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Assistant Professor, Mathematics Department, University of Tennessee, Knoxville, (1976–82).

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Επισκέπτης Καθηγητής, Mathematics Department, University of Tennessee, (Μαρ.–Απρ. 1988, Ιαν. 1989, Δεκ. 1989, Οκτ.–Δεκ. 1990, Αυγ.–Δεκ. 1994).

Επιτροπές – Επιστημονική δραστηριότητα:

- Αναπληρωματικό μέλος Εθνικού Γνωμοδοτικού Συμβουλίου Ερευνας (1988–91), Τακτικό μέλος (1994–96).

- Μέλος Επιτροπής Μεταπτυχιακών Σπουδών και Έρευνας Πανεπιστημίου Κρήτης (1988–91).
- Μέλος Ελληνικής Επιτροπής Δικτύου Υπολογιστών EARN (1985–).
- Μέλος Της Επιστημονικής Επιτροπής του Συνεδρίου First International Symposium on Methods of Lines, Surfaces and Dimensional Reduction in Computational Mathematics and Mechanics, Αθήνα, 12–14 Νοεμβρίου 1991.
- Οργανωτής συνεδρίας πάνω σε “Modelling and Computational Methods in Underwater Acoustics” στο συνέδριο 7th IMACS International Conference on Computer Methods for Partial Differential Equations, Rutgers University, 22–24 Ιουνίου 1992.
- Μέλος της IMACS Technical Committee on Computational Acoustics, (1992–).
- Μέλος της Επιστημονικής Επιτροπής του συνεδρίου Ερμής '92, Πρώτο Ελληνικό Συνέδριο Μαθηματικών και Πληροφορικής, Αθήνα, 25–26 Σεπτεμβρίου 1992.
- Οργανωτής της διημερίδας του ERCIM “Numerical methods for linear and nonlinear wave propagation”, I.T.E., Κρήτη, 29–30 Οκτωβρίου 1992.
- Μέλος της Οργανωτικής Επιτροπής και Ομιλητής στο “Advanced course on Acoustical Oceanography” MAST–I.Y.M./I.T.E., Ηράκλειο 7–19 Ιουνίου 1993.
- Μέλος IMACS Technical Committee on Dynamical Systems and Nonlinear Science (1993–).
- Μέλος της Επιτροπής Βιβλιοθήκης του Ε.Μ.Π. (1993–94).
- Εκδότης του ειδικού τεύχους Computational Underwater Acoustics του περιοδικού Journal of Computational Acoustics, vol. 2, No. 2, June 1994.
- Οργανωτής συνεδρίας “Nonlinear dispersive wave equations: theory, computations and experiments” στο συνέδριο IMACS World Congress, Georgia Tech., 11–15 Ιουλίου 1994.
- Μέλος της Συμβουλευτικής Εκδοτικής Επιτροπής του περιοδικού “Computer Mathematics and its Applications” της Ελληνικής Μαθηματικής Εταιρείας (1994–).
- Μέλος της Επιστημονικής Επιτροπής και Ομιλητής στο συνέδριο Ερμής '96, Third Hellenic–European Conference on Mathematics and Informatics, Αθήνα, 26–28 Σεπτεμβρίου 1996.
- Συνδιοργανωτής (με τον Α. Σ. Φωκά) του Euroconference in Mathematics on Crete, “Nonlinear dispersive waves: theory and applications”, Ανώγεια, Κρήτη, 29 Ιουνίου – 5 Ιουλίου 1997.
- Μέλος της Επιστημονικής Επιτροπής του συνεδρίου IMACS International Conference on “Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory”, Athens, Georgia, Απρ. 12–15, 1999.

- Αναπληρωματικό μέλος της Επιτροπής Μεταπτυχιακών Σπουδών του Πανεπιστημίου Αθηνών (1999–).
- Επιστημονικός Υπεύθυνος (για το Πανεπιστήμιο Αθηνών) του προγράμματος ΕΠΕΑΕΚ “Μαθηματικά για το 2001: Αναμόρφωση και αναβάθμιση των μαθηματικών σπουδών στην Ελλάδα” (σε συνεργασία με τα Πανεπιστήμια Κρήτης και Ιωαννίνων), 1998–2000.
- Συνδιοργανωτής με τους J.L. Bona και M. Chen της συνεδρίας “Nonlinear Dispersive Waves” στο συνέδριο “5th International Conference on Mathematical and Numerical Aspects of Wave Propagation”, SIAM–INRIA, Santiago de Compostella, Ισπανία, 10–14 Ιουλίου 2000.
- Μέλος Εθνικής Επιτροπής για το συνέδριο “6th National Congress on Mechanics, HSTAM, Θεσσαλονίκη, 19–21 Ιουλίου 2001.

Διδακτορικά:

- Χ. Μακρινδάκης (1989, Παν. Κρήτης) Μέθοδοι Galerkin/πεπερασμένων στοιχείων για τις εξισώσεις της ελαστοδυναμικής.
- Ν. Α. Καμπάνης (1992, Παν. Κρήτης) Μέθοδοι Galerkin/πεπερασμένων στοιχείων για προβλήματα με διεπιφάνειες στην Υδροακουστική.
- Β. Pelloni, (Ph. D. 1996, Yale University) Spectral methods for the numerical solution of nonlinear, dispersive wave equations.
- Δ. Χ. Αντωνόπουλος (2000, Παν. Αθηνών) Το σύστημα των εξισώσεων Boussinesq: Θεωρία και αριθμητική ανάλυση.

Δημοσιευμένες εργασίες

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- (2000) (with B. Pelloni) Numerical solution of some nonlocal, nonlinear, dispersive wave equations, *J. Nonlin. Science*, **10**, pp. 1–22.
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Εργασίες που έχουν γίνει δεκτές ή έχουν υποβληθεί για δημοσίευση

- (with G. D. Akrivis, O. A. Karakashian and W.R. McKinney) Numerical approximation of blow-up of radially symmetric solutions of the nonlinear Schrödinger equation. (Submitted.)
- (with B. Pelloni) Numerical modelling of two-way propagation of nonlinear dispersive waves. (To appear in *J. Math. and Computers in Simulation*.)
- (with B. Pelloni) Error estimates for a fully discrete spectral scheme for a class of nonlinear nonlocal dispersive wave equations. (To appear in *Applied Numerical Mathematics*.)
- (with G. D. Akrivis and G. E. Zouraris) Finite difference schemes for the ‘parabolic’ equation in a variable depth environment with a rigid bottom boundary condition. (Submitted.)

Αδημοσιεύτες εργασίες και διδακτικές σημειώσεις

- (1976) High order fully discrete Galerkin approximations to hyperbolic equations, Ph.D. Thesis, Harvard University, (Advisor: Prof. Garrett Birkhoff).
- (1978) Finite difference methods for the numerical solution of partial differential equations (Lecture notes for a graduate level course, University of Tennessee).

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- (1980) (with M. D. Gunzburger) Lecture Notes in Numerical Analysis (Lecture notes for a graduate level course, University of Tennessee).
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