ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Όνομα Παναγιώτης Πιντέλας
Θέση Καθηγητής
Δ/ση: Τμήμα Μαθηματικών, Τομέας Υπολογιστικών Μαθηματικών και Πληροφορικής, Πανεπιστήμιο Πατρών.

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Σπουδές
- Πτυχίο Μαθηματικών, Πανεπιστήμιο Αθηνών, 1971.
- M.Sc. in Computer Science, Univ. of Bradford U.K., 1973.
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Υποτροφίες
- Κέντρο ΔΗΜΟΚΡΙΤΟΣ, 1970-1971.
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Επαγγελματική εμπειρία
- Μάρτιος1970 – Σεμτέβριος 1971. Σύμβουλος προγραμματισμού Υπολογιστών στο Κέντρο ΔΗΜΟΚΡΙΤΟΣ.
- Νοέμβριος 1978 - Ιούνιος 1979. Μηχανικός Συστημάτων Λογισμικού της εταιρείας DACC-UNIVAC στην Αθήνα.
- Αύγουστος 1979 - Σεμτέβριος 1983. Με την DACC-UNIVAC, προϊστάμενος της σειράς υπολογιστικών συστημάτων V77 (presales/postsales support, customer training sw/hw configuration proposals, design of customer applications, project evaluations, project management, benchmarks, conversions etc.)

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- Σεμτέβριος 1976 - Ιούνιος 1978. Λέκτορας στο Πανεπιστήμιο Al-Fateh της Λιβύης οπου δίδαξα Introduction to Computer Science, Data Structures, Data Processing, Programming Languages, System Software.
- Οκτώβριος 1981 - Απρίλιος 1984. Ειδικός Επιστήμονας στο Τμήμα Υπολογιστών και Πληροφορικής του Πανεπιστημίου Πατρών (δίδαξα: Εισαγωγή στους Υπολογιστές, Fortran, Λογικός Σχεδιασμός, Αριθμητικές Μέθοδοι, Προγραμματισμός Συστήματος).
- Μάϊος 1984 - Απρίλιος 1987. Λέκτορας στο Τμήμα Υπολογιστών και Πληροφορικής του Πανεπιστημίου Πατρών (Τεχνολογία Λογισμικού, Pascal, Μεταγλωττιστές).
- Απρίλιος 1987 - Φεβρουάριος 1991. Επίκουρος Καθηγητής στο Τμήμα Υπολογιστών και Πληροφορικής του Πανεπιστημίου Πατρών (Τεχνολογία Λογισμικού, Μεταγλωττιστές).
- Φεβρουάριος 1991 - Φεβρουάριος 1997. Αναπληρωτής Καθηγητής στο Τμήμα Μαθηματικών, Τομέας Υπολογιστικών Μαθηματικών, του Πανεπιστημίου Πατρών (Τεχνολογία Λογισμικού, Μεταγλωττιστές, Λειτουργικά Συστήματα).
- Οκτώβριος 1992 - Σήμερα. Διευθυντής του Εργαστηρίου Ανάπτυξης Εκπαιδευτικού

Λογισμικού (ESD*Lab), στο Τμήμα Μαθηματικών, Τομέας Υπολογιστικών Μαθηματικών και Πληροφορικής, του Πανεπιστημίου Πατρών

- Μάρτιος 1997- Σήμερα. Καθηγητής Πληροφορικής στο Τμήμα Μαθηματικών, Τομέας Υπολογιστικών Μαθηματικών, του Πανεπιστημίου Πατρών (.Τεχνολογία Λογισμικού, Μεταγλωττιστές, Σχεδίαση και Αξιολόγηση Εκπαιδευτικού Λογισμικού).
- Μάρτιος 1998 – Απρίλιος 2000. Ακαδημαϊκός Υπεύθυνος, Κριτικός Αναγνώστης και Συγγραφέας του προγράμματος σπουδών Πληροφορικής του Ελληνικού Ανοικτού Πανεπιστήμιου (ΕΑΠ).
- Απρίλιος 2000 - Σήμερα, Μέλος (ΣΕΠ) του διδακτικού προσωπικού του ΕΑΠ.
- Μάρτιος 2003 - Σήμερα, Διευθυντής του εργαστηρίου ΗΥ και εφαρμογών του Τμήματος Μαθηματικών.
- Απρίλιος 2004 – Ιούνιος 2009, Μέλος της Διοικούσας Επιτροπής του Πανεπιστημίου Πελοποννήσου.
- Σεμτέβριος 2004 – Φεβρουάριος 2006, Προεδρεύων του Τμήματος Επιστήμης και Τεχνολογίας Υπολογιστών του Πανεπιστημίου Πελοποννήσου
- Σεμτέβριος 2004 – Φεβρουάριος 2006, Προεδρεύων του Τμήματος Επιστήμης και Τεχνολογίας Τηλεπικοινωνιών του Πανεπιστημίου Πελοποννήσου
- Οκτώβριος 2004- Οκτώβριος 2006, Πρόεδρος της επιστημονικής Ένωσης για τις Τεχνολογίες Πληροφορικής και Επικοινωνιών στην Εκπαίδευση (ΕΤΠΕ).
- Ιανουάριος 2006 – Οκτώβριος 2008, Αντιπρόεδρος της επιστημονικής Ένωσης για τις Τεχνολογίες Πληροφορικής και Επικοινωνιών στην Εκπαίδευση (ΕΤΠΕ).
- Φεβρουάριος 1991 – Σήμερα έχει επιβλέψει 7 διδάκτορες και επιβλέπει 2 υποψήφιους διδάκτορες ενώ διετέλεσε μέλος σε δεκάδες τριμελείς και επταμελείς επιτροπές διδακτορικών διατριβών. Επί σειράν ετών έχει διατελέσει Διευθυντής του Τομέα Υπολογιστικών Μαθηματικών και Πληροφορικής, εκπρόσωπος του Τμήματος στην Επιτροπή Ερευνών, μέλος της Επιτροπής Μεταπτυχιακών Σπουδών, κλπ
- Από 1/09/2009 έως 31/8/2013 διετέλεσε Πρόεδρος του Τμήματος Μαθηματικών.

Ερευνητικά Ενδιαφέροντα

- Software Engineering
- Computer Assisted Training and Education
- Expert Systems and AI in Educational Software
- Virtual Reality in Education and Training
- Intelligent Tutoring Systems (ITSs)
- Adaptive and Adaptable Systems
- Agents and Agent Architectures
- Machine Learning
- Open and Distance Learning

Συμμετοχή σε Ερευνητικά Προγράμματα

Λεπτομερείς περιγραφές των περισσοτέρων έργων βρίσκονται στη διεύθυνση:

ESDLab - Projects

1. Project "Parallel Simula Machine" (national project)
2. Project "GRASPIN", ESPRIT I
3. Project Coordinator "SDDL: Software Design Description Languages" (national project)
4. Project "CLEAR", ESPRIT III
5. Project "DAYSY", ESPRIT III
6. Project "SEMI" , partner (Comett I)
7. Project "Education Research in Hypertext and Multimedia Environment"
8. Project Coordinator for the project "GESEM" (contract no. 90/2/5081/Cb, Comett II)
9. Project Coordinator for the project CALSIM-AXE-10 (national project), Computer Assisted Learning and simulation of AXE 10 Digital switching centers.

10. Project "MATCH", for developing an authoring system for children, European, INCO.
11. Project "YPERION", Virtual Reality in education (national project)
12. Coordinator for the project "EIKWN", Virtual Reality in Secondary Schools, ΥΠΕΠΘ
13. PLOUTARCHOS, researcher
14. PENED 96, NEWRALG, basic research, project manager, National, GGET
15. PENED 99, TELE-INTELECT, basic research, National, GGET
16. PENED 99, X-GENITOR, basic research, project manager, National, GGET
17. PENED 99, AGENDA II, basic research, National, GGET
18. ODL TEI, National project, QUALI-LEARN, Technological Educational Institute of Athens, EPEAEK, researcher.
19. ODL UoP, National project, University of Patras, EPEAEK, project manager, budget 366,000.00 euros.
20. ODL EMP, National project, National Technical University of Athens, EPEAEK, researcher.
21. THRANIO, National project, EPET II, Reusable educational components, partner, http://www.cti.gr/RD3/Thranio/foreis2.htm budget 152,000.00 euros.
22. HERMES human network for new technologies in Open and Distance Learning, National project, partner.
23. Υποέργο "Αναμόρφωση Προγραμμάτων Προπτυχιακών Σπουδών με Δράσεις Κεντρικής Υποστήριξης του Εκπαιδευτικού Έργου" Υπεύθυνος ΔΚΥ2, Πανεπ. Πατρών, Ιδρυματική Πύλη: Ιδρυματική Πύλη
24. PROSAGENT, ARCHIMEDES, National project, Technological Educational Institute (TEI) of Larissa, basic research, "visual tool for intelligent agents", partner 1/4/2004-31/3/2006, researcher, project budget 125,000.00 euros..
25. ARCHIMEDES II, National project, Technological Educational Institute (TEI) of Patras, basic research on "data mining in commerce and business", researcher, 1/1/2005-31/12/2006, budget 98,050 euros.
26. INTERREG IIIB, European Union project, 1/6/2006-31/12/2007, "Elevating and Safeguarding Culture Using Tools of the Information Society: Dusty Traces of the Muslim culture – ACRONYM: ESCUTIS), "ESQUTIS", Code B.888, Partner, funding 63.600e (total project funding 471.000e)
27. ΕΠΕΑΕΚ ΙΙ, National project, «Εκπόνηση Επιχειρησιακού Σχεδίου για τη Δημιουργία και Λειτουργία ΙΔΒΕ στο Πανεπιστήμιο Πελοποννήσου», 06/2006-11/2006, Assistant project manager, budget 125,000.00 euros.
28. "Wide band network applications study for the Municipality of Leonidion", Project Manager, budget 110,000.00 euros, 6/2007-12/2008.
29. Egis+, European Union project, "Leonardo da Vinci", partner, budget 29,205,00 euros, total project budget 400,578.00 euros, 10/2007-03/2010.
30. ΠΑΚΕ, National project, Assistant project manager, "training secondary school teachers on computer and communication technologies", National project, 2008-2009, budget 122,434.00 euros.
31. ΠΕ19, National project, project manager, "training computer scientists in secondary schools on advanced technologies", National project, Feb 2008- June 2009, budget 373,264.00 euros.
32. **ΔΙΠΕΕ,** Ενδο-πανεπιστημιακό ΔΙκτυο για τις Τεχνολογίες Πληροφορίας και Επικοινωνίας στον Πολιτισμό, την Εκπαίδευση και τις Επιστήμες, Συντονιστής Δικτύου.
33. «Παραγωγή εκπαιδευτικών εργαλείων για την εκπαίδευση μαθητών στην αντιμετώπιση σεισμών και άλλων φυσικών καταστροφών», ΕΣΠΑ, 1/3/2012, διάρκεια 14 μήνες, προϋπολογισμός 661.885,40 ευρώ.

Δημοσιεύσεις

Journals and book chapters

1. I.E. Livieris and P. Pintelas, A new conjugate gradient algorithm for training neural networks based on a modified secant equation. **(accepted** for publication), Applied Mathematics and Computation, 2013.
2. I. Livieris and P. Pintelas, "*A new class of spectral conjugate gradient methods based on a modified secant equation for unconstrained optimization*", Journal of Computational and Applied Mathematics, **accepted.**
3. I.E. Livieris and P. Pintelas, *Globally convergent modified Perry conjugate gradient method*, Applied Mathematics and Computation, Volume 218, Issue 18, May 2012, pp. 9197-9207. http://dx.doi.org/10.1016/j.amc.2012.02.076
4. I. E. Livieris and P. Pintelas, An Advanced Conjugate Gradient Training Algorithm Based on a Modified Secant Equation, ISRN Artificial Intelligence, Volume 2012 (2012), pp.1-9.
5. I.E. Livieris and P. Pintelas. *A descent Dai-Liao conjugate gradient method based on a modified secant equation and its global convergence*. ISRN Computational Mathematics, Volume 2012 (2012), Article ID 435495, 8 pages
6. I.E. Livieris and P. Pintelas, *An improved spectral conjugate gradient neural network training algorithm*. International Journal on Artificial Intelligence and Tools, IJAIT's Volume No.21, Issue No. 1. 2012.
7. Marianna S. Apostolopoulou; Dimitris G. Sotiropoulos; C.A. Botsaris; P. Pintelas, "A practical method for solving large-scale TRS", *Optimization Letters*, Vol. 5, No. 2, pp. 207-227, May 2011. (Fortran code)
8. C. T. Rodosthenous, A. D. Kameas, P. E. Pintelas, Diplek: An open LMS that supports fast composition of educational services, book chapter i**n *E-Infrastructures and Technologies for Lifelong Learning: Next Generation Environments***/ George Magoulas, editor**,** pp 59-89, Copyright © 2011 by IGI Global.
9. S.B. Kotsiantis and P.E. Pintelas, Selective costing ensemble for handling imbalanced data sets, International Journal of Hybrid Intelligent Systems 6(3) (2009) pp.123-133.
10. D.N. Kanellopoulos, S.B. Kotsiantis, P.E. Pintelas, "An Ontology-Based Framework for Supporting Localization of e-Learning Content", *Annals of Mathematics, Computing & Teleinformatics*, vol 1 no 6-7, pp 1-10, 2009
11. Ioannis Messinis, Ioannis Vrellis and Panagiotis Pintelas, **Presence in stressful virtual environments,** *Int. J. Teaching and Case Studies, Vol. 2, No. 2, 2009* pp 136-145.
12. M.S. Apostolopoulou, D.G. Sotiropoulos and P. Pintelas. **Solving the quadratic trust-region subproblem in a low-memory BFGS framework,** Journal of Optimization Methods and Software, Volume 23, Issue 5, pp. 651-674, October 2008.
13. S. B. Kotsiantis, P. E. Pintelas, Local Random Subspace of Decision Stumps for Regression Problems, International Conference on Knowledge Discovery (ICKD 2009), June 6-8, 2009 • Manila, Philippines, Accepted (http://www.ickd.org/).
14. Sotiris Kotsiantis, Panayotis Pintelas "Predictive Data mining: A Survey of Regression Methods," the *Encyclopedia of Information Science and Technology, 2nd edition, (M. Khosrow-Pour Ed.)*, Vol VI, Mu-Q, pp 3105-3110.
15. Sotiris Kotsiantis, Dimitris Kanellopoulos, Panayotis Pintelas, "Increasing the Accuracy of Predictive Data Mining Algorithms: A Review of Ensembles of Classifiers," the

Encyclopedia of Information Science and Technology, 2nd edition, (M. Khosrow-Pour Ed.), Vol VI, Mu-Q, pp 2176-2182.

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Educational Applications that Support Sustainable Sessions for Distributed Learners". THEMES in Education Journal vol. 6 (2) pp 169-187.

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30. Program Committee Member: The 9th IEEE International Conference on Advanced Learning Technologies, July 14-18, 2009, Riga, Latvia (ICALT2009).

31. Program Committee Member: HCICTE10, 7th Pan-Hellenic Conference with international participation "Information and Communication Technologies in Education", 23-26 September 2010, Korinthos, Greece.

32. Program Committee member for the 11th IEEE International Conference on Advanced Learning Technologies (ICALT 2011), held at the University of Georgia in Athens, Georgia, USA on 6-8 July 2011.

33. Μέλος της Επιστημονικής Συντονιστικής επιτροπής του Συνεδρίου: 2ο Πανελλήνιο Συνέδριο "Ενταξη και Χρήση των ΤΠΕ στην Εκπαιδευτική Διαδικασία", Πάτρα, 28-30/4/2011

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