

CURRICULUM VITAE

PANAGIOTIS N. GAVRILIADIS

Mail address: National Technical University of Athens
Department of Naval Architecture and
Marine Engineering
P.O. Box 64033, Zographos 157 10, Athens
GREECE

E_mail address: pmath@central.ntua.gr,
takis.pmath@gmail.com

Nationality: Greek

Date of Birth: February 1974

Marital status: Married

EDUCATION

2006-2007 Post-Doc Research in Marine Hydrodynamics (Department of Naval Architecture and Marine Engineering, National Technical University of Athens)

2006 Ph.D in Marine Hydrodynamics (Department of Naval Architecture and Marine Engineering, National Technical University of Athens)

Thesis title: *Theoretical and numerical exploitation of the moment problem with applications to the probabilistic prediction of stochastic responses of dynamical systems*

Thesis Advisor: Professor G. A. Athanassoulis.

1997 Diploma of Mathematics of Aristotle University of Thessaloniki

PROFESSIONAL EXPERIENCE

1998-2008 Research Assistant
in 11 research projects funded by the European Union, the Greek Secretariat for Research and Technology, etc.

ACADEMIC EXPERIENCE

1998-2009 Teaching Assistant
in 2 postgraduate courses and 4 undergraduate courses in Department of Naval Architecture and Marine Engineering National Technical University of Athens

FIELDS OF SCIENTIFIC INTEREST

- The moment problem. Inverse problems.
- Characterization of distributions.
- Stochastic modelling and analysis of dynamical systems. Probabilistic characterization of the responses of dynamical systems.

REFEREE FOR SCIENTIFIC JOURNALS

- Probabilistic Engineering Mechanics
- Journal of Computational and Applied Mathematics
- Applied Mathematics and Computation

COMPUTERS & SYSTEM PROFICIENCY

- ***Programming Languages:*** Pascal, Fortran, Basic
- ***Mathematical Software:*** Maple, Mathematica, Matlab, SPSS
- ***Applications:*** Latex, Microsoft Excel, Microsoft PowerPoint, Microsoft Word

LANGUAGES

- Cambridge First Certificate in English

SCIENTIFIC PUBLICATIONS

A1. Academic works

- [A1.1] P.N. GAVRILIADIS, **Ph.D. Thesis**, "Theoretical and numerical exploitation of the moment problem with applications to the probabilistic prediction of stochastic responses of dynamical systems". Department of Naval Architecture and Marine Engineering, National Technical University of Athens, May **2006** (379 pp.) (in English)

A2. Chapters in Lecture Notes

- [A2.1] G.A. ATHANASSOULIS, P.N. GAVRILIADIS, "**Stochastic Simulation**", A chapter in the lecture notes, *Stochastic modelling of Marine Systems*, of G.A. Athanassoulis, National Technical University of Athens, 2007 (in Greek)

B1. Publications in Scientific Journals

- [B1.1] G.A. ATHANASSOULIS, P.N. GAVRILIADIS, "The truncated Hausdorff moment problem solved by using kernel density functions", **Probabilistic Engineering Mechanics**, Vol. 17, Issue 3, 2002, pp. 273-291
- [B1.2] P.N. GAVRILIADIS, G.A. ATHANASSOULIS, "Moment data can be analytically completed ", **Probabilistic Engineering Mechanics**, Vol. 18, Issue 4, 2003, pp. 329-338
- [B1.3] P.N. GAVRILIADIS, "Moment information for probability distributions, without solving the moment problem. I: Where is the mode?", **Communications in Statistics – Theory and Methods**, Vol. 37, Issue 5, 2008, pp. 671-681
- [B1.4] P.N. GAVRILIADIS, G.A. ATHANASSOULIS, "Moment information for probability distributions, without solving the moment problem. II: Main-mass, tails and shape approximation", **Journal of Computational and Applied Mathematics**, Vol. 229, Issue 1, 2009, pp. 7-15

B2. Papers submitted in Scientific Journals

- [B2.1] P.N. GAVRILIADIS, G.A. ATHANASSOULIS, "The truncated Stieltjes moment problem solved by using kernel density functions", **under revision**

C. Publications in Conference Proceedings (full paper's review)

- [C.1] G.A. ATHANASSOULIS, P.N. GAVRILIADIS, " Numerical solution of the truncated Stieltjes moment problem ", **IPDO 2007, Inverse Problems, Design and Optimization Symposium**, Miami, Florida, USA, April 2007