

CURRICULUM VITAE

Name: KOKKINIS VASILEIOS

Nationality: Greek

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EDUCATION

Ph.D in Mathematics, National Technical University of Athens 1992

M.Sc . in Operational Research, University of Athens

B.Sc. in Mathematics, University of Athens

POSITIONS

14/5/1982-28/10/1997 : Teaching Assistant,. National Technical University of Athens

29/10/1997- 22/07/2002: Lecturer,. National Technical University of Athens.

23/07/2002-to date:: Assistant Professor, National Technical University of Athens

RESEARCH INTERESTS

Numerical methods for optimal control problems

TEACHING EXPERIENCE

1. Undergraduate Courses: Numerical Analysis, Numerical methods for Partial Differential Equations, Numerical methods for Differential Equations,
2. Graduate Courses: Numerical Analysis.

PAPERS IN SCIENTIFIC JOURNALS

1. Discretization of Nonlinear Elliptic Optimal Control Problems, with I. Chrysosoverghi, Systems and Control Letters, Vol. 22, pp. 227-234, 1994.
2. Mixed Frank-Wolfe Penalty Method with Applications to Nonconvex Optimal Control Problems, with I. Chrysosoverghi, A. Bacopoulos, J. Coletsos, Journal of Optimization Theory and Applications, Vol. 94, No. 2, pp. 311-334, 1997.
3. Discrete Approximation of Nonconvex Hyperbolic Optimal Control Problems with State Constraints, with I. Chrysosoverghi, A. Bacopoulos, J. Coletsos, Control & Cybernetics, Vol. 27, No 1, pp. 29-50, 1998.
4. Discrete Relaxed Method for Semilinear Parabolic Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, Control & Cybernetics, Vol. 28, No. 2, pp. 157-176, 1999.
5. Approximate Relaxed Descent Method for Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, Control Cybernet., Vol. 30, No. 4, 385-404, 2001.
6. Approximate Gradient Projection Method with Runge-Kutta Schemes for Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, Comp. Optim. Appl., Vol. 29, No. 1, pp. 91-115, 2004.
7. Discretization Methods for Nonconvex Optimal Control Problems with State Constraints, with I. Chrysosoverghi, J. Coletsos, J. Numer. Funct. Anal. Optim., Vol. 26, No. 3, pp.321-348, 2005.
8. Discretization Methods for Optimal Control Problems with State Constraints, with I. Chrysosoverghi, J. Coletsos, J. Comput. Appl. Math., Vol. 191, pp. 1-31, 2006.
9. Discretization-Optimization Methods for Nonlinear Elliptic Relaxed Optimal Control Problems with State Constraints, with I. Chrysosoverghi, J. Geiser, J. Coletsos, Institute of Mathematics, Humboldt University, Berlin, 2006, Site:

<http://www.mathematik.hu-berlin.de/publ/pre/2006/P-06-04.pdf>

10. Discretization-Optimization Methods for Nonlinear Parabolic Relaxed Optimal Control Problems with State Constraints, with I. Chrysoverghi, J. Geiser, J. Coletsos, Humboldt University, Berlin, 2006, Site:

<http://www.mathematik.hu-berlin.de/publ/pre/2006/P-06-07.pdf>

11. Optimization Methods for Nonlinear Elliptic Optimal Control Problems with State Constraints, with J. Coletsos, WSEAS, Transactions on Mathematics, Vol. 5, pp 1169-1176, 2006.

12. Classical and Relaxed Optimization Methods for Optimal Control Problems, with I. Chrysoverghi, J. Coletsos, Int. Math.Forum 2, No.29-32, pp 1477-1498, 2007.

PAPERS IN REFEREED PROCEEDINGS

1. Discretization of Nonlinear Elliptic Optimal Control Problems, Proceedings of the First Hellenic Conference on Mathematics and Informatics, HERMIS '92, E. Lipitakis (Editor), Hellenic Mathematical Society, pp. 69-72, 1992.

2. Approximation of Nonconvex Semilinear Hyperbolic Optimal Control Problems, with I. Chrysoverghi, J. Coletsos, Proceedings of the 3rd Hellenic-European Conference on Mathematics and Informatics, HERMIS '96, Athens, University of Economics and Business, E. Lipitakis (Editor), pp. 238-245, 1996.

3. Discrete Projected Gradient Method for Optimal Control Problems defined by Semilinear Elliptic Equations, HERCMA 2001, Proceedings of the 5th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, September 20-22, 2001, 437-440 (2002).

4. Progressively Refining Discrete Methods for Constrained Optimal Control Problems, with I. Chrysoverghi, J. Coletsos, 4th GRACM Congress on Computational Mechanics, Patra, 2002 (Invitation).

5. Classical and Relaxed Discretization Methods for Semilinear Parabolic Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, Panhellenic Conference on Mathematical Analysis and Applications, NTUA, Athens, 2004.
6. Discretization-Optimization Methods for Relaxed Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, 7th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering., Numphaio, Greece, 2005, World Scientific, 112-119, (2006).
7. Classical and Relaxed Optimization Methods for Nonlinear Parabolic Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, LSSC, 7th international conference, Sozopol, Bulgaria, June 4-8, 2009, Berlin Springer, Lecture Notes in Computer Science 5910, 247-255 (2010).
8. Classical and Relaxed Progressively Refining Discretization-Optimization Methods for Optimal Control Problems defined by Ordinary Differential Equations, with I. Chrysosoverghi, J. Coletsos, LSSC, 8th international conference, Sozopol, Bulgaria, June 6-10, 2011, Berlin Springer, Lecture Notes in Computer Science 7116, 106-114 (2012).

CONFERENCES

1. Discrete Relaxed Method for Nonconvex Optimal Control and Variational Problems, with I. Chrysosoverghi, J. Coletsos, 19th IFIP TC7 Conference on System Modelling and Optimization, Cambridge, July 1999.
2. Numerical Methods for Nonconvex Optimal Control Problems, with I. Chrysosoverghi, J. Coletsos, 1st Interdisciplinary Symposium on Nonlinear Problems, NTUA, Athens, January 2000.
3. Discrete Gradient Methods fo Optimization Methods for Optimal Control Problems with Control and Pointwise state Constraints, with I. Chrysosoverghi, J.

Coletsos, 24th European Conference on Operational Research, EURO XXIV, Lisbon,
July 11-14, 2010.