the for the numerical solution of the Schrödinger equation, *Proceedings of the second MIT conference on Computational Fluid and Solid Mechanics,* 2002, Elsevier Science. Vol 2, pp. 2012-2015.

c2. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Numerical Solution of the two-dimensional time-independent Schrödinger Equation with exponential-fitting

methods, *Proceedings of the International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2003)*, pp. 262 – 267, World Scientific Kastoria 12-16/09/2003. [abstracted in basis Zentralblatt Math]

c3. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Construction of asymptotically symplectic methods for the numerical solution of the Schrödinger equation, *Proceedings of the International Conference of Computational Methods in Sciences and Engineering* (*ICCMSE 2004)*, pp.248-252, VSP. Vouliagmeni– Athens 19-23/11/2004.

c4. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Fourth order trigonometrically-fitted and exponentially-fitted symplectic methods for the numerical integration of the Schrödinger equation, *Proceedings of the International Conference of Computational Methods in Sciences and Engineering* (*ICCMSE 2004)*, pp 391-395, VSP. Vouliagmeni–Greece 19-23/11/2004.

c5. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Symplectic and Exponentially-fitted Symplectic Methods of Second and Third order, *Proceedings of International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2005)* pp. 295-297 ,WILEY-VCH. Rhodes- Greece 16-20/09/2005. [abstracted in basis Zentralblatt Math]

c6. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Symplectic and Exponentially-fitted Symplectic Methods for the Numerical Integration of Orbital Problems, *Proceedings of International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2005)* pp. 378-381,WILEY-VCH. Rhodes- Greece 16-20/09/2005. [abstracted in basis Zentralblatt Math]

c7. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Numerical solution of the two-dimensional time independent Schrödinger Equation by symplectic schemes based on Magnus Expansion, *Advances in Computational Methods in Sciences and Engineering 2005* (*ICCMSE 2005)*, pp. 270-274, VSP. Loutraki-Greece 21-26/10/2005.

c8. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Application of Symplectic Partitioned Runge-Kutta Methods to Hamiltonian Problems, *Advances in Computational Methods in Sciences and Engineering 2005* (*ICCMSE 2005)*, pp. 417- 420, VSP. Loutraki-Greece 21-26/10/2005.

c9. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Trigonometrically Fitted Symplectic Methods for the Numerical Integration of Hamiltonian Systems, *Proceedings of International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2006)* pp. 236-238,WILEY-VCH. Hersonissos-Greece 15-19/09/2006. [abstracted in basis Zentralblatt Math].

c10. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, Computation of the eigenvalues of the Schrödinger Equation by Exponentially-Fitted Runge-Kutta-Nyström Methods, *Proceedings of International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2007).* pp.372-377, American Institute of Physics Corfu-Greece 16-20/09/2007.

c11. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, A Fifth-order Symplectic Trigonometrically Fitted Partitioned Runge-Kutta Method, *Proceedings of*

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2007). pp. 313-317, American Institute of Physics Corfu-Greece 16-20/09/2007.

c12. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, An Exponentially fitted 6(4) pair of explicit Runge-Kutta-Nyström Methods*, Proceedings of the International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2007)* pp. 963 (2007) 1253

c13. Th. Monovasilis, Z. Kalogiratou and T.E. Simos, A Family of Trigonometrically-fitted Partitioned Runge-Kutta Symplectic Methods, *Proceedings of the International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2007)* pp. 963 (2007) 1253

c14. Kalogiratou S., Kalogiratou Z., Loulaki N., Melliou V., Monovasilis Th., Themelis Th., Mathematical models of competing species an analytical and numerical approach, *Proceedings of the International Conference on Applied Economics (ICOAE 2008)* pp. 449-454.

c15. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Exponentially-Fitted Runge-Kutta-Nyström Methods for the Solution of the Schrödinger Equation, pp. 1040-1044, AIP Conference Proceedings Volume 1048 *International Conference on Numerical Analysis and Applied Mathematics 2008,* Psalidi, Kos (Greece), (*ICNAAM 2008*)

c16. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, Conditions for Trigonometrically Fitted Runge-Kutta Methods, AIP Conf. Proc. 1168 (2009) 1600

c17. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, A Phase-fitted Symplectic Partitioned Runge-Kutta Methods for the Numerical Solution of the Schrödinger Equation, AIP Conf. Proc. 1168 (2009) 1595-1599.

c18. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, Symplectic Runge Kutta Nystrom methods with phase lag order six and infinity, AIP Conf. Proc. 1281 (2010) 694 - 697.

c19. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, Symplectic partitioned Runge Kutta methods with minimum phase lag – Case of 5 stages, AIP Conf. Proc. 1281 (2010) 698 - 702.

c20. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, A Diagonally Implicit Symplectic Runge-Kutta Method with Minimum Phase-lag, AIP Conf. Proc. 1389 (2011) 1977 - 1979.

c21. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, A Trigonometrically Fitted Symplectic Runge-Kutta-Nystrom Method, AIP Conf. Proc. 1389 (2011) 1980 - 1983.

c22. Z. Kalogiratou, Th. Monovasilis, and N. Tsounis, Modeling Regional Employment. An Application in High Technology Sectors in Greece, Procedia Economics and Finance, 1, 2012, Pages 213–218.

c23. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, Diagonally Implicit Symplectic Runge-Kutta Method with special properties, AIP Conf. Proc. 1479, 1377 (2012).

c24. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, Exponentially fitted Symplectic Runge-Kutta-Nystrom Method, AIP Conf. Proc. 1479, 1395 (2012).

c25. Z. Kalogiratou, Th. Monovasilis, S. Moustakli, N. Tsounis, Modeling the Mobile Telecommunications Sector in Greece, Procedia Economics and Finance, 5, 2013, Pages 377–385.

c26. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, A Trigonometrically Fitted Modified Symplectic Runge-Kutta-Nystrom Methods of Order Four, AIP Conf. Proc. 1558**,** 1176 (2013)

c27. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, Exponentially Fitted Symplectic Runge Kutta Nystrom Methods Derived by Partitioned Runge Kutta methods. ,AIP Conf. Proc. 1558**,** 1181 (2013)

c28. Z. Kalogiratou, Th. Monovasilis, and T. E. Simos, A Sixth Order Symmetric and Symplectic Diagonally Implicit Runge-Kutta Method, AIP Conf. Proc. 1618, 833 (2014)

c29. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, Construction of exponentially fitted symplectic Runge-Kutta-Nyström methods from partitioned Runge-Kutta methods, AIP Conf. Proc. 1618, 843 (2014).

c30. Z. Kalogiratou, Th. Monovasilis, Higinio Ramos and T.E. Simos, Trigonometrically Fitted Two Step Hybrid Methods for the Numerical Solution of the Schrödinger Equation, AIP Conference Proceedings 1648, 810008 (2015); doi: 10.1063/1.4913017

c31. Th. Monovasilis, Z. Kalogiratou, Higinio Ramos and T.E.Simos, A New Approach on the Construction of Trigonometrically Fitted Two Step Hybrid methods, AIP Conference Proceedings 1648, 810009 (2015); doi: 10.1063/1.4913018.

c32. Higinio Ramos, Z. Kalogiratou, Th. Monovasilis and T.E. Simos, An Optimized Two-step Hybrid Block Method for Solving General Second Order Initial-value Problems of the form y´´= f(x, y, y´), AIP Conference Proceedings 1648, 810006 (2015); doi: 10.1063/1.4913015.

c33. Higinio Ramos, Z. Kalogiratou, Th. Monovasilis and T.E. Simos, A trigonometrically fitted optimized two-step hybrid block method for solving initialvalue problems of the form y″= f (x, y, y′) with oscillatory solutions, AIP Conference Proceedings 1648, 810007 (2015); doi: 10.1063/1.4913016.

c34. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, Two Step Hybrid methods of 7th and 8th order for the numerical solution of the numerical integration of second order IVPs, AIP Conf. Proc. 1738, 480132-1–480132-6; doi: 10.1063/1.4952368

c35. Th. Monovasilis, Z. Kalogiratou, and T. E. Simos, Trigonometrically Fitted Two Step Hybrid methods for the numerical solution of the numerical integration of second order IVPs, AIP Conf. Proc. 1738, 480133-1–480133-5; doi: 10.1063/1.4952369.

c36. M. Chatzopoulou, A. Vlachvei, Th. Monovasilis, Employee's Motivation and Satisfaction in Light of Economic Recession: Evidence of Grevena Prefecture Greece, Procedia Economics and Finance ICOAE 2015, 24, (2015), 136–145.

c37. L. Petrakis, Z. Kalogiratou, Th. Monovasilis, T.E.Simos, "Numerical Integration of Chaplain and Stuart Model", AIP Conf. Proc. 1738, 480131-1–480131-3; doi: 10.1063/1.4952367

c38. A. Michalas, Z. Kalogiratou, Th. Monovasilis, T.E.Simos, "Numerical Integration of Maxwell equations with symplectic integrators", AIP Conf. Proc. 1738, 480130-1–480130-4; doi: 10.1063/1.4952366

c39. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, "A class of explicit two derivative Runge Kutta methods", ICNAAM 19-25 September 2016 - Rhodes Greece, 2016

c40. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, "Trigonometrically Fitted Two Derivative Runge – Kutta Methods.", ICCMSE 17-20 March 2016 - Athens Greece, 2016

c41. Th. Monovasilis, Z. Kalogiratou and T.E.Simos, "Modified Two Step Hybrid Methods for Oscillatory Problems.", ICCMSE 17-20 March 2016 - Athens Greece, 2016

c42. Z. Kalogiratou, Th. Monovasilis, T.E. Simos, Construction of Two Derivative Runge Kutta Methods of Order Five, AIP Conf. Proc. 1863, 560092-1–560092-6; doi: 10.1063/1.4992775.

c43. Th. Monovasilis Z. Kalogiratou and T.E. Simos, "Trigonometrically Fitted Two Derivative Runge Kutta Methods with Three Stages", AIP Conf. Proc. 1863, 560093-1–560093-4; doi: 10.1063/1.4992776

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c45. Monovasilis Th., Kalogiratou, Z., Simos, T.E., "Order conditions for two derivative Runge Kutta methods up to order six, AIP Conference Proceedings 1906, 200020 (2017)

c46. Z. Kalogiratou, Th. Monovasilis and T.E. Simos, Two Derivative Runge-Kutta methods with minimum phase-lag and amplification error, ICNAAM 25-30 September 2017, Thessaloniki Greece, AIP Conference Proceedings 1978,470108

c47. Th. Monovasilis, Z. Kalogiratou and T.E.Simos,Phase Fitted and Amplification Fitted Two Derivative Runge-Kutta methods, ICNAAM 25-30 September 2017, Thessaloniki Greece, 2017, 2018, AIP Conference Proceedings 1978,470109

c48. A. Vlachvei, A. Kyparisis, Th. Monovasilis, Food related behavior of travelers: the case of Thessaloniki, TOURMAN 2018, 25-28 October 2018, Rhodes Greece.

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c50. Kalogiratou, Z., Monovasilis, Th., Simos, T.E. Trigonometrically fitted two derivative Runge Kutta methods for the Schrödinger equation, 2018, AIP Conference Proceedings 2040,150020

c51. Th. Monovasilis, Z. Kalogiratou, N. Tsounis, G. Bertsatos, S. Moustakli, Use of Differential Equations in Firms Behavior in an Oligopoly Market, International Conference on Applied Economics ICOAE 2019: Advances in Cross-Section Data Methods in Applied Economic Research pp 627-634

c52. Z. Kalogiratou, Th. Monovasilis, N. Tsounis, G. Bertsatos, S. Moustakli, Mathematical Modeling of the Brewery Sector in Greece with the Use of Differential Equations, International Conference on Applied Economics ICOAE 2019: Advances in Cross-Section Data Methods in Applied Economic Research pp 651-659

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c55. Gerassimos Bertsatos, Soultana Moustakli, Zacharoula Kalogiratou, Theodoros Monovasilis, An application of Differential Equations on Anthropogenic Climate Change (2021) Springer Proceedings in Business and Economics, pp. 527-534.

Chapters in research books

1. Z. Kalogiratou, Th. Monovasilis and T. E. Simos, Symplectic Partitioned Runge-Kutta Methods for the Numerical Integration of Periodic and Oscillatory

Problems, (2011), Recent Advances in Computational and Applied Mathematics, Pages 169-208, Springer, ISBN 978-90-481-9980-8

IX.MONOGRAPHS

1. Καλογηράτου Ζ., Μονοβασίλης Θ., Σίμος Θ., ***Αριθμητική Επίλυση Διαφορικών Εξισώσεων*** ISBN 960-630-720-4, Καστοριά (2005).

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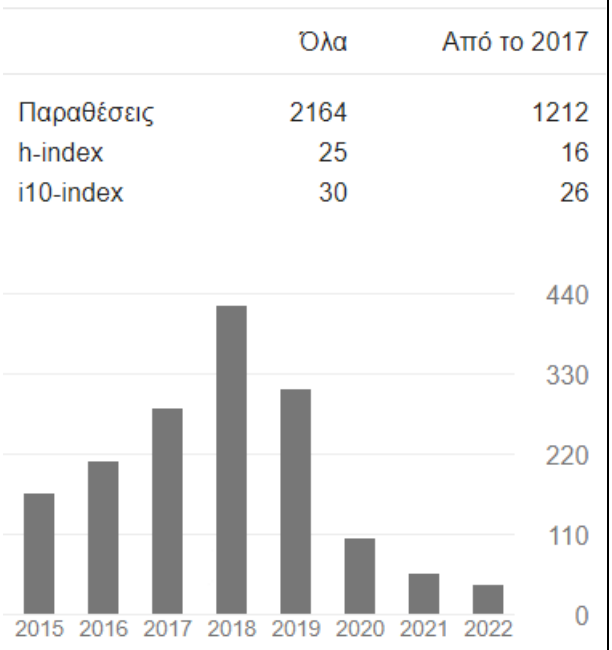
Metrics overview 81 Documents by author 1919 Citations by **449** documents 23 *h*-index: View *h*-graph	

X.BOOKS

Ζ. Καλογηράτου, Θ. Μονοβασίλης, Οικονομικά Μαθηματικά, ISBN: 978-960-93-3174-6.

Γ. ΒΑΣΙΛΕΙΑΔΗΣ, Ζ. ΚΑΛΟΓΗΡΑΤΟΥ, Θ. ΜΟΝΟΒΑΣΙΛΗΣ, ΕΙΣΑΓΩΓΗ ΣΤΗ ΣΤΑΤΙΣΤΙΚΗ, ISBN: 978-960-93-4154-7

XI. MEMBERSHIP OF ACADEMIC ORGANIZATIONS

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