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Curriculum Vitae

Birthday and place: 8 February 1963, Chania, Crete, Greece

1980-1985: Studies of Civil Engineering, Aristotle University, Thessaloniki, Greece

13 November 1985: Diploma of Civil Engineering: Excellent, **Note 9.20 maximum is 10.00**

7 May 1991 : PhD of Civil Engineering, Department of Civil Engineering, Aristotle University, Thessaloniki, Greece, with distinction (supervisor Prof.Dr.-Ing.habil. Panagiotis D. Panagiotopoulos)

July 1991- March 1992: Military service as Lieutenant of the Greek Air Forces

May 1993 - September 1994

Alexander von Humboldt Research Fellow, Institute of Mechanics (Prof.Dr.Ing. J. Ballmann) and Chair C for Mathematics (Prof.Dr.rer.nat. H.Th. Jongen), Department of Mathematical and Natural Sciences, Technical University of Rhenania-Westfalia (RWTH) Aachen, Germany October 1994 – December 1995:

Research Associate, Institute of Applied Mechanics, Department of Engineering Sciences, Technical University of Crete, Chania (Prof. B.P. Leftheris) and Adjunct Researcher, Group of Theoretical and Applied Mechanics, Academy of Athens, Greece (Academician Prof. P.S. Theocaris).

January 1996 – July 1998

Marie Curie Postdoctoral Fellow, Institute of Applied Mechanics, Department of Civil Engineering, Carolo Wilhelmina Technical University, Braunschweig, Germany (Prof. Dr. rer.nat. habil. Heinz Antes)

September 1998 - December 2000

Scientific Co-worker (assistant professor) with German Civil Servant status, Institute of Applied Mechanics, (Prof.Dr.rer.nat. H. Antes), Department of Civil Engineering, Carolo Wilhelmina Technical University, Braunschweig, Germany

29 June 2000

Habilitation and venia legendi in mechanics, Department of Civil Engineering, Technical University of Braunschweig, Germany, Privatdocent (visiting lecturer) at the same Department till now.

20 December 2000 – August 2005

Associate Professor of Mechanics, Department of Mathematics, University of Ioannina, Greece.

From September 2005

Professor of Nonsmooth Mechanics and Optimization, Department of Production Engineering and Management, Technical University of Crete, Chania, Greece

Distinctions

Postdoctoral Fellowship Alexander von Humboldt Foundation, Germany

Marie Curie postdoctoral Fellowship of the European Union

Teaching and Research activity with Civil Servant status (Technical University of Braunschweig 1998-2000, University of Ioannina, 2001-2005, Technical University of Crete 2005-today)

More than 450 citations

Elected vice president, Greek Association for Computational Mechanics www.gracm.ntua.gr (2009-2010) and president (2011-2012, 2013-2014).

Elected member of the board, Hellenic Society for Theoretical and Applied Mechanics www.hstam.ntua.gr (2013-2016).

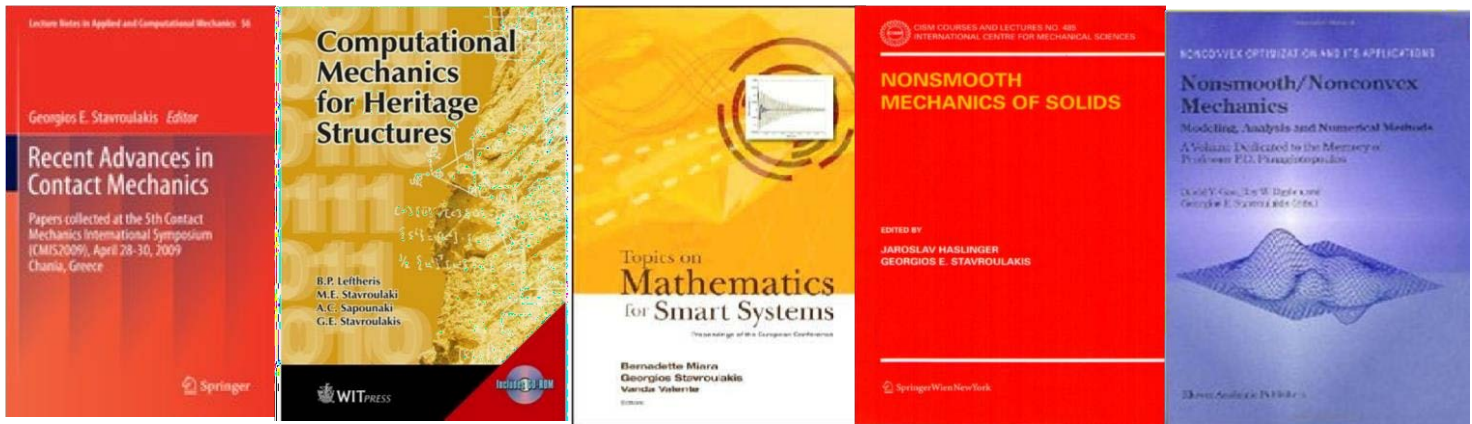
Member of the managing board, Orthodox Academy of Crete www.oac.gr, 2011-today

Scientific publications

Books

1. V.F. Dem'yanov, G.E. Stavroulakis, L.N. Polyakova, P.D. Panagiotopoulos: Quasidifferentiability and nonsmooth modelling in mechanics, engineering and economics. Springer/ Kluwer Academic 1996.
2. E.S. Mistakidis, G.E. Stavroulakis: Nonconvex optimization in mechanics. Smooth and nonsmooth algorithms, heuristics and engineering applications. Springer/ Kluwer Academic 1998.
3. G.E. Stavroulakis: Inverse and identification problems in mechanics. Habilitation Thesis, Dept. of Civil Engineering, Technical University Carolo Wilhelmina, Braunschweig, Germany 2000 and Springer / Kluwer Academic 2000.
4. D.Y. Gao, R. Ogden, G.E. Stavroulakis (Eds.): Nonsmooth/Nonconvex Mechanics: Modeling, Analysis and Numerical Methods. Springer / Kluwer Academic, 2001 (516 pp)
5. Z. Mroz, G.E. Stavroulakis (Eds.): Parameter Identification of Materials and Structures. CISM Lecture Notes Vol. 469, Springer, Wien, New York, 2005.
6. B. Leftheris, A. Sapounaki, M.E. Stavroulaki, G.E. Stavroulakis, Computational Mechanics for Heritage Structures. WIT - Computational Mechanics Publications, Southampton, Boston 2006.

1. G.E.Stavroulakis, C.C. Baniotopoulos, P.D. Panagiotopoulos: Sea-bed structure interaction in the presence



- of frictional effects for submarine pipelines. *Computers and Structures*, 24(5), 767-775, 1986.
7. J. Haslinger, G.E. Stavroulakis (Eds.): *Nonsmooth Mechanics of Solids*. CISM Lecture Notes Vol. 485, Springer, Wien, New York, 2006.
8. B. Miara, G. Stavroulakis, V. Valente (Eds.): *Topics on mathematics for smart systems*. Proceedings of the European Conference, Rome, Italy, 26-28 October 2006, [World Scientific Publishers](http://www.worldscientific.com), Singapore, 2007.
9. A.G. Boudouvis, G.E. Stavroulakis (eds): *7th GRACM International Congress on Computational Mechanics*, Book of Abstracts and CD proceedings, National Technical University of Athens Press, 2011, ISBN 97896099999502. www.7gracm.tuc.gr
10. G.E. Stavroulakis (ed): *Recent Advances in Contact Mechanics*. Proc. Of CMIS2009, Springer, 2012.
11. D.E. Beskos, G.E. Stavroulakis (eds): *Book of Abstracts and CD proceedings*, 10th HSTAM International Congress on Mechanics, May 25-27, 2013, Chania, Greece, Technical University of Crete Publishing House, 2013. www.10hstam.tuc.gr

Journal papers

2. P.D. Panagiotopoulos, G.E.Stavroulakis: A hemivariational inequality approach to the delamination effect in theory of layered plates. *Archives of Mechanics*, 39(5), 497-512, 1987. MR:90a:73102
3. P.D. Panagiotopoulos, G.E.Stavroulakis: A variational-hemivariational inequality approach to the laminated plate theory under subdifferential boundary conditions. *Quarterly of Applied Mathematics*, XLVI(3), 409-430, 1988. MR:89m:73027b
4. G.E.Stavroulakis, P.D. Panagiotopoulos: Laminated orthotropic plates under subdifferential boundary conditions. A variational-hemivariational inequality approach. *ZAMM, Zeitschrift fuer angewandte Mathematik und Mechanik* 68(6), 213-224, 1988.
5. K.M. Abdalla, G.E.Stavroulakis: Zur rationalen Berechnung des "Prying Actions" Phaenomens in Schraubenverbindungen, *Stahlbau*, 58(8), 233-238, 1989.
6. P.D. Panagiotopoulos, G.E.Stavroulakis: The delamination effect in laminated von Karman plates under unilateral boundary conditions. A variational-hemivariational inequality approach. *Journal of Elasticity*, 23, 69-96, 1990. MR :92a:73030
7. S.A. Georgiadis, G.E.Stavroulakis, E.K. Koltsakis, P.D. Panagiotopoulos: Interfacial debonding in composites via mathematical programming methods. The material inclusion problem for lubricated and nonlubricated interfaces. *Computers and Structures*, 34(5), 735-752, 1990.
8. G.E.Stavroulakis: On the static behaviour of cracked masonry walls. *European Journal of Mechanics A/Solids*, 9(4), 341-358, 1990.
9. G.E.Stavroulakis, K.M. Abdalla: Contact between adjacent structures. *Journal of Structural Engineering*, ASCE, 117(10), 2838-2850, 1991.
10. G.E.Stavroulakis, P.D. Panagiotopoulos, A.M. Al-Fahed: On the rigid body displacements and rotations in unilateral contact problems and applications. *Computers and Structures*, 40(3), 599-614, 1991.
11. A.M. Al-Fahed, G.E.Stavroulakis, P.D. Panagiotopoulos: Hard and soft fingered robot grippers. *ZAMM, Zeitschrift fuer angewandte Mathematik und Mechanik*, 71(7/8), 257-266, 1991. MR:92e:70002

12. G.E.Stavroulakis, P.D. Panagiotopoulos: Delamination in multilayered plates in bending under monotone boundary and nonmonotone interlayer conditions. A variational-hemivariational inequality approach. Bulgarian Academy of Sciences. Journal of Theoretical and Applied Mechanics, XXII(2), 38-46, 1991. MR:93f:73062
13. G.E.Stavroulakis: Static analysis of cracked masonry walls by means of the phenomenological interface concept. Bulgarian Academy of Sciences. Journal of Theoretical and Applied Mechanics, XXII(3), 102113, 1991. MR :93e:73033
14. A.M. Al-Fahed, G.E.Stavroulakis, P.D. Panagiotopoulos: A linear complementarity approach to the frictionless gripper problem. International Journal of Robotics Research, 11(2), 112-122, 1992.
15. G.E.Stavroulakis: Convex decomposition for nonconvex energy problems in elastostatics and applications. European Journal of Mechanics A/Solids, 12(1), 1-20, 1993 MR:94c:73061
16. P.D. Panagiotopoulos, G.E.Stavroulakis: New type of variational principles based on the notion of quasidifferentiability. Acta Mechanica, 94, 171-194, 1992. MR:94c:73070
17. G.E.Stavroulakis, P.D. Panagiotopoulos: Convex multilevel decomposition algorithms for non-monotone problems. International Journal for Numerical Methods in Engineering, 36(11), 1945-1966, 1993. MR:94b:73050
18. G.E.Stavroulakis, P.D. Panagiotopoulos: A new class of multilevel decomposition algorithms for nonmonotone problems based on the quasidifferentiability concept. Computer Methods in Applied Mechanics and Engineering, 117, 289-307, 1994. MR:95e:73048
19. G.E.Stavroulakis, M. Ap. Tzaferopoulos: A variational inequality approach to optimal plastic design of structures via the Prager-Rozvany theory. Structural Optimization, 7(3), 160-169, 1994.
20. G.E.Stavroulakis, K.M. Abdalla: A systematic neural network classifier in mechanics. An application in semi-rigid steel joints. International Journal of Engineering Analysis and Design 1, 279-292, 1994.
21. M.Ap. Tzaferopoulos, G.E.Stavroulakis: Optimal structural design via optimality criteria as a nonsmooth mechanics problem. Computers and Structures 55(5), 761-772, 1995. MR:95m:73047
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23. G.E. Stavroulakis, V.F. Demyanov, L.N. Polyakova: Quasidifferentiability in nonsmooth, nonconvex mechanics. Journal of Global Optimization 6(4), 327-345, 1995 (invited). MR:96b:73117
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25. G.E.Stavroulakis: Optimal prestress of cracked unilateral structures: finite element analysis of an optimal control problem for variational inequalities. Computer Methods in Applied Mechanics and Engineering, 123, 231-246, 1995. MR :96b:73080
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27. G.E. Stavroulakis: Optimal prestress of structures with frictional unilateral contact interfaces. Archives of Mechanics (formerly Ingenieur Archiv), 66, 71-81, 1995
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41. D. Goeleven, G.E. Stavroulakis, G. Salmon, P.D. Panagiotopoulos: Solvability theory and projection methods for a class of singular variational inequalities. Elastostatic unilateral contact applications. *JOTA Journal of Optimization, Theory, Methods and Applications*, 95(2), 263-294, 1997. MR:98i:49012
42. G.E. Stavroulakis, H. Antes, Nondestructive static unilateral crack identification. A BEM - neural network approach. *Computational Mechanics* 20(5), 439-451, 1997.
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48. G.E. Stavroulakis, H. Antes: Flaw identification in elastomechanics: BEM simulation with local and genetic optimization. *Structural Optimization*, 16(2/3), 162-175, 1998.
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52. G.E. Stavroulakis, H. Antes: Nonlinear boundary equation approach for inequality 2-D elastodynamics. *Engineering Analysis with Boundary Elements, Special Issue: BEM for Nonlinear Problems*, Eds.: J.T. Katsikadelis and Masa. Tanaka, 23(5-6), 487-501, 1999 (invited).

53. P.S Theocaris, G.E. Stavroulakis: Optimal Material Design in Composites: An Iterative Approach Based on Homogenized Cells. *Computer Methods in Applied Mechanics and Engineering* 169(1-2), 31-42, 1999.
54. G.E. Stavroulakis, A. Rohde: Normal forms and stability in nonsmooth potential elastostatics. *Mechanics Research Communications*, 26(2), 185/190, 1999. MR:2000c:74042
55. G.E. Stavroulakis, H. Antes, P.D. Panagiotopoulos: Transient elastodynamics around cracks including contact and friction. *Computer Methods in Applied Mechanics and Engineering*, Special Issue: Computational Modeling of Contact and Friction, Eds.: J.A.C. Martins and A. Klarbring, 177(3/4), 427440, 1999 (invited).
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57. G.E. Stavroulakis, E.S. Mistakidis: Hemivariational inequality modelling of hybrid laminates with unidirectional composite constituents. *AIAA (American Institute of Aeronautics and Astronautics) Journal* 38(4), 680-686, 2000.
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59. A.M. Al-Fahed Nuseirat, G.E. Stavroulakis: A complementarity problem formulation of the frictional grasping problem. *Computer Methods in Applied Mechanics and Engineering*, 190(8-10), 941-952, 2000.
60. G. E. Stavroulakis, H. Antes: Unilateral crack identification. A filter-driven, iterative, boundary element approach. *Journal of Global Optimization*, 17(1-4), 339-352, 2000. MR:2001k:74089
61. E.C. Zacharenakis, G.E. Stavroulakis: On the seismic disturbance rejection of structures. *Journal of Global Optimization*, 17(1-4), 403-410, 2000.
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63. G.E. Stavroulakis, H. Antes: Transient dynamic analysis of layered structures with unilateral interfaces. *Philosophical Transactions of the Royal Society Special Issue on Nonsmooth Mechanics*, Ed. F. Pfeiffer, Vol. 359, No. 1789, Issue 15th Dec. 2001, 2541-2556 (invited).
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65. A. Muradova-Contadaki, G.E. Stavroulakis: Numerical solving of unilateral contact problems for elastic plates in large deflections. 2nd Special Issue on Nonlinear Problems of Continuous Mechanics, *Izvestiya VUZov. Rostov-na-Donu (Notices of Universities, North-Caucasus Region, Natural Sciences)*, Invited Paper (in press, 2003).
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69. D.G. Marinova, G.E. Stavroulakis: Numerical investigations of optimal control design for building structures subjected to earthquake and wind loadings, *Isv. RAN. Teoria I sistemy upravleniya (Journal of Computer and System Sciences International)*, № 4 (2004), 84-91.
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92. M. Betti, G.A. Drosopoulos, G.E. Stavroulakis: Two non-linear finite element models developed for the assessment of failure of masonry arches. *Comptes Rendus Mecanique, Special Issue on Duality, inverse problems and nonlinear problems in solid mechanics, dedicated to Prof. H. Bui, Vol 336/1-2 pp 42-53 DOI : 10.1016/j.crme.2007.10.014, January 2008.*

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181. A.D. Muradova, G.E. Stavroulakis: A dynamic nonlinear model with contact and buckling for an elastic plate: time spectral analysis. . 10th HSTAM Intern. Congress on Mechanics, Chania, Greece, 25-27 May, 2013.
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 g-index:38, hcindex:11, hI-
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 hI,annual:0.48,

PhD Students supervised and current

- Dipl.-Ing. Marek Engelhardt, Technische Universitaet Braunschweig, Germany, 2004 finished (DFG support)
- Dipl.Math. Eleni Agiasofitou, University of Ioannina, 2005 finished (co-supervisor)
- Dipl.Math. Konstantinos Balassas, University of Ioannina, 2006 finished (co-supervisor)
- Dipl.-Ing. Georgios Drosopoulos, University of Ioannina, 2007 finished (co-supervisor, Latsis Foundation support)
- Dipl.-Ing. Amalia Moutsopoulou, Technical University of Crete, 2009 finished (co-supervisor)
- Dipl.-Ing. Nikos Kaminakis, Technical University of Crete, from 2009 (HERACLITUS project support)
- Dipl.-Ing Fouad Ali, Technical University of Crete, from 2012 (IKY Fellowship support)
- Dipl.-Ing Georgios Tairidis, Technical University of Crete, from 2012
- Dipl.-Ing Georgios Bekas, Technical University of Crete, from 2013
- Dipl.-Ing Zacharenia Markaki, Technical University of Crete, from 2013
- Dipl.-Ing Ngọc Trinh Trần, Technical University of Braunschweig, from 2013 (with Fellowship support)

Current and Resent Research Projects

Project	Duration	Budget
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	3 years from 2012	104312 Euro
	3 years, till 2013	48000 Euro
Postdoctoral research (MANSCMCINMMS nonsmooth mechanics of multiple scales)	3 years, till 2014	18000 Euro
PhD Research HERACLITUS (τοπολογική βελτιστοποίηση)		
PhD Research IKY (Nonsmooth Dynamics)		
Greek-German Cooperation IKYΔA 2012 (2 years, from 2012 impact-echo analysis of piles)		10000 Euro
COST TU0904 IFER – Integrated Fire Engineering and Response (Management Committee Chair, prof. Frantisek Wald, prof. Stavroulakis second Greek Representative in the Management Committee)	2010-2014	http://fire.fsv.cvut.cz/ifer/index.htm
COST TU1304 WINERCOST – Wind energy technology reconsideration to enhance the concept of smart cities (Management Committee Chair, prof. Charalambos Baniotopoulos, prof. Stavroulakis second Greek Representative in the Management Committee)	2015-2019	http://www.cost.eu/domains_actions/tud/Actions/TU1304
ARHIMEDES Project (Sustainable design of metal and timber structures including energy and environmental criteria), with TEI of Kavala, Prof. D. Kaziolas	2011-2014	100000 Euros
ARHIMEDES Project (Modelling, analysis and control of smart structures) with TEI of Epirus, Prof. G. Foutsitzi	2011-2014	100000 Euros
Cooperation project (Digitalization and modelling for cultural heritage), with prof. A. Antoniadis and industrial partners	2012-2015	250000 Euros

