

Florios J. Kostas

Curriculum Vitae, April 2015

Personal Information

Date of Birth: 11th June, 1977
Nationality: Greek
Marital Status: Single
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E-mail: cflorios@central.ntua.gr, cflorios@yahoo.com, cflorios@aueb.gr
Web: <http://sites.google.com/site/kflorios>
Profession: Chemical Engineer & Operational Researcher, TCG¹ member (2003), HACE² member (2004), HELORS³ member (2007), EURO-EWG⁴ member (2007)
Research: h index: 5, #105 citations & #8 papers (source: Scopus)

Education

2004 – 2010 **National Technical University of Athens (NTUA).** PhD in Operational Research. Title of PhD Thesis: "Multi Objective Combinatorial Optimization. Mathematical programming and application in energy planning and econometrics" (Supervisor: Assoc. Professor George Mavrotas).

2001 – 2003 **National Technical University of Athens (NTUA).** Faculties of Chemical Engineering (coordinator faculty), Mechanical Engineering, Civil Engineering, Naval Engineering, Applied Mathematics and Physical Sciences, MSc in Computational Mechanics (Interdisciplinary). Grade: 9,43/10

1995 – 2001 **National Technical University of Athens (NTUA).** Faculty of Chemical Engineering. Grade: 8,28/10

¹ Technical Chamber of Greece

² Hellenic Association of Chemical Engineers

³ Hellenic Operational Research Society

⁴ EURO Working Group on MultiCriteria Decision Aiding

Work Experience

- 2014 – 2015* **Department of Statistics (AUEB)** Athens University of Economics and Business. Post-Doctoral Researcher in Statistics. Supervisor: Assoc. Prof., Vassilis Vasdekis.
- 2012 – 2013* **Department of International and European Economics Studies (AUEB)** Athens University of Economics and Business. Post-Doctoral Researcher in Econometrics. Supervisor: Assoc. Prof., Yannis Biliias.
- 2010 – 2012* **Laboratory of Industrial and Energy Economics (LIEE/NTUA)** National Technical University of Athens. Post-Doctoral Researcher.
- 2004 – 2010* **Laboratory of Industrial and Energy Economics (LIEE/NTUA)** National Technical University of Athens. PhD Candidate. Participation in one Greek research project ('Leucippus'). Tutoring in three Diploma Theses. Administration of LIEE's website. Director: Professor, Danae Diakoulaki.

Research Projects

- 2014 - 2015* **K. Florios, V. Vasdekis, I. Moustaki, D. Rizopoulos** "Composite Likelihood inference in dynamic latent variable models for longitudinal multidimensional contingency tables", AUEB Research Center, ARISTEIA II. Official start: Febr 2014. Official end: July 2015. Budget: 100,000 €.
- 2013 - 2014* **K. Florios, Y. Biliias**, "Exact computation of censored least absolute deviations estimation", AUEB Research Center, Program Research Reinforcement 2012-2013 'Action Two. 2012-2013. Reinforcement of Post-Doctoral Researchers for the promotion of research'. Official start: 5.12.2012. Official end: 4.12.2013. Budget: 10,000 €.
- 2006 -2007* **K. Florios, G. Mavrotas**, "Development of multiobjective evolutionary algorithms for multiobjective combinatorial optimization problems and comparison to multiobjective mathematical programming", NTUA Fundamental Research Support Senate, Program for Fundamental Research Support 'Lefkippos'. Official start: 1.1.2006. Official end: 31.12.2007. Budget: 14,600 €.

Skills

- Main Skills:* Strong research and development skills
Adequate theoretical background coupled with project driven spirit
Good oral and written communication
Ability to work as part of a team and on my own initiative
Report Writing and Presentation skills
- Computer Skills:* Programming Languages: FORTRAN, Visual Basic, Pascal, Delphi, MATLAB, GAMS, R, C
Operating Systems: Windows XP/VISTA/7, UNIX, LINUX
Compilers: ifort, f95, gcc, fpc
Packages: PHOENICS, LIMDEP, DECISION LAB, GUROBI, CPLEX
Other: Visio, STATA, Tecplot, WINNN
Web Publishing: MS Office Publisher 2007.
- Languages:* Greek (Native)
English – Cambridge Certificate of Proficiency in English, 1991, Grade C
German – Zertifikat Deutsch als Fremdsprache, 1994, Grade A

Journals

International Journals:

- 2008* **K. Florios, S. Skouras** "Exact computation of max weighted score estimators." *Journal of Econometrics* 146 86-91. (Impact Factor 2013: 1.533)
- 2008* **G. Mavrotas, D. Diakoulaki, K. Florios, P. Georgiou** "A mathematical programming framework for energy planning in services' sector buildings under uncertainty in load demand: The case of a hospital in Athens." *Energy Policy* 36 2415-2429. (Impact Factor 2013: 2.696)
- 2009* **G. Mavrotas, J. Figueira, K. Florios** "Solving the bi-objective multi-dimensional knapsack problem exploiting the concept of core." *Applied Mathematics and Computation* 215 2502-2514. (Impact Factor 2013: 1.600)
- 2010* **K. Florios, G. Mavrotas, D. Diakoulaki** "Solving multiobjective, multiconstraint knapsack problems using mathematical programming and evolutionary algorithms." *European Journal of Operational Research* 203 14-21. (Impact Factor 2013: 1.843)

2010 **G. Mavrotas, K. Florios, D. Vlachou** "Energy planning of a hospital using mathematical programming and monte carlo simulation for dealing with uncertainty in the economic parameters." *Energy Conversion and Management* 51 722-731. (Impact Factor 2013: 3.590)

2013 **G. Mavrotas, K. Florios** "An improved version of the augmented ϵ -constraint method (AUGMECON2) for finding the exact pareto set in multi-objective integer programming problems." *Applied Mathematics and Computation* 219 9652-9669. (Impact Factor 2013: 1.600)

2014 **K. Florios, G. Mavrotas** "Generation of the exact Pareto set in multi-objective traveling salesman and set covering problems." *Applied Mathematics and Computation* 237 1-19. (Impact Factor 2013: 1.600)

Journals (Revise and Resubmit)

Y. Biliass, K. Florios, S. Skouras "Exact computation of censored least absolute deviations estimator." (*Journal of Econometrics*) (Revise and Resubmit).

K. Florios, I. Moustaki, D. Rizopoulos, V.G.S. Vasdekis "A modified weighted pairwise likelihood estimator for a class of random effects models." (*Metron*) (Revise and Resubmit).

Working papers

2007 **K. Florios, S. Skouras** "A note on exact computation of max weighted score estimators by mixed integer programming." ([download](#) SSRN report).

2013 **Y. Biliass, K. Florios, S. Skouras** "Exact computation of censored least absolute deviations estimators." ([download](#) SSRN report).

Conferences

International Conferences:

2015 **Y. Biliass, K. Florios, S. Skouras** "Exact computation of censored least absolute deviations estimator", Boneyard Econometrics IV Conference, University of Illinois at Urbana-Champaign, Department of Economics, 17 April 2015, Urbana, IL, USA.

- 2014* **G. Mavrotas, J. Figueira, K. Florios** "Generalizing the core concept for multi-objective multi-dimensional knapsack problems and comparison to evolutionary algorithms", 79th Meeting of the European Working Group Multiple Criteria Decision Aiding (MCDA79), The Association of European Operational Research Societies, 3-5 April 2014, Athens, Greece.
- 2011* **K. Florios, G. Mavrotas**, "Application of the maximum score maximum profit estimator to stocks of the banking sector in the Athens Stock Exchange", 7th GRACM International Congress on Computational Mechanics (GRACM7), Greek Association of Computational Mechanics, 30 June - 2 July 2011, Athens, Greece.
- 2008* **G. Mavrotas, J. Figueira, K. Florios** "Solving bi-objective multidimensional knapsack problems exploiting the concept of core", 67th Meeting of the European Working Group Multiple Criteria Decision Aiding (MCDA67), The Association of European Operational Research Societies, 3-5 April 2008, Rovaniemi, Finland.
- 2007* **K. Florios, G. Mavrotas, D. Diakoulaki** "Solving bi and tri criteria knapsack instances using mathematical programming and evolutionary algorithms: Results and analysis", 66th meeting of the EURO Working Group on Multicriteria Decision Aiding (MCDA66), October 18-20, 2007, Marrakech, Morocco. (full paper accepted for oral presentation).
- 2007* **G. Mavrotas, D. Diakoulaki, P. Georgiou, K. Florios** "Energy planning in buildings under demand uncertainty using Multi-Objective programming and the minimax regret criterion: An implementation in GAMS", 22nd European Conference on Operational Research (EURO XXII), The Association of European Operational Research Societies, July 8-11 2007, Prague, Czech Republic.
- 2006* **G. Mavrotas, K. Florios, P. Georgiou, D. Diakoulaki** "A MOMILP model for hospitals energy rehabilitation handling uncertainty in load profiles", 19th Mini-EURO Conference, Operations Research Models and Methods in the Energy Sector (ORMMES), The Association of European Operational Research Societies, September 6-8 2006, Coimbra, Portugal.
- 2006* **G. Mavrotas, K. Florios, P. Georgiou**, "Energy planning in buildings under uncertainty in fuel costs: The case of a hospital in Greece", 16th European Symposium on Computer Aided Process Engineering (ESCAPE16), European Federation of Chemical Engineering (EFCE), July 9-13, 2006, Garmisch-Partenkirchen, Germany ([download](#), 2nd .pdf file from top, id: 1095.pdf).
- 2006* **K. Florios, G. Mavrotas**, "Urban solid waste collection in peak demand periods via the simulated annealing method", 2nd International Conference and Exhibition organized by the Hellenic Solid Waste Management Association, Hellenic Solid Waste Management Association (HSWMA), February 3-4, 2006, Athens, Greece.
- 2005* **K. Florios, C. Kiranoudis, G. Mavrotas**, "Heuristics for urban solid waste collection", 5th International Exhibition and Conference on Environmental Technology (HELECO'05), Technical Chamber of Greece, Exhibition Centre HELEXPO, February 3-6, 2005, Marousi, Athens, Greece ([in english](#), 6th .pdf file from top).

Greek Conferences:

- 2013* **K. Florios, G. Mavrotas** "Generation of the exact Pareto set in multi-objective traveling salesman and set covering problems", 24th Conference of the Hellenic Operational Research Society, 26-28 September, Athens, Greece ([in English](#)).
- 2013* **K. Florios, S. Skouras, Y.Bilias** "Computation of censored least absolute deviations estimators by mixed integer programming", 9th Hellenic Chemical Engineering Conference, May 23-25 2013, Athens, Greece ([in English](#)).
- 2012* **G. Mavrotas, K. Florios** "Finding the exact Pareto set in multiple objective integer programming problems using an improved version of the epsilon constraint method", 23rd Conference of the Hellenic Operational Research Society, 12-14 September, Athens, Greece ([in English](#)).
- 2008* **K. Florios, G. Mavrotas, D.Diakoulaki** "SMS-UTA: Semiparametric maximum score – utilité additive", 20th Conference of the Hellenic Operational Research Society, 19-21 June, Spetses, Greece.
- 2005* **E. Koutoulakos, K. Florios**, "Development and application of genetic algorithms in multivariate mathematical functions optimization", 5th Hellenic Chemical Engineering Conference, May 26-28 2005, Thessaloniki (in Greek).
- 2003* **K. Florios, C. Kiranoudis**, "Green reverse logistics. The household waste collection problem", 4th Hellenic Chemical Engineering Conference, May 29-31, 2003, Patras (in Greek).
- 2001* **K. Florios, G. Mavrotas, D. Diakoulaki**, " Forecasting international spot prices of fuels and other commodities using artificial neural networks. A comparison to traditional statistical techniques", 3rd Hellenic Chemical Engineering Conference, May 31-June 2, 2001.

Summer Schools

- 2007* **K. Florios, S. Skouras** "A note on exact computation of max weighted score estimators by mixed integer programming", 6th Conference on Research on Economic Theory and Econometrics (CRETE2007), AUEB, July 9-12 2007, Naxos, Greece ([download](#)).
- 2013* **Y. Bilias, K. Florios, S. Skouras** "Computation of censored least absolute deviations estimators by mixed integer programming", 12th Conference on Research on Economic Theory and Econometrics (CRETE2013), AUEB, July 14-18 2013, Naxos, Greece.
- 2014* **Y. Bilias, K. Florios, S. Skouras** "Exact computation of the maximum score estimator in the ordered response model by mixed integer programming", 13th Conference on Research on Economic Theory and Econometrics (CRETE2014), AUEB, July 13-17 2014, Milos, Greece.

Invited Talks

2007 **K. Florios, S. Skouras**, "Computation of maximum score type estimators by mixed integer programming." PhD Seminar Series, Department of International and European Economic Studies, Athens University of Economics and Business, April 18, 2007, Athens ([download](#)).

Reviewer

2011 - 2015 Applied Mathematics and Computation (3)
Computers & Industrial Engineering (1)
Computers & Operations Research (2)
Energy – The International Journal (1)
International Journal of Information Technology & Decision Making (1)
International Journal of Multicriteria Decision Making (6)
Journal of Engineering Mathematics (1)
Operational Research: An International Journal (1)

Miscellaneous

2007 Publication in GAMS Model Library. Model MWS (No.331) (<http://www.gams.com/modlib/libhtml/mws.htm>) (with S. Skouras)

2013 Publication in GAMS Model Library. Model EPSCMMIP (No.384) (<http://www.gams.com/modlib/libhtml/epscmmip.htm>) (with G. Mavrotas)

2014 Publication in GAMS Model Library. Model CLAD (No.397) (<http://www.gams.com/modlib/libhtml/clad.htm>) (with Y. Biliass and S. Skouras)

Scholarships

2004 – 2007 **Greek State Scholarships Foundation (IKY)**. PhD Scholarship.
2001 – 2003 **National Technical University of Athens**. MSc Scholarship.
1995 – 2001 **Hellenic Ministry of National Education**. Diploma Scholarship
1997 – 1998 **Greek State Scholarships Foundation (IKY)**. Yearly Prize
1996 – 1997 **Greek State Scholarships Foundation (IKY)**. Yearly Prize

Other info

Hobbies: Fitness, Cinema, Music, Guitar, Internet.