

## **Personal Data :**

**Full name:** Papadopoulos Perikles  
**Born:** July 14, 1970/ Athens Greece  
**Profession:** Mathematics, MSc, PhD  
**Current Employment:** Associate Prof , Dept. of Electrical & Electronics Eng.,  
University of West Attica, University Campus 2, Egaleo/Gr  
**Marital Status:** Married- 1 child  
**Home address:** 72, Xenofondos str, Koridallou-Piraeus, GR-18120, Greece  
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## **Studies :**

2003-2007 Post Doctoral Studies, School of Applied Mathematics and Physics, National Technical University of Athens (NTUA), Greece.

1998-2003 PhD in Applied Mathematics, School of Applied Mathematics and Physics, National Technical University of Athens (NTUA), Greece.

2002-2003 MSc, in Applied Mathematics, School of Applied Mathematics and Physics, National Technical University of Athens (NTUA), Greece.

1989-1994 Diploma in Mathematics, Department of Mathematics, University of Athens, Greece.

## **Languages :**

- Greek (mother tongue)
- English (Cambridge Certificate of Lower, 1985)

## **Scholarships:**

- Grand for doctoral studies under supervision of Prof Stavrakakis Nikos.

## **Research Interests:**

- Differential Equations and Dynamical Systems.
- Partial Differential Equations.
- Elliptic, Parabolic and Hyperbolic Problems.

- Non Linear Differential Equations and Quasilinear Differential Equations with Applications in Physics (for example Kirchoff's Equations).

### **Professional activities:**

- [03/2018-...] Associate Prof, Department of Electrical and Electronics Engineering, School of Mechanics, University of West Attica.
- [03/2015-03/2018] Associate Prof, Department of Electrical & Electronics Engineering, ATEI of Piraeus, Greece.
- [06/2010-03/2015] Assistant Prof, Department of Electronics Engineering, TEI of Piraeus, Greece.
- [12/2007-2/2010] Lecturer, NTUA, School of Applied Mathematics and Physics.
- [10/2007-7/2010] Research Fellow, General Department of Mathematics, TEI of Piraeus, Greece.
- [10/2002-7/2007] Lab assistant, General Department of Mathematics, TEI of Piraeus, Greece.
- [9/2003-7/2007] Post Doctoral Researcher, NTUA, School of Applied Mathematics and Physics.

### **Teaching Experience:**

- Mathematics I, Department of Mechanical Engineering.(ATEI of Piraeus)
- Mathematics I, Department of Electrical Engineering.(ATEI of Piraeus)
- Mathematics I, Department of Electronics Engineering.(ATEI of Piraeus)
- Information Technology, Department of Accounting and Finance.(ATEI of Piraeus)
- Programming E/C, Department of Accounting and Finance (ATEI of Piraeus)
- Mathematics II, Department of Mechanical Engineering.(ATEI of Piraeus)
- Mathematics II, Department of Electrical Engineering.(ATEI of Piraeus)
- Mathematics II, Department of Automation Engineering.(ATEI of Piraeus)
- Mathematics II, Department of Electronics Engineering.(ATEI of Piraeus)
- Applied Mathematics, Department of Electronics Engineering.(ATEI of Piraeus)
- Applied Mathematics, Department of Computer Systems Engineering. (ATEI of Piraeus)
- Ordinary Differential Equations, (NTUA)
- Non Linear Partial Differential Equations and Complex Analysis, (NTUA)
- Dynamical Systems, (NTUA)
- Differential Equations, (NTUA)
- Mathematics IIB, (NTUA)
- Partial Differential Equations, (NTUA)
- Dynamical Systems and Chaos Theory, (NTUA-Postgraduate lesson)
- Non Linear Partial Differential Equations, (NTUA-Postgraduate lesson)
- Special Issues for Partial Differential Equations, (NTUA)

### **Member of scientific organization committees:**

- Member of the Greek Mathematical Society

### **Board Work In TEI Piraeus (some of it):**

- Deputy Director for the Laboratory: *Applied Mathematics and Artificial Intelligence*, for the academic years 2016-2017 and 2017-2018.
- Deputy Director of the Division B: << Communications and Networks >>, Department of Electronics Engineering, for the academic years 2015-2016, 2016-2017, 2017-2018.
- Member of the Scientific Assessment Panel for laboratory associates for the academic years 2011-2012 and 2012-2013.
- Deputy Head of the Mathematics Department for the academic year 2012-2013.
- Chairman Committee of Characterization for waste material, for the year 2010.

### **Funded Research Projects:**

- Post Doctoral Research in NTUA, School of Applied Mathematics and Physics (3/2004-10/2006).
- Research Project: THALIS, NTUA, School of Applied Mathematics and Physics (9/2002-9/2003)
- Research Project: **PENED 99**, **NAMED 99- 527**, NTUA, School of Applied Mathematics and Physics, (1/2000-6/2001).

### **Writing Activity:**

- Mathematics II
- Mathematics I
- Applied Mathematics
- Complex Analysis
- Differential Equations

### **Publications:**

- **Papadopoulos Perikles, Stavrakakis Nikos** , << **Global Existence and Blow-Up Results for an Equation of Kirchhoff Type on  $\mathfrak{R}^N$**  >>, Topological Methods in Nonlinear Analysis, 2001, Vol 17, pp 91-109.
- **Papadopoulos Perikles, Stavrakakis Nikos**, << **Global Existence, Blow up and**

**Compact Invariant Sets for Quasilinear Nonlocal Kirchhoff Strings on  $\mathbb{R}^N$**  >>, Technical Report, Number 12, Special Volume, pp 1-11, 2004.

- **Papadopoulos Perikles, Stavrakakis Nikos, <<Central Manifold Theory for the Generalized Equation of Kirchhoff Strings on  $\mathbb{R}^N$**  >>, Nonlinear Analysis TMA, 2005, Vol 61, pp 1343-1362.
- **Papadopoulos Perikles, Stavrakakis Nikos, <<Strong global attractor for a quasilinear nonlocal wave equation on  $\mathbb{R}^N$**  >>, Electronically Journal of Differential Equations (EJDE), 2006, Vol 77, pp 1-10.
- **Papadopoulos Perikles, Stavrakakis Nikos, <<Compact Invariant Sets for Some Quasilinear Nonlocal Kirchhoff Strings on  $\mathbb{R}^N$**  >>, Applicable Analysis, 2008, Vol 87, pp 133-148.
- **Papadopoulos Perikles, Stavrakakis Nikos, <<Global Existence for a Wave Equation on  $\mathbb{R}^N$**  >>, Discrete and Continuous Dynamical Systems, Series S, 2008, Vol 1, pp 139-149.
- **Papadopoulos Perikles, Karamolengos Michael, Pappas Alexandros, <<Global Existence and Energy Decay for Mildly Degenerate Kirchhoff's Equations on  $\mathbb{R}^N$**  >>, Journal of Interdisciplinary Mathematics, (2009), Vol.12, No. 6, pp. 767-783.
- **Papadopoulos Perikles, << Blow-up for a non-Degenerate non-Local Quasilinear Wave Equation on  $\mathbb{R}^N$**  >>, Applicable Analysis, 2012, Vol 91, pp 419-433.
- **Papadopoulos Perikles, Matiadou Niki-Lina, Fatouros Stavros, <<Existence and Uniqueness of Solutions for a Discrete Infinite ODE's System>>, Advancements and Developments in Applied Mathematics, 2012, vol 3, pp 1-10.**
- **Fatouros Stavros, Karcianas Nicos, Christou Dimitrios, Papadopoulos Perikles, << Approximate Greatest Common Divisor of Many Polynomials and Pseudo-Spectrum>>, System, Structure and Control, 2013, Vol 5, part 1, pp 623-628.**
- **Papadopoulos Perikles, Matiadou Niki-Lina, Fatouros Stavros, <<Global Existence and Blow-up Results for an Hyperbolic Problem on  $\mathbb{R}^N$**  >>, Applicable Analysis, 2014, Vol. 93, No. 3, pp 475-489.
- **Matiadou Niki-Lina, Papadopoulos Perikles, <<Quaternionic Quadratic Formulas>>, Journal of Multidisciplinary Engineering Science and Technology, 2015, Vol. 2, Issue 3, pp 334-338.**

- Pappas Alexandros, **Papadopoulos Perikles**, Theofili Eleni, << **The optimal lower bound for the polynomial norm which is a product of a linear and continue form in a Hilbert space**>>, Nonlinear Functional Analysis and Applications, 2015, Vol. 20, No.1, pp 79-95.
- **Papadopoulos Perikles**, Fatouros Stavros, Michael Karamolengos <<**Matlab based observations on the solutions of Discrete Infinite System**>>, Journal of Applied Research Review- A' Sciences and Technology, 2015, Volume xv, No. 1, pp 1-7.
- Vassiliadis Savvas, Rigaki Athina, **Papadopoulos Perikles**, Mitilineos Stelios and Primentas Anthony, << **Bitcoins: An Opportunity or a Treat for the Textile Products Trade?** >>, International Federation of Knitting Technologists, pp 271-277, vol 47, 2014.
- **Papadopoulos Perikles**, Matiadou Niki Lina and Pappas Alexandros, <<**Global Existence, Stability Results and Compact Invariant Sets for a Quasilinear Nonlocal Wave Equation on  $\mathfrak{R}^N$** >>, Int. J. Nonlinear Anal. Appl. 6, (2015) No 1, 85-95.
- Matiadou Niki Lina and **Papadopoulos Perikles**, <<**Vector Representation of Quaternions. Solutions of Quaternionic Quadratic Equations**>>, Journal of Pure and Applied Mathematics: Advances and Applications, Vol 13, No 1, (2015), 15-26.
- **Papadopoulos Perikles**, Fatouros Stavros and Michael Karamolengos, <<**Existence of Solutions and Matlab Remarks-Graphics for a Discrete Infinite Ordinary Differential Equation's System**>>, ARPN, Journal of Science and Technology, Vol 5, No 3, (2015), 175-178.
- Pappas Alexandros, **Papadopoulos Perikles** and Lina Athanasopoulou, <<**Polarization constant  $K(n,X)=1$  for Entire Functions of Exponential Type**>>, Int. J. Nonlinear Anal. Appl. 6, (2015), No 235-245.
- **Papadopoulos Perikles** and Pappas Alexandros, << **Energy Estimates and Local Existence Results for a Mildly Degenerate Wave Equation with Damping in Unbounded Domains**>>, Nonlinear Functional Analysis and Applications, (2016), Vol 21, No 1, pp 171-182.
- **Papadopoulos Perikles**, <<**Local Existence and Stability Results for a Wave Equation with Damping on all  $R^N$** >>, Journal of Multidisciplinary Engineering Science and Technology, (2016), Vol 3, issue 2, pp 4008-4014.
- Lalou Panagiota, Chalikias Miltiadis, Skordoulis Michalis, **Papadopoulos Perikles** and Fatouros Stavros, << **A Probabilistic Evaluation of Sales Expansion**>>, 5th

- International Symposium and 27<sup>th</sup> National Conference Research, Piraeus University of Applied Sciences, 2016, Conference Proceedings 109-112.
- S. Vassiliadis, E. Kyriakis-Mpitzaros, A. Cay, M. Rangoussi, A. Zachariadou and **P. Papadopoulos**, <<**Multiaxial Out-of-Plane Tensile Test of Textile Fabrics**>>, International Federation of Knitting Technologists, pp 218-223, vol 49, 2016.
  - S. Vassiliadis, **P. Papadopoulos**, M. Rangoussi, T. Konieczny and J. Gralewski, <<**Bitcoin Value Analysis Based on Cross-Correlations**>>, Journal of Internet Banking and Commerce, Jan 2017, vol 22, no s7, pp 1-12.
  - **Papadopoulos Perikles** and Matiadou Niki Lina, <<**Estimates for a Hyperbolic Equation with no Dissipation on  $R^N$** >>, Journal of Multidisciplinary Engineering Science and Technology, (2017), Vol 4, issue 6, pp 7499-7504.
  - S. Fatouros, E. Kossieri, M. Chalikias and **P. Papadopoulos**, <<**A Statistical Investigation of Earthquakes in Greece and the Effect of the Lunar Triggering**>>, Proceedings of the 8<sup>th</sup> International and Communication Technologies in Agriculture, Food and Environment (HAICTA 2017), pp 268-271.
  - M. Chalikias, P. Lalou, M. Skordoulis, **P.Papadopoulos** and S.Fatouros, <<**Bank Oligopoly Competition Analysis Using a Differential Equations Model**>>, accepted for publication in International Journal of Operational Research, (2017).
  - **Perikles Papadopoulos** and Niki Lina Matiadou, <<**Global Attractor for A Nonlocal Hyperbolic Problem on  $R^N$** >>, International Journal of Nonlinear Analysis and Applications, 8, (2017), No 2, pp 150-168.
  - **Perikles Papadopoulos**, Niki Lina Matiadou and Stavros Fatouros, <<**The Stability of the Solution For a Hyperbolic Problem on  $R^N$** >>, Nonlinear Functional Analysis and Applications, vol 23, no.1, (2018), pp.129-140.
  - Stavros Fatouros, **Perikles Papadopoulos**, Niki Lina Matiadou and Savvas Vassiliadis, <<**A Mutual Dept Cut Algorithm for A Group of Countries**>>, Materials Science and Engineering, **459** (2019) 012004, IOP Publishing, doi:10.1088/1757-899X/459/1/012004.
  - Dimitrios Tsiko, Christina Papadimitriou, **Perikles Papadopoulos** and Constantinos Psomopoulos, <<**Study and Analysis on Evs Penetration Scenarios Based in Prognostic Tools**>>, accepted for publications in Special Issue of the American Institute of Physics, (2019).
  - Khaled Zennir, Tosiya Miyasita and **Perikles Papadopoulos**, <<**Local Existence and Global Non-existence of solution for Love-Equation with infinite memory**>>, preprint, (2019).

## **Reviewer for the journals:**

- International Journal of Physical Sciences.
- Electronically Journal of Differential Equations.
- International Journal of Nonlinear Analysis and Applications
- Applied Physics
- Discrete Dynamics in Nature and Society
- Symmetry
- Mathematics

## **EDITORIAL BOARD MEMBER**

- International Journal of Theoretical and Applied Mathematics

## **Announcements Of Conferences:**

- *Global Existence, Blow-Up Results and Compact Invariant Sets for Some Quasilinear Nonlocal Kirchhoff Strings on  $\mathbb{R}^N$*  », International Conference in Mathematical Analysis and Applications, in Memorial of C. Papakyriakopoulos, 24-27 August 2000, NTUA University Press (2002), pg. 276-286.
- « *Compact Invariant Sets and Blow-Up Results for an Equation of Kirchhoff Type on  $\mathbb{R}^N$*  », 8o Conference in Mathematical Analysis, Xanthi, 29-30/9 2000, pp. 36-42.
- « *Global Existence, Blow up, Compact Invariant Sets and Stability Results for Quasilinear Kirchhoff Equation on  $\mathbb{R}^N$*  », International Conference on Differential, Difference Equations and their Applications, July 1-5, 2002, Patras, Greece.
- « *Kirchhoff's Equation and Central Manifold Theory* », 9o Conference in Mathematical Analysis, Hania-Crete, 5-7/9 2002.
- « *Global Existence, Blow up and Asymptotic Results for Kirchhoff's String on  $\mathbb{R}^N$*  », International Conference on Differential Equations, July 22-26, Hasselt-Belgium, 2003.
- « *Global Existence, Blow Up and Asymptotic Results for Some Mildly Degenerate Equations on  $\mathbb{R}^N$*  », 10o Conference in Mathematical Analysis, Athens, 30/9-2/10 2004.

- «*Global Existence for Mildly Kirchhoff's Equations on  $\mathbb{R}^N$*  », Sixth International Conference on Dynamical Systems, Differential Equations and Applications, Poitiers, France, 25-28 June, 2006.
  - «**Blow up for a Non- Degenerate Non-Local Quasilinear Wave Equation on  $\mathbb{R}^N$**  », 12o Conference in Mathematical Analysis, Athens, Department of Mathematics, University of Athens, 15-17/5 2008.
  - «**A Probabilistic Evaluation of sales expansion**», 5<sup>th</sup> International Symposium and 27<sup>th</sup> National Conference on Operational Research, Piraeus University of Applied Sciences, Egaleo-Athens on June 9-11, 2016, Conference Proceedings 109-112.
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### **Participation in Conferences**

- “**6o Conference in Mathematical Analysis**”, 5-6/9, 1997, Samos.
  - “**Dynamics of Patterns**”, 19-25/6, 1999, Crete.
  - **1<sup>st</sup> Interdisciplinary Symposium on Nonlinear Problems**, 21/1-22/1 2000, Athens, NTUA.
  - “**International Conference on Differential Equations**”, July 22-26, Hasselt-Belgium, 2003.
  - **5<sup>th</sup> Symposium on System Structure and Control**, Grenoble, France, February, 4-6, 2013.
  - **8<sup>th</sup> International Conference on Information and Communication Technologies in Agriculture, Food and Environment (HAICTA 2017)**, September 21-24, 2017, Chania, Crete, Greece.
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