Nikolaos Missirlis
Title: Professor
Sector: Theoretical Informatics
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Academic Qualifications:

- Ph.D, (1978) Department of Computer Studies, Loughborough University of Technology, UK.
- B.Sc. in Applied Mathematics (1974), Department of Mathematics, University of Ioannina, Greece.

Appointments:

- 1995 - present: Professor, Department of Informatics, Section of Theoretical Informatics, University of Athens, Athens, Greece.
- 1989-1995: Associate Professor, Department of Informatics, Section of Theoretical Informatics, University of Athens, Athens, Greece.
- 1986 - 1987:
  - Visiting Associate Professor, Department of Computer Science, Rutgers University, New Brunswick, New Jersey, U.S.A.
  - Visiting Researcher, Parallel Computing Laboratory, Center for Computer Aids for Industrial Productivity, Rutgers University, New Brunswick, New Jersey, U.S.A.
- 1984-1989: Assistant Professor, Section of Numerical Analysis and Computer Science Department of Mathematics, University of Athens.
- 1980-1984: Lecturer, Section of Numerical Analysis and Computer Science, Department of Mathematics, University of Athens.

Teaching Activities: (current)

Undergraduate courses
- Introduction to Programming
- Numerical Analysis
- Numerical Linear Algebra
- Algorithms and Complexity

Postgraduate courses
- Scientific Computing
- Parallel Algorithms

Supervisor of 2 Ph.D. dissertations

Research Interests/Activities: (last 10 years)

- Scientific Computing
- Parallel Numerical Linear Algebra
- Parallel Computational Fluid Dynamics
- Load Balancing
- Parallel Linear Programming
- Author of five books

Scientific Publications/Citations:

- 31 publications in refereed journals (120 citations)
- 44 refereed conference publications (40 citations)

Top five publications

- M. A. Louka, N. M. Missirlis and F. I. Tzaferis, *Is modified PSD equivalent to modified SOR for two-cyclic matrices?* Journal Linear Algebra and its Applications, 432, 2798-2815, 2010.
- M. A. Louka, N. M. Missirlis and F. I. Tzaferis, *The impact of the eigenvalue locality on the convergence behavior on the PSD method for two-cyclic matrices,,* Journal Linear Algebra and its Applications, 430, 1929-1944, 2009.
- G. Karagiorgos and N. M. Missirlis, Convergence of the Diffusion method for weighted torus graphs using Fourier analysis, Theoretical Computer Science, Vol. 401, Issues 1-3, pp. 1-16, July 2008.
- N. M. Missirlis, Convergence theory of extrapolated iterative methods for a certain class of non-symmetric linear systems, Numeriche Mathematik 45, 447-458, 1984.
- N. M. Missirlis and D. J. Evans, On the convergence of some generalized preconditioned iterative methods, SIAM J. Num. Anal. 18, No. 4, 591-596, 1981.

Projects:

- 2004-2008: PYTHAGORAS
- 1999-2001: Development of a high accuracy weather prediction system for marine applications. National Project (ΕΠΕΤ II)
- 1998-2001: Parallelization of the Princeton Ocean Model
- 1995-1998: Development of a high accuracy numerical weather prediction system on high performance computers. National Project (ΕΠΕΤ II)
- 1992-1994: Development of parallel methods for the numerical solution of Partial Differential Equations. National Project (PENED).
- 1986-1987: Implementation of parallel numerical methods for the Parallel Computer Ncube-10, Parallel Computing Laboratory, Rutgers University, USA.