Dr Paraskevas Stratis

Curriculum Vitae

Technical University of Crete
School of Mineral Resources Engineering
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Education

2009-2017   **PhD in Computational and Applied Mathematics**

Technical University of Crete, School of Production Engineering Management, Chania, Greece

Applied Mathematics and Computers Laboratory

PhD Dissertation: *High Order approximations and stochastic optimization for models of saltwater intrusion in coastal aquifers*

○ Supervisor: Professor Yiannis Saridakis

2003-2005   **MSc in Pure Mathematics**

University of Crete, Department of Mathematics, Heraklion, Greece

○ Thesis: *Minimization of the Euclidean norm of the SOR and MSOR Operators* (in Greek)

○ Supervisor: Professor Apostolos Hadjidimos

1997-2002   **BSc in Mathematics**

Aristotle University of Thessaloniki, Department of Mathematics, Thessaloniki, Greece

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Languages

○ Self-assessment European level CEFR (C2 maximum evaluation)

		Comprehension		**Speaking**		**Writing**
		Listening	Reading	Interaction	Production	
Greek	Mother Tongue	*C2*	*C2*	*C2*	*C2*	*C2*
English	Advanced	*C1*	*C1*	*C1*	*C1*	*C1*

○ Certificate: First Certificate in English (FCE), University of Cambridge

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Computer Skills

Languages   Matlab, Fortran, C, LaTeX

Platforms   Windows, Linux, Mac OS

Tools   ArgusONE (PTC), MS Office, OpenOffice

Certificates   ○ Certificate in Informatics (Aristotle University of Thessaloniki, Department of Mathematics, 2002).

Research experience

2009-Today   Member of the Applied Mathematics and Computers Laboratory, Technical University of Crete, School of Production Engineering Management

07/2014-08/2015 Thales - *MATENVMED - Advanced mathematical methods and software platform for solving multiphysics, multidomain problems on modern computer architectures: Applications to Environmental Engineering and Medical problems*, NSRF 2007-2013, Operational Programmes, Lifelong Learning and Religious Affairs, Priority Axis 10

Research Recognition and Awards

06/2012-05/2014 Scholar of the Special Research Funds Account of the Technical University of Crete, Basic Research Programme 80794, Project Title: Strengthening Research Activities TUC 2012

Conference publications

○ **Stratis P.**, Dokou Z., Karatzas G., Papadopoulou E. and Saridakis Y., *Optimization and Numerical Simulation for Pumping Management of the Hersonissos Freshwater Coastal Aquifer in Crete*, Procs. of INASE/CSCC-WHH 2015, Recent Advances in Environmental and Earth Sciences and Economics, 329-334, Zakynthos, 2015.

○ **Stratis P.**, Saridakis Y., Papadopoulou E. and Zakynthinaki M., *ALOPEX stochastic optimization for pumping management in freshwater coastal aquifers*, Journal of Physics: Conference Series, 490, 012112, 2014.

Journal publications

○ **Stratis P.**, Dokou Z., Karatzas G., Papadopoulou E. and Saridakis Y., *Stochastic optimization for an analytical model of saltwater intrusion in coastal aquifers*, PLoS ONE 11(9), DOI: 10.1371/journal.pone.0162783, 2016.

○ **Stratis P.**, Dokou Z., Karatzas G., Papadopoulou E. and Saridakis Y., *PTC simulations, stochastic optimization and safety strategies for groundwater pumping management: case study of the Hersonissos Coastal Aquifer in Crete*, Applied Water Science 7 (5), DOI 10.1007/s13201-016-0438-8, 2016.

○ Athanasakis I., Dokou Z., Mathioudakis E., **Stratis P.** and Vilanakis N., *Combining Stochastic Optimization and Numerical Methods Software for the Pumping Management of Coastal Aquifers: Case Study of a Rectangular Homogeneous Aquifer*, International Journal of Mathematical Models and Methods in Applied Sciences, 9:740-747, ISSN:1998-0140, 2015.

○ Hadjidimos A. and **Stratis P.**, *Minimization of the Spectral Norm of the SOR Operator in a mixed case*, ETNA, Volume 28, pp 78-94, 2007.

Teaching experience

02/2017-08/2018 **Co-Teaching**,
Undergraduate Course *Calculus II*
Technical University of Crete, MRED, Chania, Crete

02/2015-08/2018 **Teaching Assistant**,
Undergraduate Course *Numerical Analysis*
Technical University of Crete, PEM, ENVENG, Chania, Crete

09/2017-01/2018 **Co-Teaching**,
Postgraduate Course *Data Analysis and Modeling*
Technical University of Crete, MRED, Chania, Crete

09/2017-01/2018 **Co-Teaching**,
Undergraduate Course *Calculus I*
Technical University of Crete, MRED, Chania, Crete

02/2015-08/2017 **Teaching Assistant**,
Undergraduate Course *Calculus II*
Technical University of Crete, MRED, Chania, Crete

02/2015-08/2017 **Teaching Assistant**,
Undergraduate Course *Numerical Analysis*
Technical University of Crete, PEM, ENVENG, Chania, Crete

09/2015-01/2017 **Teaching Assistant**,
Undergraduate Course *Calculus I*
Technical University of Crete, MRED, Chania, Crete

09/2015-01/2017 **Teaching Assistant**,
Undergraduate Course *Numerical Linear Algebra*
Technical University of Crete, PEM, ENVENG, MRED, Chania, Crete

02/2007-08/2012 **Teaching Assistant**,
Undergraduate Course *Numerical Analysis*
Technical University of Crete, Department of Sciences, Chania, Crete

09/2007-01/2012 **Teaching Assistant**,
Undergraduate Course *Numerical Linear Algebra*
Technical University of Crete, Department of Sciences, Chania, Crete

09/2004-01/2005 **Teaching Assistant**,
Undergraduate Course *Linear Algebra I*
University of Crete, Department of Mathematics, Heraklion, Crete

02/2004-08/2004 **Teaching Assistant**,
Undergraduate Course *Calculus II*
University of Crete, Department of Mathematics, Heraklion, Crete

02/2004-08/2004 **Teaching Assistant**,
Undergraduate Course *Calculus I*
University of Crete, Department of Mathematics, Heraklion, Crete