
CURRICULUM VITAE

COSTAS VOGLIS

PERSONAL INFORMATION

Date of birth:	22 March, 1978	Telephone-2:	+30 26510 63301
Place of birth:	Ioannina	Email:	voglis@cs.uoi.gr
Telephone-1:	+30 6977053095	Homepage:	www.cs.uoi.gr/~voglis
Marital status:	Single	Nationality:	Greek

Current Status: PhD Candidate in Computer Science, University of Ioannina

EDUCATION

since 3/2002 Ph.D student in the Department of Computer Science, University of Ioannina, Greece
Ph.D Dissertation: *Continuous Local and Global Optimization with Applications*

09/1999–09/2001 M.Sc in Computer Science, University of Ioannina
M.Sc Dissertation: *Model Based Intrusion detection*

08/1995–08/1999 B.Sc in Computer Science, University of Ioannina
B.Sc Dissertation: *Intrusion Detection in TCP/IP Networks*

GRANTS–FUNTS

1995 Scholarship from the Department of Computer Science , University of Ioannina for the undergraduate programme.

1999–2001 Scholarship from the Department of Computer Science , University of Ioannina for the graduate programme.

9/2004–8/2005 Scholarship supported by the European Union in the framework of the project "Support of Computer Science Studies in the University of Ioannina" of the 3rd Community Support Framework of the Hellenic Ministry of Education

RESEARCH INTERESTS

- Development and implementation of Global and Local Optimization methods.
 - Implementation of parallel algorithms (MPI, OpenMP)
 - Simulation of classical systems with the Molecular Dynamics techniques
 - Neural Networks for pattern recognition and function approximation.
 - Optimization in Inverse Scattering problems.
 - Graph Drawing.
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RESEARCH ACTIVITIES

- Publications in International Scientific Journals and Conferences.
- Member of IPAN (*Information Processing and Analysis Research Group*) in the Dept. of Computer Science, University of Ioannina.

Journal Papers

1. **C. Voglis** and I.E. Lagaris, A Global Optimization Approach to Neural Network Training, *Neural, Parallel & Scientific Computations* **14**:231–240, 2006.
2. M.G. Tsipouras, **C. Voglis** and D.I. Fotiadis, A Framework for Fuzzy Expert System Creation Application to Cardiovascular Diseases, *IEEE Transactions on Biomedical Engineering*, (**54**):2089–2105, 2007.
3. C.Papadopoulos and **C. Voglis**, Drawing Graphs using Modular Decomposition, *Journal of Graph Algorithms and Applications* **11**(2): 481–511, 2007.
4. **C. Voglis**, I.E. Lagaris, M.L. Lekala, G.J. Rampho and S.A. Sofianos, Global minimization in few-body systems, *Nuclear Physics* **790**:655–658, 2007.
5. **C. Voglis** and I. E. Lagaris, Towards “Ideal Multistart”. A stochastic approach for locating the minima of a continuous function inside a bounded domain. (accepted for publication in *Applied Mathematics and Computation*)
6. **C. Voglis** P. Hadjidoukas, D. Papageorgiou and I. E. Lagaris, A Numerical Differentiation Library Exploiting Parallel Architectures. (accepted for publication in *Computer Physics Communications*)

Conference Papers

7. **C. Voglis** and S. A. Paschos, A Study on Intrusion Detection Techniques in a TCP/IP Environment, 3th WSEAS International Multiconference on Circuits, Systems, Communications and Computers, Athens, Greece, 1999.
8. **C. Voglis** and I.E. Lagaris, A Hybrid method for neural network training, 6th International Workshop on Mathematical methods in Scattering Theory and Biomedical Engineering, Tsepelovo, Greece, 2004.
9. **C. Voglis** and I. E. Lagaris, A Rectangular Trust Region Dogleg Approach for Unconstrained and Bound Constrained Nonlinear Optimization, WSEAS International Conference on Applied Mathematics, Corfu, Greece, 2004.
10. **C. Voglis** and I. E. Lagaris, A Rectangular Trust-Region Approach for Unconstrained and Box-Constrained Optimization Problems, International Conference of Computational Methods in Sciences and Engineering, Athens, Greece, 2004.
11. **C. Voglis** and I. E. Lagaris, BOXCQP: An Algorithm for Bound Constrained Convex Quadratic Problems , 1st International Conference “From Scientific Computing to Computational Engineering”, Athens, Greece, 2004.
12. M.G. Tsipouras, **C. Voglis**, I.E. Lagaris and D.I. Fotiadis, A Framework for Fuzzy Expert System Creation, 7th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Technology, Nymfaio, Greece, 2005.
13. C. Papadopoulos and **C. Voglis** Drawing Graphs using Modular Decomposition, 13th Symposium on Graph Drawing GD2005, Springer LNCS 3843:343–354, 2005.
14. M.G. Tsipouras, **C. Voglis**, I.E. Lagaris, D.I. Fotiadis, Cardiac arrhythmia classification using support vector machines, The 3rd European Medical and Biological Engineering Conference, Prague, 2005.
15. **C. Voglis** and I. E. Lagaris, Smeenos: A Clustered Particle Swarm Algorithm for Recovering the Local Minima of a Function, Optimization 2007, Porto, Portugal, 2007.
16. **C. Voglis** and I. E. Lagaris, Global Optimization by Adaptively Estimating the Probability for Local Search, Optimization 2007, Porto, Portugal, 2007.

WORKING EXPERIENCE

- 2006–2007 Collaborator in the EU Program entitled *Open Source*.
- 5/2008–7/2008 External Collaborator of Unisystems S.A. on the project *Service provider for the production of cards for Digital Tachographs*, Hellenic Ministry of Transport and Communications.
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TEACHING EXPERIENCE

- 10/1999–6/2007 Teaching assistant in undergraduate courses in Dept. of Computer Science, University of Ioannina.
- 10/2006–6/2007 Laboratory Assistant, Department of TeleInformatics & Management, Technological Educational Institute of Epirus.
- 2006 Teaching assistant in the graduate course of Nonlinear Optimization
- 2007 Teaching assistant in the graduate course of Continuous Global Optimization
- 9/2007 Assistant supervisor for B.Sc Dissertation entitled *Global Optimization Using Bee Colonies*
- 11/2007 Assistant supervisor for B.Sc Dissertation entitled *Particle Swarm Global Optimization*
- 3/2008 Assistant supervisor for B.Sc Dissertation entitled *Global Optimization Using Interval Analysis*
- 5/2008 Assistant supervisor for M.Sc Dissertation entitled *An Application of Normal Distribution Sampling in Global Optimization*
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GRADUATE COURSES

- ◊ Topics on Database Systems: Models, Languages and Architecture.
 - ◊ Topics on Neural Networks and Fuzzy Logic.
 - ◊ Optimization.
 - ◊ Computer Aided Design: Algorithms and Systems.
 - ◊ Topics on Computers Network and Network Programming.
 - ◊ Topics on Biomedical Informatics
 - ◊ Semantics of Programming Languages.
 - ◊ Machine Learning.
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PROGRAMMING SKILLS

- Programming in C, Fortran, C++, Java
- Parallel implementation libraries MPI, OpenMP
- Experienced Matlab Development/Modelling
- ASP, PHP

LANGUAGES

Greek	Native language
English	Very good

HOBBIES

- Music, Travelling, Soccer.