

Short Curriculum Vitae – Elena P. Papadopoulou

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Education:

- 1986 :** **PhD Department of Mathematics and Computer Science, Clarkson University**
Potsdam, NY USA
- 1983 :** **MSc Department of Mathematics and Computer Science, Clarkson University**
Potsdam, NY USA
- 1981 :** **BS Department of Mathematics, University of Crete,**
Heraclion, GREECE

Academics :

- 11/2016-2/2020 :** **President of Hellenic NARIC (DOATAP)**
- 2007-present :** **Professor, Technical University of Crete, School of Mineral Resources Engineering**
(from 2013), Department of Sciences (2007-2013)
- 1996-2007 :** **Associate Professor, Technical University of Crete, Department of Sciences**
- 1991-1996 :** **Assistant Professor, Technical University of Crete, Department of Sciences**
- 1987-1991 :** **Assistant Professor, Clarkson University, Department of Mathematics and**
Computer Science, Potsdam NY, USA.
- 1986-1987 :** **Instructor, Clarkson University, Department of Mathematics and Computer**
Science, Potsdam NY, USA.
- 1981-1986 :** **Teaching Assistant, Clarkson University, Department of Mathematics and**
Computer Science, Potsdam NY, USA.

University Service :

- 2013 - 11/2017 :** **Member of Deanship Committee, School of Mineral Resources Engineering**
Technical University of Crete
- 2009 - 5/2013 :** **Chairperson, Department of Sciences Technical University of Crete,**
Member of University Senate, Technical University of Crete
- 1999 – 2003 :** **Chairperson, Department of Sciences Technical University of Crete,**
Member of University Senate, Technical University of Crete
- 1999 – 2007 :** **Director of Graduate Studies, Department of Sciences Technical University of Crete**
- 1997 - 1999 :** **Deputy Chairperson, Department of Sciences Technical University of Crete**

Courses taught :

- Introduction to Computer Programming, Scientific Programming, Discrete Mathematics, Data Structures, Calculus I, Calculus II, Parallel Processing, Introduction to Computer Algorithms.

Research Interests :

- Numerical Algorithms and their mapping on Parallel Architectures
- Scientific Computing, Parallel Computing
- Soliton Cellular Automata
- Parallel Algorithms and Processes
- Stochastic Optimization Algorithms

Selected Publications :

1. “*Grid Computing for the Bi-CGSTAB applied to the solution of the Modified Helmholtz Equations*”, E.N. Mathioudakis, E.P. Papadopoulou, International J of Applied Mathematics and Computer Science, **4**(3), (179-184), 2007.
2. “*Iterative Solutions of Elliptic Collocation Systems on a Cognitive Parallel Computer*”, E.N. Mathioudakis, E.P. Papadopoulou, Y.G. Saridakis, Computers & Mathematics with applications, **48** (951-970), 2004.
3. “*BiCGSTAB for Collocation Equations on Distributed Memory Parallel Architectures*”, E. Mathioudakis, E. P. Papadopoulou and Y. G. Saridakis, Numerical Mathematics and Advanced Applications-ENUMATH 2001, Springer Verlag, **297**, pp 957-966, 2003.
4. “*Direct and Iterative Solution of the Generalized Dirichlet-Neumann Map for Linear Elliptic PDEs on Square Domains*”, A. Sifalakis, S.R. Fulton, E. P. Papadopoulou and Y. G. Saridakis, J Computational & Applied Mathematics, **227**, pp 171-184, 2009.
5. “*Efficient Numerical Solution of the Generalized Dirichlet-Neumann Map for Linear Elliptic PDEs in Regular Polygon Domains*”, Y. G. Saridakis, A. G. Sifalakis and E. P. Papadopoulou, J Computational & Applied Mathematics, **236**, pp 2515-2528, 2012.
6. “*Parallel Solution of the Generalized Dirichlet-Neumann Map for Elliptic PDEs on Regular Polygon Domains*”, A. Sifalakis, E. P. Papadopoulou and Y. G. Saridakis, Proceedings ECCOMAS’08, Venice, Italy, 2008
7. “*Interaction of Simple Particles in Soliton Cellular Automata*”, A.S. Fokas, E.P. Papadopoulou, Y.G. Saridakis and M.J. Ablowitz, Studies in Applied Mathematics **81**, pp 153-180, 1989.
8. “*Coherent Structures in Cellular Automata*”, A.S. Fokas, E.P. Papadopoulou, Y.G. Saridakis, Physics Letters A **147** (7), pp 369-379, 1990.
9. “*Recent Developments in Soliton Cellular Automata*”, E.P. Papadopoulou, Nonlinear Evolution Equations and Dynamical Systems, eds S. Carrillo, O. Ragnisco, Springer-Verlag, pp 186-189, 1990.
10. “*Least Squares Iterative Solution on a Fixed Size VLSI Architecture*”, E.P. Papadopoulou, T.S. Papatheodorou, Springer Verlag Lecture Notes in Computer Science, **297**, pp 914-925, 1987.