

CURRICULUM VITAE

PERSONAL INFORMATION

Surname / First Name	PLOSKAS NIKOLAOS
Father's name	Ioannis
Mother's name	Theodora
Date of birth	24/06/1985
Home Address	I. Lioulia 4, Kozani, Greece, 50100
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Nationality	Greek
Gender	Male

RESEARCH INTERESTS

Operations Research, Mathematical Programming, Linear Programming, Parallel Programming, GPGPU Programming, Decision Support Systems, Design and Analysis of Algorithms, Educational Software.

STUDIES

2010 – 2014	Ph.D. in Computer Science at the Department of Applied Informatics, University of Macedonia, Thessaloniki, Greece, under the supervision of Associate Professor Nikolaos Samaras on the subject of "Hybrid Optimization Algorithms – Implementation on GPU". Grade: Excellent.
2007 – 2009	Postgraduate studies at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece. GPA: 9.58 (on a scale of 0 to 10).
2003 – 2007	Undergraduate studies at the Department of Applied Informatics of the University of Macedonia, Greece. GPA: 8.01 (on a scale of 0 to 10).
2003	Graduation from the Second High School of Kozani, Greece. GPA: 18.7 (on a scale of 0 to 20).

DISTINCTIONS

2009	I graduated with the highest degree (9.58 on a scale of 0 to 10) at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece.
2009	Scholarship for second GPA in fourth semester at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece.
2008	Scholarship for first GPA in third semester at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece.
2008	Scholarship for second GPA in second semester at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece.
2007	Scholarship for first GPA in preliminary rate at the Master in Computer Science at the Department of Applied Informatics of the University of Macedonia, Greece.

ACADEMIC APPOINTMENTS

19/03/2013 – 19/07/2013	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Data Warehouses and Data Mining.
8/10/2012 – 15/02/2013	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Programming.
8/10/2012 – 15/02/2013	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Web-based Applications.
8/10/2012 – 15/02/2013	Technological Educational Institute of Western Macedonia, Department of Business Administration. Course: Multimedia Applications.
20/2/2012 – 29/6/2012	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Data Structures and Files.
3/10/2011 – 10/2/2012	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Object Oriented Programming.
Academic year 2011 - 2012	Teaching Assistant (with contract) at the Department of Applied Informatics, University of Macedonia. Course: Programming.
8/3/2011 – 1/7/2011	Technological Educational Institute of Western Macedonia, General Sciences Department. Course: Computers II.
8/3/2011 – 1/7/2011	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Basic Principles of Programming.
8/3/2011 – 1/7/2011	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Programming.
4/10/2010 – 18/2/2011	Technological Educational Institute of Western Macedonia, General Sciences Department. Course: Computers I.
4/10/2010 – 18/2/2011	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Programming.
4/10/2010 – 18/2/2011	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Data Structures and Files.
4/10/2010 – 18/2/2011	Technological Educational Institute of Western Macedonia, Department of Business Information Technologies. Course: Basic Principles of Programming.
9/9/2011 – 24/10/2011	Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).
8/4/2011 – 30/5/2011	Teacher in the course “Multimedia – Web Applications” in INEDIBIM (Institute for Lifelong Learning).
18/3/2010 – 17/3/2011	Teaching Assistant (with contract) in “Web Programming” for the M.Sc. in Applied Informatics, at the University of Macedonia, Greece.

RESEARCH / PROFESSIONAL EXPERIENCE

20/02/08 – today Freelance web, desktop and mobile app developer.

01/09/13 – 30/08/14	"HEALS": Participation in a research programme funded by the European Union.
27/07/13 – 8/01/14	"Greek School Network Division Program": Participation in a research programme funded by the Greek Ministry of Education.
01/02/13 – 30/08/13	"OFFICAIR": Participation in a research programme funded by the European Union.
12/10/12 – 11/4/13	"Greek School Network Division Program": Participation in a research programme funded by the Greek Ministry of Education.
28/02/13 – 28/06/13	"Cross-Border Vertical Axes of Entrepreneurship in Support of Youth and Women": Participation in a research programme co-funded by the European Union and National Funds of Greece and Bulgaria.
13/12/11 – 12/7/12	"Unit of Innovation and Entrepreneurship": Participation in a research programme funded by National Funds.
1/9/10 – 30/6/11	"Evaluation of the effectiveness and efficiency of networks with the use of operations research methods": Participation in a research programme funded by the Research Committee of the University of Macedonia, Greece.
19/6/08 – 30/9/08	Software engineer for the development of computerization system of Student's Practice Department, University of Macedonia, Greece. My duties included programming with ASP, HTML, CSS, JAVASCRIPT and Oracle DBMS.
15/4/08 – 15/6/08	"Publication of educational material using Moodle": Participation in a research programme funded by the Research Committee of the Technological Educational Institute of Kavala.
1/2/08 – 30/3/08	"Publication of educational material using Moodle": Participation in a research programme funded by the Research Committee of the Technological Educational Institute of Kavala.
1/8/07 – 30/12/07	"EumedGrid": Participation in a research programme funded by the European Union.
1/11/06 – 28/2/07	Industrial Chamber of Thessaloniki. I worked in the department of Statistics and Research.
1/2/06 – 28/9/06	National Hellenic Organization of Telecommunications (OTE). I worked in the department of phone support center and sales in Thessaloniki.

TEACHING EXPERIENCE

Department of Applied Informatics, University of Macedonia, Greece	Programming, Data structures, Procedural Programming.
Department of Business Information Technologies, Technological Educational Institute of Western Macedonia, Greece	Data Warehouses and Data Mining, Programming, Web-based Applications, Data Structures and Files, Object Oriented Programming, Basic Principles of Programming.
Department of Business Administration, Technological Educational Institute of Western Macedonia, Greece	Multimedia Applications.
General Sciences	Computers I, Computers II.

Department, Technological
Educational Institute of
Western Macedonia, Greece

Institute for Lifelong Learning,
Greece

Multimedia – Web Applications

FOREIGN LANGUAGES

	Greek
Certificate	Mother tongue
Reading	Native
Writing	Native
Speaking	Native
	English
Certificate	Certificate of Proficiency in English – University of Michigan
Reading	Fluent
Writing	Fluent
Speaking	Fluent
	German
Certificate	Zertificat – Goethe Institut
Reading	Basic
Writing	Basic
Speaking	Basic

COMPUTER SKILLS

Operating systems: Windows and Linux.

Programming Languages: C, C++, C#, Java, Matlab, Fortran, Octave, Python, HTML, PHP, ASP, JSP, SQL, JavaScript, XML, JSON, CSS.

Database Management Systems: MySQL, Microsoft SQL Server, Oracle DB.

Parallel Programming: MPI, OpenMP, CUDA.

Scientific Editors: Latex, Miktex.

Content Management Systems: Joomla, Drupal, Wordpress.

Learning Management Systems: Moodle, LAMS.

Statistic packages: SPSS, Cdas, Statgraph.

Econometric packages: Microfit, Eviews, Ox.

BACHELOR THESIS

Ploskas, N. (2007). Software Development for Computation Experiments. Department of Applied Informatics, University of Macedonia (Grade 10.00/10.00) [in Greek]. Supervisor: Associate Professor Nikolaos Samaras.

MASTER THESIS

Ploskas, N. (2009). Parallel Programming of an Exterior Point Algorithm for Linear Programming Problems. Department of Applied Informatics, University of Macedonia (Grade 10.00/10.00) [in Greek]. Supervisor: Associate Professor Nikolaos Samaras.

PHD THESIS

Ploskas, N. (2014). Hybrid Optimization Algorithms – Implementation on GPU. Department of Applied Informatics, University of Macedonia (Grade: Excellent). Supervisor: Associate Professor Nikolaos Samaras.

PUBLICATIONS

Book Chapters

B1. Papathanasiou, J., Ploskas, N., & Samaras, N. (2014). A Web-Based Decision Support System for the Multiple Capacitated Facility Location Problem. In Decision Support Systems III-Impact of Decision Support Systems for Global Environments. Springer Proceedings in Business Information Processing, pp. 34 – 44.

B2. Ploskas, N., Samaras, N., & Papathanasiou, J. (2013). A Web-Based Decision Support System using Basis Update on Simplex Type Algorithms. In Decision Support Systems II-Recent Developments Applied to DSS Network Environments, Springer Proceedings in Business Information Processing, vol. 164, pp. 102 – 114.

B3. Ploskas, N., Samaras, N., & Margaritis, K. (2013). A Parallel Implementation of the Revised Simplex Algorithm using OpenMP: Some Preliminary Results. In Optimization Theory, Decision Making, and Operational Research Applications. Springer Proceedings in Mathematics & Statistics, vol. 31, pp. 163 – 175.

Journals

J1. Ploskas, N., Samaras, N., & Papathanasiou, J. (2014). A Decision Support System for Solving Linear Programming Problems. International Journal of Decision Support Systems Technology, accepted for publication.

J2. Ploskas, N., Stiakakis, E., & Fouliras, P. (2014). Assessing Computer Network Efficiency Using Data Envelopment Analysis and Multicriteria Decision Analysis Techniques. Journal of Multi-Criteria Decision Analysis, accepted for publication.

J3. Ploskas, N., & Samaras, N. (2014). A Computational Comparison of Scaling Techniques for Linear Optimization Problems on a Graphical Processing Unit. International Journal of Computer Mathematics, accepted for publication.

J4. Ploskas, N., & Samaras, N. (2014). Pivoting Rules for the Revised Simplex Algorithm. Yugoslav Journal of Operations Research, accepted for publication.

J5. Kostoglou, V., Ploskas, N., Vassilakopoulos, M., & Tsantopoulou, V. E. (2014). Analysis and Design of a web-based Decision Support System for Choosing Higher Education Studies. Yugoslav Journal of Operations Research, accepted for publication.

J6. Ploskas, N., & Samaras, N. (2014). GPU Accelerated Pivoting Rules for the Simplex Algorithm. Journal of Systems and Software, vol. 96, pp. 1 – 9.

J7. Ploskas, N., & Samaras, N. (2013). A Computational Comparison of Basis Updating Schemes for the Simplex Algorithm on a CPU-GPU System. American Journal of Operations Research, vol. 3, pp. 497 – 505.

J8. Glavelis, T., Ploskas, N., & Samaras, N. (2010). A Computational Evaluation of Some Free Mathematical Software for Scientific Computing.

International Conferences

IC1. Ploskas, N., Papathanasiou, J., Samaras, N. (2014). Towards a Web-Based Spatial Decision Support System for the Multiple Capacitated Facility Location Problem. In Proceedings of the International Conference GDN 2014, 10 – 13 June, Toulouse, France.

IC2. Ploskas, N., & Samaras, N. (2013). The Impact of Scaling on Simplex Type Algorithms. In Proceedings of the 6th Balkan Conference in Informatics, ACM, 19 – 21 September, Thessaloniki, Greece, pp. 17 – 22.

IC3. Ploskas, N., & Samaras, N. (2013). Computational Comparison of Pivoting Rules for the Revised Simplex Algorithm. In Proceedings of the XI Balkan Conference on Operational Research, 7 – 10 September, Belgrade, Serbia, pp. 309 – 317.

IC4. Kostoglou, V., Vassilakopoulos, M., & Ploskas, N. (2013). Towards a Web Based Decision Support System for Choosing Higher Education Studies. In Proceedings of the XI Balkan Conference on Operational Research, 7 – 10 September, Belgrade, Serbia, pp. 168 – 176.

IC5. Papathanasiou, J., Ploskas, N., & Samaras, N. (2012). A Dynamic Heuristic Algorithm for the Facility Location Problem. In Proceedings of the 8th HSSS National & International Conference, 5 – 7 July, Thessaloniki, Greece.

IC6. Ploskas, N., Samaras, N., & Margaritis, K. (2011). A Parallel Implementation of the Revised Simplex Algorithm using OpenMP: Some Preliminary Results. In Proceedings of the 1st International Symposium & 10th Balkan Conference on Operational Research, 22 – 25 September, Thessaloniki, Greece.

IC7. Glavelis, T., Ploskas, N., & Samaras, N. (2010). A Computational Evaluation of Some Software for Mathematical Programming. In Proceedings of the Applied Computing, Iadis International Conference, 14 – 16 October, Timisoara, Romania, pp. 256 – 260.

IC8. Ploskas, N., Samaras, N., & Sifaleras, A. (2009). A Parallel Implementation of an Exterior Point Algorithm for Linear Programming Problems. In Proceedings of the 9th Balkan Conference on Operational Research (BALCOR 2009), 2 – 6 September, Constanta, Romania.

National Conferences

NC1. Glavelis, T., Ploskas, N., & Samaras, N. (2013). Combining Interior and Exterior Simplex Type Algorithms. In Proceedings of the 17th Panhellenic Conference on Informatics, ACM, 19 – 21 September, Thessaloniki, Greece, pp. 174 – 179.

NC2. Ploskas, N., Samaras, N., & Papathanasiou, J. (2012). LU Decomposition in the Revised Simplex Algorithm. In Proceedings of the 23th National Conference, Hellenic Operational Research Society, 12 – 14 September, Athens, Greece, pp. 77 – 81.

NC3. Ploskas, N., Papathanasiou, J., & Samaras, N. (2012). Parallel Implementation of an Algorithm for the Production Allocation Problem. In Proceedings of the 23th National Conference, Hellenic Operational Research Society, 12 – 14 September, Athens, Greece, pp. 82 – 86.

Conferences without
Proceedings

NC4. Glavelis, T., Ploskas, N., & Samaras, N. (2008). A Peer Review of the Parallel and Distributed Toolboxes of Matrix Programming Languages for Mathematical Programming. In Proceedings of the 20th National Conference of Hellenic Operational Research Society, 19 – 21 June, Spetses Island, Greece, pp. 767 – 775.

NC5. Ploskas, N., & Samaras, N. (2007). Software Development for Computation Experiments. In Proceedings of the 1st Hellenic Scientific Student Conference in Informatics (EUREKA 2007), 18 – 20 May, Patra, Greece, pp. 106 – 118 [in Greek].

C1. Ploskas, N., Kostoglou, V., & Vassilakopoulos, M. (2014). Mapping of Higher Education Specialties through the Implementation of a Decision Support System. In Book of Abstracts of the 3rd International Symposium and 25th National Conference on Operational Research, 26 – 28 June, Volos, Greece, pp. 33 – 34.

C2. Kostoglou, V., Ploskas, N., & Vassilakopoulos, M. (2014). Personalized User Information on a Decision Support System Supporting the Choice of Higher Education Specialty. In Book of Abstracts of the 20th Conference of the International Federation of Operational Research Societies (IFORS 2014), 13 – 18 July, Barcelona, Spain.

C3. Papathanasiou, J., Ploskas, N., Samaras, N. (2014). Analysis and Design Considerations of a Web-Based Decision Support System for the Multiple Capacitated Facility Location Problem. In Book of Abstracts of the International Workshop on Enterprise Information Systems, Tirana, Albania.

C4. Ploskas, N., Samaras, N., & Papathanasiou, J. (2013). A Decision Support System for Solving Linear Programming Problems. In Book of Abstracts of the EURO Mini-Conference GRAZ-2013 on Collaborative Decision Systems in Economics, Complex Societal & Environmental Applications, 17-19 October, Graz, Austria, p. 4.

C5. Vassilakopoulos, M., Kostoglou, V., & Ploskas, N. (2013). A Decision Support System for Choosing Higher Education Studies. In Book of Abstracts of the 2nd International Symposium and 24th National Conference on Operational Research, 26 – 28 September, Athens, Greece.

C6. Ploskas, N., & Samaras, N. (2013). Basis Update on Simplex Type Algorithms. In Book of Abstracts of the EWG-DSS Thessaloniki 2013, 29 – 31 May, Thessaloniki, Greece, p. 11.

C7. Papathanasiou, J., Ploskas, N., & Samaras, N. (2013). A Web-Based Decision Support System for the Capacitated Facility Location Problem. In Book of Abstracts of the EWG-DSS Thessaloniki 2013, 29 – 31 May, Thessaloniki, Greece, p. 29.

C8. Glavelis, T., Margaritis, K., Ploskas, N., & Samaras, N. (2008). Using Grid Technologies for the Mapping out of Taxation Policy. In Book of Abstracts 3rd EGEE User Forum, 11 – 14 February, Clermont – Ferrand, France, pp. 59.

C9. Glavelis, T., Margaritis, K., Ploskas, N., & Samaras, N. (2008). Using Grid Technologies for the Mapping out of Taxation Policy. In Book of Abstracts of the 1st HellasGrid User Forum, 10 – 11 January, Athens, Greece, pp. 22 – 23 [in Greek].

**RESEARCH /
PROFESSIONAL ACTIVITIES**

Member of Management Committees	Management Committee Substitute Member of the COST Action ES1101 “Harmonizing Global Biodiversity Modelling” (2011 – 2015).
Professional Societies	Board Member of the Branch of Macedonia – Thrace of the Hellenic Operational Research Society (2014 – today). Member of the EURO Working Group on Decision Support Systems (EWG-DSS).
Program Committee Member	ICDSST 2015: 1st International Conference on Decision Support System Technology, 27 – 29 May 2015, Belgrade, Serbia.
Reviewer in Peer Reviewed Journals	1. Annals of Operations Research 2. Computational Optimization and Applications 3. Yugoslav Journal of Operations Research 4. Caspian Journal of Applied Sciences Research
Reviewer in Peer Reviewed Conference Proceedings	1. BALCOR 2011: 1st International Symposium & 10th Balkan Conference on Operational Research, 22 – 25 September, 2011. 2. EWG-DSS Thessaloniki 2013 Workshop, 29 – 31 May, 2013.
Reviewer in Peer Reviewed Edited Books	1. Springer Lecture Notes in Business Information Process 2013 on “Impact of the Web of Things in Decision Support Systems for Global Environments”. 2. Springer Lecture Notes in Business Information Process 2014 on “Big Data Analytics for Decision Making”.

REFERENCES

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