

Sifalakis G. Anastasis (Curriculum Vitae)

CONTACT INFORMATION	<p>Applied Mathematics and Computers Laboratory Dep. of Production Engineering and Management Technical University of Crete Office 145.B.099 Kounoupidiana, Chania 73100 Crecece</p> <p><i>Tel.:</i> +30 2821037741 <i>Fax:</i> +30 2821037842 <i>E-mail:</i> sifalak@gmail.com</p>
PERSONAL INFORMATION	<p>Home Address: Kirtomados, Chania, GR 73005 Home Tel.: +30 2821077841 Date of Birth: November 24 1976 Citizenship: Hellenic Military obligations: Completed Marital Status: single</p>
RESEARCH INTERESTS	<p>Numerical Analysis Numerical Solution of PDEs Iterative Methods Fokas Transform Method Scientific Computing</p>
EDUCATION	<p>Ph.D., "Applied Sciences and Technology" with a specialization in "Applied and Computational Mathematics." Technical University of Crete, December 2007. Thesis Topic: <i>Iterative Approximations and Parallel Grid/Cluster Computations for the Novel Solution of Elliptic Partial Differential Equations.</i> pdf (in Greek)</p> <p>M.S., "Applied Sciences and Technology" with a specialization in "Applied and Computational Mathematics." Technical University of Crete, December 2002. Thesis Topic: <i>Iterative methods for the solution of linear equations arising from finite elements.</i></p> <p>B.S., "Mathematics" University of Crete September 1999</p>
JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. M. Asvestas, A.G. Sifalakis, E.P. Papadopoulou and Y.G. Saridakis, <i>Fokas method for a multi-domain linear reaction-diffusion equation with discontinuous diffusivity</i>, Journal of Physics: Conference Series, 490 012143 doi:10.1088/1742-6596/490/1/0121432. Y.G. Saridakis, A.G. Sifalakis and E.P. Papadopoulou, <i>Efficient Numerical Solution of the Generalized Dirichlet-Neumann Map for Linear Elliptic PDEs in Regular Polygon Domains</i>, Journal of Computational & Applied Mathematics, 236 (9), pp 25152528 , 2012, doi:10.1016/j.cam.2011.12.0113. A.G. Sifalakis, S.R. Fulton, E.P. Papadopoulou and Y.G. Saridakis <i>Direct and Iterative Solution of the Generalized Dirichlet-Neumann Map for Linear Elliptic PDEs on Square Domains</i>, Journal of Computational & Applied Mathematics, 227, pp 171-184, 2009 doi:10.1016/j.cam.2008.07.0254. A.G. Sifalakis, A.S. Fokas, S.R. Fulton, and Y.G.Saridakis, <i>The Generalized Dirichlet-Neumann Map for Linear Elliptic PDEs and its Numerical Implementation</i>, Journal of Computational & Applied Mathematics, 219 (1), pp 9-34, 2008 doi:10.1016/j.cam.2007.07.012

5. **A.G. Sifalakis**, E.P. Papadopoulou and Y.G. Saridakis, *Numerical Study of Iterative Methods for the Solution of the Dirichlet-Neumann Map for Elliptic PDEs on Regular Polygon Domains*, International Journal of Applied Mathematics and Computer Sciences, 4 (3), pp 173-178, 2007 [pdf](#)
- PAPERS IN PREPARATION
1. D. Mantzavinos, M.G. Papadomanolaki , Y.G. Saridakis and **A.G. Sifalakis**, **A.G. Sifalakis**, *A novel transform approach for a brain tumor invasion model with heterogeneous diffusion in 1+1 dimensions*, submitted
- CONFERENCE PROCEEDINGS
1. **A.G. Sifalakis**, S.R. Fulton, E.P. Papadopoulou and Y.G. Saridakis *On the Iterative Analysis of the Dirichlet-Neumann Map for Linear Elliptic PDEs*, Proceedings NUMAN07, pp 130-134 , Kalamata 2007
- CONFERENCES (PRESENTATION)
1. *Fifth Conference in Numerical Analysis (NumAn 2012) Recent Approaches to Numerical Analysis: Theory Methods and Applications*, Chania, Greece 2012
2. *Conference in Numerical Analysis (NumAn 2010) Recent Approaches to Numerical Analysis: Theory Methods and Applications*, Chania, Greece 2010
3. *The 9th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2009)*, Athens, Greece 2009
4. *The 8th World Congress on Computational Mechanics (WCCM8) and 5th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008)*, Venice, Italy 2008
5. *The 8th Hellenic European Research on Computer Mathematics & its Applications Conference (HERCMA 2007)*, Athens, Greece 2007
6. *Fourth International Conference on Modeling and Simulation*, Prague, Czech Republic 2007
7. *Conference in Numerical Analysis (NumAn 2007) Recent Approaches to Numerical Analysis: Theory Methods and Applications*, Kalamata, Greece 2007
8. *International Conference on Modern Mathematical Methods in Science and Technology*, Paros, Greece 2006
9. *International Conference on Nonlinear Waves, Integrable Systems and Their Applications*, Colorado Springs, USA, 2005
- SEMINARS - CONFERENCES ATTENTANCE
1. *Data Mining with Emphasis on Medical Applications*, Chania, Greece 2004
2. *Mathematics Summer School 2003*, Herakleion, Greece 2003
3. *The 9th Greek National Conference of Mathematical Analysis*, Chania, Greece 2002
- PROFESSIONAL EXPERIENCE
- 2014-now: Laboratory Teaching Staff at the Applied Mathematics and Computers Laboratory (AMCL) of the Department of Sciences of the Technical University of Crete. Supported courses: *Numerical Analysis, Numerical Linear Algebra, Numerical Methods in Environmental Engineering*
- 2002-2013: Laboratory Assistant / IDAX at the Applied Mathematics and Computers Laboratory (AMCL) of the Department of Sciences of the Technical University of Crete. Supported courses: *Introduction to Computer Programming, Discrete Mathematics, Numerical Analysis, Linear Algebra, Numerical Linear Algebra*
- 2000-2001: Researcher at *PENED 99ED566 - High performance computations for scientific applications and multimedia applications.*

GRANTS 2003-2005: *EPEAEK II Irakleitos - Research Scholarships* concerning PHD preparation.

SOFTWARE SKILLS Math/Programming:

- Matlab, Fortran, C, Mathematica, L^AT_EX

Operating Systems:

- Linux, Unix, Microsoft Windows

LANGUAGES Greek (native language)
English (*First Certificate in English* - University of Cambridge)

OTHER 2000-2002 Postgraduate students representative to the general assembly of the department of sciences at Technical University of Crete