

**ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ**

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## ΒΙΟΓΡΑΦΙΚΑ ΣΤΟΙΧΕΙΑ

ΟΝΟΜΑ:	Ηλίας
ΕΠΙΘΕΤΟ:	Χούσης
ΕΤΟΣ ΓΕΝΝΗΣΗΣ:	1945
ΔΙΕΥΘΥΝΣΗ ΚΑΤΟΙΚΙΑΣ:	Σπυρίδη 1, 38221 Βόλος
ΤΗΛΕΦΩΝΑ ΕΠΙΚΟΙΝΩΝΙΑΣ:	Τηλ. +306937229999, +302421029657
ΟΙΚΟΓΕΝΕΙΑΚΗ ΚΑΤΑΣΤΑΣΗ:	Έγγαμος, 2 παιδιά

## ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΚΑΤΑΣΤΑΣΗ

2012 - 2006 - Σήμερα	Ομότιμος Καθηγητής Πανεπιστημίου Θεσσαλίας Πρόεδρος, Κέντρου Έρευνας, Τεχνολογίας και Ανάπτυξης Θεσσαλίας (ΚΕΤΕΑΘ)
2007 - 2009	Αντιπρόεδρος, Τμήμα Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, Παν. Θεσσαλίας
2012 - Σήμερα 2002 - 2007	Ομότιμος Καθηγητής του Πανεπιστημίου Purdue Πρόεδρος, Τμήμα Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, Παν. Θεσσαλίας
2002 - 2012	Καθηγητής, Τμήμα Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, Παν. Θεσσαλίας
2000 - 2002	Καθηγητής, Τμήμα Μηχανικών ΗΥ και Πληροφορικής, Πανεπιστήμιο Πατρών
1985 - 2006 1996 - 2001	Καθηγητής, Τμήμα Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue Διευθυντής και ιδρυτής του Προγράμματος Υπολογιστική Επιστήμης και Τεχνολογίας (Computational Science and Engineering)
1990-93 & 1995-97	Αντιπρόεδρος, Τμήμα Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue
1980-87	Καθηγητής, Τμήμα Μαθηματικό (Έδρα Εφαρμοσμένων Μαθηματικών - περίοδο 1980 -1981, Διευθυντής Τομέα Επιστήμης Υπολογιστών - περίοδο 1982-84), Αριστοτέλειο Πανεπιστήμιο (ΑΠΘ)
1987-88 & 1993-94	Πρόεδρος, Τμήμα Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue
1980-82	Αναπληρωτής Καθηγητής, Τμήμα Επιστήμης Υπολογιστών, Πανεπιστήμιο Νότιας Καρολίνας
1978-79	Επίκουρος Καθηγητής, Τμήμα Μαθηματικών, Στατιστικής, και Υπολογιστών, Πανεπιστήμιο Νότιας Καρολίνας
1975-78	Επισκέπτης Επίκουρος Καθηγητής, Τμήμα Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue
1974-75	Μεταδιδακτορικός Υπότροφος, Τμήματα Μηχανολόγων και Πολιτικών Μηχανικών, Πανεπιστημίου Purdue

## **ΣΠΟΥΔΕΣ**

1969	Δίπλωμα Μαθηματικού, Πανεπιστήμιο Αθηνών
1974	Διδάκτωρ Επιστημών, Ph.D., Πανεπιστήμιο Purdue, Τμήμα Μαθηματικών
1974 - 1975	Παρακολούθηση Μεταπτυχιακών Σπουδών, Τμήμα Πολιτικών Μηχανικών, Τομέας Κατασκευών, Πανεπιστήμιο Purdue

## **ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΕΤΑΙΡΕΙΕΣ**

Association for Computing Machinery (ACM), IMACS, International Federation for Information Processing, (IFIP) Working Group 2.5 in Numerical Software, Sigma Xi.

## **ΣΥΝΤΑΚΤΙΚΕΣ ΕΠΙΤΡΟΠΕΣ**

Journal of Neural, Parallel & Scientific Computations (1992-2006)  
Journal of HPC Users (1996- 2002)

## **ΕΠΙΣΤΗΜΟΝΙΚΗ - ΕΡΕΥΝΗΤΙΚΗ ΠΕΙΡΑ**

1. Καθηγητής Υπολογιστικών Μαθηματικών και Πληροφορικής, 1978 - σήμερα
2. Διευθυντής προγράμματος Υπολογιστικής Επιστήμης & Τεχνολογίας Πανεπιστημίου Purdue - συμμετέχουν 6 σχολές και 16 Τμήματα, 1996 - 2001
3. Πρόεδρος ΚΕΤΕΑΘ, 2006 - Σήμερα
4. Μετακληθής καθηγητής στο Πανεπιστήμιο Αθηνών από το Πανεπιστήμιο Purdue (δεν αποδέχτην την θέση για οικογενειακούς λόγους)
5. Μετακληθής καθηγητής στο Πανεπιστήμιο Θεσσαλίας από το Πανεπιστήμιο Πατρών
6. Επικεφαλής μεγάλων ερευνητικών προγραμμάτων στο Πανεπιστήμιο Purdue
7. Συνεργαζόμενος Ερευνητής στο ερευνητικό Ινστιτούτο Υπολογιστικής Τεχνολογίας Πατρών

## **ΔΙΟΙΚΗΤΙΚΗ ΕΜΠΕΙΡΙΑ**

1. Διευθυντής Τομέα Επιστήμης Υπολογιστών, ΑΠΘ, 1982 - 1984
2. Αντιπρόεδρος Τμήματος Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue, 1990-93 & 1995-97
3. Πρόεδρος Τμήματος Επιστήμης Υπολογιστών, Πανεπιστημίου Purdue, 1987-88 & 1993-94
4. Πρόεδρος, Τμήμα Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, Παν. Θεσσαλίας, 2002 - 2007
5. Αντιπρόεδρος, Τμήμα Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, Παν. Θεσσαλίας, 2007 - 2009
8. Πρόεδρος FIRST INFORMATICS ΑΕ., 1992 - 1999
9. Πρόεδρος ΚΕΤΕΑΘ, 2006 - Σήμερα
  - Συντονιστής στην δημιουργία και οργάνωση του Κέντρου Έρευνας, Τεχνολογίας και Ανάπτυξης Θεσσαλίας
  - Σύνταξη επιχειρησιακού σχεδίου

- Σύνταξη εσωτερικού κανονισμού
  - Οργάνωση ΚΕΤΕΑΘ (προσωπικό, υποδομές)
  - Μηχανογράφηση διοικητικών και οικονομικών υπηρεσιών
  - Πρόεδρος ΔΣ
10. Δημαρχιακός Σύμβουλος Δήμου Πορταριάς, 2002 - 2006
  11. Μέλος του ΔΣ του Τεχνολογικού Πάρκου Θεσσαλίας, 2004 - Σήμερα
  12. Πρόεδρος Τεχνολογικού Πάρκου Θεσσαλίας, 2011 - Σήμερα
  13. Επιτροπές Περιφέρειας Θεσσαλίας, 2003 - Σήμερα
  14. Υπεύθυνος ερευνητικών ενεργειών του «Περιφερειακού Πόλου Καινοτομίας Θεσσαλίας», 2005 - Σήμερα.
  15. Πρόεδρος Εκλεκτορικού σώματος για την εκλογή διευθυντή Ινστιτούτου Υπολογιστικών Μαθηματικών ΙΤΕ (2004), Ινστιτούτου Πληροφορικής και Τηλεματικής ΕΚΕΤΑ
  16. Μέλος πολλών εκλεκτορικών για ΑΕΙ και ερευνητικών κέντρων.
  17. Επιστημονικός Σύμβουλος Δήμου Βόλου (2010 - Σήμερα)
  18. Επιστημονικός Υπεύθυνος του έργου «κτηριακές υποδομές του Τμήματος Μηχανικών ΗΥ», 2013-2015, χρηματοδότηση 10,500,000, ΕΣΠΑ
  19. Επιστημονικός Υπεύθυνος για το νέο portal του Δήμου Βόλου

#### ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΠΙΤΡΟΠΕΣ

2001 - 2003	Μέλος ΕΣΕΤ και Πρόεδρος του ΤΕΣ Πληροφορικής, Τηλεπικοινωνιών, Συστημάτων
1981 - 1983	Μέλος ΔΣ του ΙΚΥ
1985 - 1987	Μέλος Διοικούσας Επιτροπής του Πανεπιστημίου Θεσσαλίας
1982 - 1985	Εκπρόσωπος σε Ευρωπαϊκές Επιτροπές
2004 - 2011	Μέλος του ΔΣ του Τεχνολογικού Πάρκου Θεσσαλίας,
2011 - 2012	Πρόεδρος Τεχνολογικού Πάρκου Θεσσαλίας
2004 - Σήμερα	Επιτροπές Περιφέρειας Θεσσαλίας
2002 - 2006	Δημαρχιακός Σύμβουλος Δήμου Πορταριάς, 2002 - 2006
2006 - 2008	Αντιπρόεδρος της Διοικούσας Επιτροπής του Πόλου Καινοτομίας Θεσσαλίας

#### ΟΡΓΑΝΩΣΗ ΣΥΝΕΔΡΙΩΝ (2005 - Σήμερα)

1	1 <sup>ο</sup> Συνέδριο Περιφερειακού Πόλου Καινοτομίας (ΠΠΚ-Θ)	ΛΑΡΙΣΑ	16/6/2007
2	1 <sup>ο</sup> Συνέδριο Περιφερειακού Πόλου Καινοτομίας ΠΠΚ-Θ στα πλαίσια της Έρευνας, Καινοτομίας και Ανάπτυξης στη Θεσσαλία	ΤΡΙΚΑΛΑ	12/4/2008
3	2 <sup>ο</sup> Συνέδριο Περιφερειακού Πόλου Καινοτομίας ΠΠΚ-Θ στα πλαίσια της Έρευνας, Καινοτομίας	ΒΟΛΟΣ	24/5/2008

	και Ανάπτυξης στη Θεσσαλία		
4	3ο Συνέδριο Περιφερειακού Πόλου Καινοτομίας ΠΠΚ-Θ στα πλαίσια της Έρευνας, Καινοτομίας και Ανάπτυξης στη Θεσσαλία	ΛΑΡΙΣΑ	20/6/2008
5	1 <sup>η</sup> Συμμετοχή στο Επιχειρηματικό Πανόραμα Μαγνησίας	ΒΟΛΟΣ	Οκτώβριος 2007
6	2 <sup>η</sup> Συμμετοχή στο Επιχειρηματικό Πανόραμα Μαγνησίας	ΒΟΛΟΣ	Οκτώβριος 2008
7	1 <sup>η</sup> Συμμετοχή στην Διεθνή Έκθεση Θεσσαλονίκης	ΘΕΣΣΑΛΟΝΙΚΗ	Σεπτέμβριος 2007
8	2 <sup>η</sup> Συμμετοχή στην Διεθνή Έκθεση Θεσσαλονίκης	ΘΕΣΣΑΛΟΝΙΚΗ	Σεπτέμβριος 2008
9	1 <sup>η</sup> Συμμετοχή στην Εβδομάδα Έρευνας και Τεχνολογίας	Ζάππειο, ΑΘΗΝΑ	Ιούλιος 2007
10	2 <sup>η</sup> Συμμετοχή στην Εβδομάδα Έρευνας και Τεχνολογίας	Ζάππειο, ΑΘΗΝΑ	Ιούλιος 2008
11	Συμμετοχή στις : "Open Days"	Βρυξέλλες	Νοέμβριος 2008
12	Τελικό Συνέδριο Περιφερειακού Πόλου Καινοτομίας Θεσσαλίας (ΠΠΚ-Θ)	ΛΑΡΙΣΑ	13/12/2008
13	Συμμετοχή σε αρκετά συνέδρια και ημερίδες σε συνεργασία με τους συντονιστές των Οριζόντιων Δραστηριοτήτων στα πλαίσια των Περιφερειακών Πόλων Καινοτομίας Δυτικής Μακεδονίας, Θεσσαλίας και Κρήτης αντίστοιχα, 2008	ΘΕΣΣΑΛΟΝΙΚΗ, ΛΑΡΙΣΑ, ΠΑΤΡΑ, ΚΡΗΤΗ	2008
14	1 <sup>η</sup> Ημερίδα Τεχνολογικής Πλατφόρμας Κλωστοϋφαντουργίας	ΒΟΛΟΣ	29/9/2007
15	2 <sup>η</sup> Ημερίδα Τεχνολογικής	ΒΟΛΟΣ	23/05/2008

	Πλατφόρμας Κλωστοϋφαντουργίας		
16	3 <sup>η</sup> Ημερίδα Τεχνολογικής Πλατφόρμας Κλωστοϋφαντουργίας	ΛΑΡΙΣΑ	21/10/2008
17	Μέλος Οργανωτικής Επιτροπής του Συνεδρίου: “Information Society Research, Education, Policy and Practice in the Mediterranean Region”		27-29/09/2009
18	Αγροτική Πολιτική στο Δήμο Βόλου	ΒΟΛΟΣ	26/11/2011

## ΔΗΜΟΣΙΕΥΣΕΙΣ

### ΣΥΝΤΑΚΤΙΚΗ ΕΠΙΤΡΟΠΗ ΠΡΑΚΤΙΚΩΝ ΣΥΝΕΔΡΙΩΝ ΚΑΙ ΑΠΟΤΕΛΕΣΜΑΤΩΝ ΑΝΑΠΤΥΞΙΑΚΩΝ ΠΡΟΓΡΑΜΜΑΤΩΝ

1. *Proceedings of 1<sup>st</sup> International Conference on Supercomputing*, (co-editors C.D. Polychronopoulos, T.S. Papatheodorou), Springer-Verlag (1988).
2. *Proceedings of 3<sup>rd</sup> International Conference on Supercomputing*, (co-editor D. Gannon), ACM Press (1989).
3. *Intelligent Mathematical Software Systems*, (co-editors J.R. Rice, B. Vichnevetsky), North Holland (1990), 363 pages.
4. *Expert Systems for Scientific Computing*, (co-editors J.R. Rice, B. Vichnevetsky), North Holland, Amsterdam (1992), 461 pages.
5. *Artificial Intelligence, Expert Systems and Symbolic Computing*, (co-editors J.R. Rice and B. Vichnevetsky), North Holland (1992), 458 pages.
6. *Problem Solving Environments for High-Level Scientific Problem Solving*, (co-editors P.W. Gaffney), North Holland (1992), 401 pages.
7. *Problem Solving Environments for Computational Science*, (co-editors E. Gallopoulos, R. Bramley), IEEE publication, in preparation (contract has been signed). The above co-editors organized and a special issue on PSEs published in the CS&E magazine in 1997 that contains a subset of these papers.
8. *Enabling Technologies for Computational Science: Frameworks, Middleware, and Environments*, (Houstis, Rice, Gallopoulos, Bramley, eds.), Kluwer Academic Publishers, Boston, March 2000.

9. Computational Science, Mathematics and Software (Elias Houstis and Ron Boisvert, eds.), Purdue University Publishing Press, 2002.
10. FGCS special issue on "Complex Problem-Solving Environments for Grid Computing" (D. Walter and E. Houstis eds), Vol 21 No. 6 ,April 2005.
11. Proceedings of the 10<sup>th</sup> PCI conference (P. Mrozanis, E. Houstis, eds), Springer Verlag, 2005, 600 pages.
12. Το μέλλον της κλωστοϋφαντουργίας και παραγωγής βαμβακιού στην Θεσσαλία, Δεκ. 2008, 56 σελίδες.
13. Στρατηγικό Σχέδιο για την Καινοτομία στην Θεσσαλία (Μέλος της συντακτικής επιτροπής), Μάρτιος 2009, 743 σελίδες.
14. Περιφερειακός Πόλος Καινοτομίας Μοχλός Ανάπτυξης - Αγροϋλικά, Βιοκαύσιμα, Τρόφιμα Ποτά, Δεκ. 2008, 8 σελίδες.
15. Παρατηρητήριο Επιχειρηματικότητας και Καινοτομίας (Η. Χούστης - υπεύθυνος έργου, Ν. Νάνας, Ε. Βάβαλης) , Μάρτιος 2009, 153 σελίδες.
16. Επιχειρησιακό Σχέδιο Κ.Ε.ΤΕ.Α.Θ., Ιούνιος 2010, 126 σελίδες

#### **ΚΡΙΤΙΚΕΣ ΒΙΒΛΙΩΝ**

1. *High Performance Computing Problem Solving with Parallel and Vector Machines* by G.W. Sabot, Math. Comp. (1995)
2. *Environments and tools for parallel scientific computing* Edited by J. Dongarra and B. Tourancheau, Math. Comp. (1995)
3. *Designing and building parallel programs* by Ian Foster, IEEE Comp. Science & Eng. (1997).

#### **ΒΙΒΛΙΑ**

1. Εισαγωγή στην Αριθμητική Ανάλυση, 234 σελίδες, 1981
2. Εισαγωγή στο Προγραμματισμό, 125 σελίδες, 1982
3. Εγχειρίδιο Αριθμητικών Μεθόδων και Εφαρμογών σε MatLab και Python, 454 σελίδες, 2012 (ebook)

#### **ΚΕΦΑΛΑΙΑ ΣΕ ΒΙΒΛΙΑ**

1. Performance evaluation of scientific software (with J.R. Rice and E.A. Vavalis). In *Mathematical Aspects of Scientific Software* (J. Rice, ed.), Springer-Verlag, New York (1988), 123-155.



2. An interactive symbolic-numeric interface to Parallel ELLPACK for building general PDE solvers (with S. Weerawarana and J.R. Rice). In *Symbolic and Numerical Computation for Artificial Intelligence* (B.R. Donald, D. Kapur, and J.L. Mundy eds.), Academic Press, New York (1992), 303-317.
3. Agent based systems to support multidisciplinary problem solving environments for computational science (with J.R. Rice, N. Ramakrishnan, T. Drashansky, S. Weerawarana, A. Joshi, and C.E. Houstis), in *Advances in Computers*, (M. Zelkowitz, ed.), (1998). Also available as Purdue University Technical Report CSD-TR-97-031.
4. Modern software techniques in computational finance (with K.N. Pantazopoulos). In *Modern Software Tools for Scientific Computing* (E. Arge, A-M Bruaset, and H-P Langtangen eds.), Birkhauser, Boston-Basel-Berlin (1997), 227-246.
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44. Ideas for telelearning: WWW, virtual classroom & cybersivity (with A. Joshi, S. Weerawarana, M. Atallah), Department of Computer Sciences Technical Report CSD-TR-95-023, Purdue University, 1995.
45. Multi-agent simulation of complex heterogeneous models in scientific computing (with A. Joshi, T.T. Drashansky, J.R. Rice, S. Weerawarana). CSD-TR-95-025, Department of Computer Sciences, Purdue University, 1996.
46. Neuro-fuzzy systems for intelligent scientific computation (with N. Ramakrishnan, A. Joshi, S. Weerawarana, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-95-026, Purdue University, 1995.
47. Software architecture of ubiquitous scientific computing environments for mobile platforms (with T.T. Drashansky, S. Weerawarana, A. Joshi, R.A. Weerasinghe). Department of Computer Sciences Technical Report CSD-TR-95-032, Purdue University, 1995.
48. Neural and neuro-fuzzy approaches to support "Intelligent" scientific problem solving (with A. Joshi, S. Weerawarana, N. Ramakrishnan, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-95-039, Purdue University (1995).
49. On learning and adaptation in multi-agent systems: A scientific computing perspective (with A. Joshi, T. Drashansky, J. Rice, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-95-040, Purdue University (1995).
50. Parallel ELLPACK elliptic PDE solvers (with S.B. Kim, S. Markus, P. Wu, C.E. Houstis, A.C. Catlin, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-95-042, Purdue University (1995).
51. //ELLPACK: A system for simulating partial differential equations (with S. Weerawarana, A.C. Catlin, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-95-043, Purdue University (1995).
52. PYTHIA: A knowledge based system for intelligent scientific computing (with S. Weerawarana, J.R. Rice, A. Joshi, C.E. Houstis). Department of Computer Sciences Technical Report CSD-TR-95-044, Purdue University (1995).
53. MPSE: Multidisciplinary Problem Solving Environments (with J.R. Rice, A. Joshi, S. Weerawarana, E. Sacks, V. Rego, N.H.L. Wang, C. Takoudis, A.H. Sameh, E. Gallopoulos). Department of Computer Sciences Technical Report CSD-TR-95-047, Purdue University (1995).

54. Notebook interfaces for networked scientific computing: design and WWW implementation (with S. Weerawarana, A. Joshi, J.R. Rice, A.C. Catlin). Department of Computer Sciences Technical Report CSD-TR-95-048, Purdue University (1995).
55. A survey of mobile computing technologies and applications (with A. Joshi, S. Weerawarana, R.A. Weerasinghe, T.T. Drashansky, N. Ramakrishnan). Department of Computer Sciences Technical Report CSD-TR-95-050, Purdue University (1995).
56. Parallel electronic prototyping of physical objects (with P. Wu). Department of Computer Sciences Technical Report CSD-TR-95-054, Purdue University (1995).
57. WWW//PDEPACK A web based problem solving environment for partial differential equations (with W.R. Dyksen, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-95-063, Purdue University (1995).
58. Software architecture of ubiquitous scientific computing environments for mobile platforms (with T.T. Drashansky, S. Weerawarana, A. Joshi, R.A. Weerasinghe). Department of Computer Sciences Technical Report CSD-TR-95-065, Purdue University (1995).
59. A neuro-fuzzy approach to agglomerative clustering (with A. Joshi, N. Ramakrishnan, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-95-066, Purdue University (1995).
60. On neuro-biological, neuro-fuzzy and statistical pattern recognition techniques (with A. Joshi, N. Ramakrishnan, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-96-004, Purdue University (1996).
61. Web//ELLPACK: A networked computing service on the world wide web (with S. Weerawarana, J.R. Rice, M.G. Gaitatzes, S. Markus, A. Joshi). Department of Computer Sciences Technical Report CSD-TR-96-011, Purdue University (1996).
62. A multi agent environment for MPSEs (with T.T. Drashansky, A. Joshi, J.R. Rice, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-96-013, Purdue University (1996).
63. Multi-agent simulation of complex heterogeneous models in scientific computing (with A. Joshi, T. Drashansky, J.R. Rice, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-96-025, Purdue University (1996).
64. Front-tracking finite difference methods for the American option valuation problem (with K.N. Pantazopoulos and S. Zhang), Department of Computer Sciences Technical Report CSD-TR-96-33, Purdue University, May 1996.
65. On mobile systems and disconnected browsing of distributed information (with A. Joshi, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-96-040, Purdue University (1996).
66. Numerical methods for derivative securities models (with K.N. Pantazopoulos). Department of Computer Sciences Technical Report CSD-TR-96-041, Purdue University, July 1996.
67. Performance evaluation of MPI implementations and MPI based parallel ELLPACK solvers (with S. Markus, S.B. Kim, K. Pantazopoulos, A.L. Ocken, P. Wu, S.

- Weerawarana, D. Maharry). Department of Computer Sciences Technical Report CSD-TR-96-044, Purdue University, 1996.
68. Parallel reuse methodologies for elliptic boundary value problems (with S. Markus). Department of Computer Sciences Technical Report CSD-TR-96-056, Purdue University, 1996.
  69. Finanzia: An option valuation library (with K. Pantazopoulos). Department of Computer Sciences Technical Report CSD-TR-96-067, Purdue University, 1996.
  70. Parallel (/ /) ELLPACK: A problem solving environment for PDE based applications on multicomputer platforms (with J.R. Rice, S. Weerawarana, A.C. Catlin, P. Papachiou, K.W. Wang, M. Gaitatzes). Department of Computer Sciences Technical Report CSD-TR-96-070, Purdue University, 1996.
  71. Knowledge discovery in computational science: A case study in algorithm selection (with N. Ramakrishnan and J.R. Rice), Department of Computer Sciences Technical Report CSD-TR-96-081, Purdue University, January 1997.
  72. The Purdue PSE kernel: Towards a kernel for building PSs (with S. Weerawarana, J.R. Rice, A.C. Catlin, M.G. Gaitatzes, C.L. Crabill, S. Markus, T.T. Drashansky). Department of Computer Sciences Technical Report CSD-TR-96-082, Purdue University, 1996.
  73. Financial prediction and trading strategies using neuro-fussy approaches (with K. Pantazopoulos, L.H. Tsoukalas, N.G. Bourbakis, M.J. Brun). Department of Computer Sciences Technical Report CSD-TR-97-002, Purdue University, 1997.
  74. Performance analysis and visualization of parallel systems (with K.N. Pantazopoulos), Technical Report CSD-TR 97-006, Department of Computer Sciences, Purdue University, January 1997.
  75. Softlab: A virtual laboratory framework for computational science (with A.C. Catlin, M.G. Gaitatzes, Z. Ma, S. Markus, J.R. Rice, N.H. Wang, S. Weerawarana). Department of Computer Sciences Technical Report CSD-TR-97-014, Purdue University, 1997.
  76. Multi agent systems to support networked scientific computing (with A. Joshi, N. Ramakrishnan). Department of Computer Sciences Technical Report CSD-TR-97-021, Purdue University, 1997.
  77. Scientific computing via the world wide web: The Net//ELLPACK server (with S. Markus, S. Weerawarana, J.R. Rice). Department of Computer Sciences Technical Report CSD-TR-97-022, Purdue University, 1997.
  78. Network servers for multidisciplinary problem solving (with A. Joshi, S. Weerawarana, J.R. Rice, T.T. Drashansky, S. Markus). Department of Computer Sciences Technical Report CSD-TR-97-023, Purdue University, 1997.
  79. Parallel ELLPACK 3-D problem solving (with V. Verykios). Department of Computer Sciences Technical Report CSD-TR-97-028, Purdue University, 1997.
  80. Agent Based Systems to Support Multidisciplinary Problem Solving Environments (with A. Joshi, N. Ramakrishnan, T.T. Drashansky, J.R. Rice, S. Weerawarana, L.H.

Tsoukalas). Department of Computer Sciences Technical Report CSD-TR-97-031, Purdue University, 1997.

81. Purdue-On-Line: A Facility and Distributed Learning Framework to Develop and Deliver Internet Based Education (with A.K. Elmagarmid, S. Weerawarana, A.L. Peiris, D. Dhanjani, C.E. Houstis, G.L. Coppoc, A.Y.M. Nour, L.H. Tsoukalas, D. Jones). Department of Computer Sciences Technical Report CSD-TR-97-044, Purdue University, 1997.
82. InterBase (KB): A Knowledge-Based Multi-database System for Data Warehousing (with N. Bassiliades, I. Vlahavas, A.K. Elmagarmid). Department of Computer Sciences Technical Report CSD-TR-97-047, Purdue University, 1997.
83. Smart Video Text: An Intelligent Video Database System (with F. Kokkoras, H. Jiang, I. Vlahavas, A.K. Elmagarmid). Department of Computer Sciences Technical Report CSD-TR-97-049, Purdue University, 1997.

#### EPEYNHTIKH XPHMATOΔOTHΣH

SOURCE	TITLE PROJECT	BUDGET	DURATION
1. NSF	Nonlinear partial differential equations	\$35,729	7/78-7/80
2. NSF	Numerical solutions of partial differential equations (with T.S. Papatheodorou)	\$80,000	8/79-8/81
3. NATO	Parallel computing (with J.R. Rice)	\$6,000	7/1/82-6/30/84
4. AFOSR	Parallel PDE algorithms and supercomputer architectures (with J.R. Rice and K. Hwang)	\$452,389	9/30/84-9/30/87
5. ARO	Numerical solution of partial differential equations and software integration tools (with J.R. Rice).	\$57,472	7/1/82-6/30/84
6. NATO	Neuro-computing (with S. Kortesis)	\$6,000	8/85-8/86
7. ESPRIT	(SPAN (Parallel Processing), PADMAVATI (AI), PYGMALLION (Neural Computing), GENESIS I (Supercomputing), GENESIS II (Supercomputing), GALATEA (Neural Computing), PPPE (Portable Parallel Processing Environments), PEPS (Performance Evaluation))	\$15,000,000 (estimate)	8/85-12/94
8. PRF	Multi-domain approximations of partial differential equations	\$15,000	8/87-8/89
9. NSF	A hypercube multiprocessor (with J.R. Rice)	\$65,000	7/87-6/88
10. NSF	Computing about physical objects (with C. Bajaj, C. Hoffmann, J.R. Rice),	\$4,000,000	9/1/87-8/30/92
11. PRF	Summer David Ross Grant	\$1,600	6/88-8/88
12. PRF	Summer David Ross Grant	\$2,300	6/88-8/88
13. NSF	Conference on expert systems for numerical computing	\$4,519	11/88-10/89
14. NSF	Conference on expert systems for numerical computing (with J.R. Rice)	\$10,000	4/90-9/91
15. AFOSR	Parallel methods and systems for solving partial differential equations (with J.R. Rice )	\$295,000	8/1/88-4/30/91

16. PRF	Design an artificial neural network for implementing the automatic parallelization of scientific computations	\$15,000	6/90-6/93
17. NASA	NASA graduate student researchers program: PDE solving kernels for parallel machines	\$22,000	7/91-6/92
18. AFOSR	High performance computing (HPC) methods and systems for partial differential equations (with J.R. Rice)	\$410,746	12/1/91 - 5/31/95
19. PRF	Problem solving environments for the development of PDE based applications on parallel machines	\$9,900	8/92-8/93
20. NSF	Problem solving environments and methods for the development of PDE based applications on parallel machines	\$300,000	9/15/92- 9/14/94
21. NSF	SoftLab -- A laboratory for computational science (with C. Hoffmann and J.R. Rice)	\$1,700,000	10/1/92- 9/30/97
22. NSF	NSF Grant, "Third international conference on expert systems for numerical computing (with J.R. Rice)	\$7,000	5/93-4/94
23. DARPA	PDE solving kernels and systems for scalable MIMD multiprocessors (with J.R. Rice and C. Ribbens)	\$1,027,272	7/1/93- 8/31/96
24. NSF	SciencePad: A mobile and intelligent problem solving environment for PDE based applications (CS&E Postdoctoral Associate/ Anupam Joshi)	\$46,200	06/01/94 - 05/31/96
25. NSF	Research opportunity for David Maharry (Prof. from Wabash College)	\$35,986	05/01/94 - 04/30/96
26. NSF	REU supplement to problem solving environments and methods for the development of PDE based applications on parallel machines (with J.R. Rice)	\$10,000	09/01/94 - 05/30/95
27. NSF	Conference on expert systems for numerical computing (with J.R. Rice)	\$7,000	5/15/93- 4/30/94
28. NSF	REU supplement to Softlab- A laboratory for computational science', (with C. Hoffmann and J.R. Rice),	\$25,000	09/01/94 - 08/31/95
29. NSF	REU supplement to problem solving environments for PDE based applications, (with J.R. Rice),	\$10,000	09/01/94 - 05/31/95
30. Intel	Mobile computing	\$10,000	01/95 - 12/95
31. IBM	24 ThinkPads	\$125,000	01/96 - 12/96
32. Intel	SciencePad equipment	\$120,000	01/96 - 12/96
33. Intel	SciencePad research	\$150,000	01/96 - 12/98
34. AT&T	Classroom of the future	\$23,000	06/94 - 12/95
35. NSF	CISE Research Instrumentation: High performance networks and visualization (with C, Bajaj, E.N. Houstis, D.C. Marinescu and V. Rego)	\$150,000	7/1/95- 6/30/97
36. NSF	Workshop on scalable software and problem solving environments (with E.N. Houstis)	\$5,000	6/1/95- 5/31/96
37. Kozo Keikaku	Engineering contract (with E.N. Houstis)	\$80,000	6/1/96- 7/31/98

38. Class of 1941	Virtual classroom	\$12,000	06/95 - 7/96
39. Special Initiation Grant	Computational finance	\$10,000	06/96 - 06/97
40. Purdue re-investment grant	Purdue-On-Line: A facility for developing and delivering internet based courses	\$123,000	8/96 - 8/99
41. Purdue re-investment grant	MS degree in computational finance	\$22,000	8/96 - 8/97
42. AT&T	Purdue-On-Line	\$22,000	8/96 - 8/97
43. PRF grant	Numerical methods and software for pricing American options	\$12,000	8/97-8/98
44. Intel	Intel Synchronous Internet Based Facility	\$128,000	8/97-8/2000
45. Intel	Intel HPC cluster (Hardware)	\$920,000	8/97-8/2000
46. NSF	SGI Origin 2000 with 32 processors (with Rice, Sameh, Grama, Hoffmann)	\$780,000	8/98-12/99
47. PRF	Computational Science & Engineering Program	\$47,000	8/98 - recurring
48. DARPA	<p>POEMS - End-to-end performance modeling of large heterogeneous Adaptive parallel/distributed computer/communication systems</p> <p>Purdue Group: Elias Houstis, John R. Rice, and Kihong Park</p> <p>Collaborators: Jim Browne - University of Texas at Austin, Vikram Adve - Rice University, Rajive Bagrodia - UCLA, Olaf Lubeck - Los Alamos Nat. Lab., Pat Teller - University of Texas at El Paso and Mary Vernon - University of Wisconsin</p>	\$1,836,000	6/97-6/2000
49. Indiana 21 <sup>st</sup> century program	Incubator for Telemedicine Industry (Large consortium headed by Elmagarmid in computer science)	\$1,500,000	6/99-6/2002
50. DOE	GasTurblab (with Rice, Fleeter, Zhou)	\$3,000,000	6/99-6/2002
51. Indiana 21 <sup>st</sup> century program	e-Business (large consortium headed by Mehta in the Business School)	\$1,200,000	6/00-6/2003
52. NSF	Scalable Enterprise Production Systems (with Aho, Mehta, Alibrantis)	\$100,000	6/00-6/2001
53. NSF	Scalable Enterprise Systems Phase II: Agent Based Scalable Enterprise System for Enterprise Co-design	\$1,100,000	10/01-9/2004
54. NSF	NGS: Collaborative Research: Performance - Driven Adaptive Software Design and Control (with J.R. Rice)	\$430,000	9/01-8/2004



55. NSF	ITR: A data driven environment for multiphysics applications (with Farhat and J. Michopoulos)	\$1,050,000	10/02-12/2004
56. NSF	Travel Support for Young Scientists to attend the Euresco 2003 conference	\$32,000	6/03-11/2007
57. DOD	Synthetic environment for computational experimentation (with Aho, Mehta, Alibrantis)	\$450,000	1/01-9/2004
58. ΕΠΕΑΚ	Διεύρυνση τριτοβάθμιας εκπαίδευσης, εξοπλισμός, ενίσχυση του προπτυχιακού και μεταπτυχιακού προγράμματος του Τμήματος Μηχανικών ΗΥ, Τηλεπικοινωνιών και Δικτύων, πρακτική άσκηση	4,010,140 €	1/8/2000 – 31/12/2008
59. ΕΣΠΑ: 3 <sup>ο</sup> ΚΠΣ	Πόλος Καινοτομίας Θεσσαλίας: Οριζόντιες, Υποδομές, Κοινοπραξία ThessalyTex, Τεχνολογική Πλατφόρμα ThessalyTex	1,540,000 €	7/1/06 – 31/12/08
60. ΕΣΠΑ: 3 <sup>ο</sup> ΚΠΣ	Υποστήριξη του ΚΕΤΕΑΘ	5,500,000 €	1/2/06- 31/12/08
61. LifeLong Learning - Comenius	Environmental Sustainability Training for Children through on-line Simulation, Exploration, and Collaboration	399.742 €	1/12/09 – 30/11/11
62. LifeLong Learning - Comenius	cMinds: Teaching Programming towards the Early Development of Analytical Structural and Critical Minds	393.449 €	1/12/2010 – 30/11/2012
63. LifeLong Learning - Comenius	SEGAN: DEVELOPMENT OF INNOVATIVE ICT-BASED CONTENT, SERVICES, PEDAGOGIES AND PRACTICE FOR LIFELONG LEARNING	32.210 €	1/12/2011 – 30/11/2014
64. LifeLong Learning - Comenius	TALETE: Teaching Maths through Innovative Learning Approach and Contents	39.874 €	1/11/2011 – 30/10/2013
65. LifeLong Learning - Comenius	siLang: Serious Games for Situated Learning of Vehicular Languages Addressing Work Needs	399.795 €	1/12/2012 – 30/11/2014
66. LifeLong Learning - Comenius	iLike: Identifying the Logic structure for languages by use of new Interactive mobile services, new diagnostic training methods for development of Key competences, and new Evaluation methods introducing assessment for learning practices	399.728 €	1/12/2012 – 30/11/2014
67. LifeLong Learning - Comenius	iQVet: Innovative Peer Learning Assessment System for Evaluation of Trainer and Quality VET professional Programmes	399.155 €	1/12/2012 – 30/11/2014
68. Γ.Γ.Ε.Τ.	«Αναπτυξιακές Προτάσεις Ερευνητικών Φορέων-ΚΡΗΠΠΣ»: Τίτλος Έργου: «Ευφυής Πόλος Εξειδίκευσης και Ανάπτυξης Θεσσαλίας: Έρευνα, Καινοτομία, Στρατηγικές»	1.110.000 €	1/1/2013 – 30/06/2015

## ΔΙΔΑΚΤΟΡΙΚΕΣ ΔΙΑΤΡΙΒΕΣ ΚΑΙ ΜΕΤΑΠΤΥΧΙΑΚΕΣ ΔΙΠΛΩΜΑΤΙΚΕΣ

### PH.D.

**Purdue University:** C.C. Christara (1989), N. Chrisochoides (1991), H. Byeun (1994), Sang Bae Kim (1993), Yu-ling Lai (1994, co-advisor A. Hadjidimos), Sanjiva Weerawarana (1994), Potting Wu (1995), Shahani Markus (1999), Tzvetan Drashansky (1997, co-advisor J.R. Rice), K. Pantazopoulos (1998), Naren Ramakrishnan (1997), Vassilis Verykios (1998), G. Zhuang (2000, co-advisor J.R. Rice),

**ΑΠΘ:** Α. Βάβαλης (1986), Μ. Ηροδότου-Ελλίνα (1987)

**Univ. of Thessaly:** Aris Goulalas-Divanis (2008, co-advisor V. Verykios, 4<sup>th</sup> dissertation award, *ACM Special Interest Group on Knowledge Discovery and Data Mining*),

S. Koumbogiannis (2010, co-advisors N. Aravas and K. Malizos).

**Active Ph.D. students** (Καφφέ Ιωάννα, Τάντος Αλέξανδρος, Αξενόπουλος Απόστολος, Φλώρου Χρυσούλα, Τσαλαπάτα Χαρίκλεια)

### **Masters of Sciences (MS)**

#### **Ηνωμένες Πολιτείες Αμερικής (ΗΠΑ)**

Chang-Hyeon Song (1996), Shu Cheng Zang (1996), Vassilios Verykios (1997), Ge Song (1997), Anand Sigh (1998), Kostas Pantazopoulos (1995), Anna Gleissner (1981), S. Wang (1979), D. Fang (1980), Grace Lo (1980), Yea-Sem Lin (1980)

#### **ΕΛΛΑΔΑ**

**Περισσότεροι από 15**

#### **BSc Thesis**

#### **Ελλάδα**

**Περισσότεροι από 40**