CURRICULUM VITAE

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Education

Ph.D., August 1995.
Department of Computer Science, Purdue University, IN, USA. GPA: 4.0/4.0.
Ph.D. Thesis: *Transaction Management for Mobile Heterogeneous Computing.*
Committee: Bharat Bhargava (chair), Michael Atallah, Vincent Russo, Michal Young.

M.Sc., December 1993.
Department of Computer Science, Purdue University, IN, USA. GPA: 4.0/4.0.
M.Sc. Thesis: *Object-Oriented Heterogeneous Databases.*
Committee: Ahmed Elmagarmid (chair), Omran Bukhres, Arif Ghafoor.

Diploma in Computer Science, June 1990.
Department of Computer Engineering and Informatics, School of Engineering, University of Patras, Greece. GPA: 9.3/10.
Diploma Thesis: *On the Computational Power of Neural Networks.*
Diploma Thesis Advisor: T. S. Papatheodorou.

Professional Experience

11/97 – today Lecturer, Department of Computer Science, University of Ioannina, Greece.

9/95 – 11/97. Visiting Assistant Professor, Department of Computer Science, University of Ioannina, Greece.

Courses Taught:
CS432 Data Structures (Fall Semester 1996–97)
CS452 Theory of Computation (Fall Semester 1995–96, Spring Semester 1996-97)
CS453 Database Systems (Fall Semester 1997–98)
CS462 Compilers (Spring Semester 1995–96, 1996–97, 1997–98)
CS465 Simulation (Spring Semester 1995–96)
CSE16 Distributed Database Systems (Spring Semester 1997–98)

Thesis Supervised:
A. Dinakis, "Accessing Databases from the World Wide Web",
D. Barelos, "Using Mobile Agents for Job Scheduling in a Network of Workstations"

6/94 – 7/95. Research Fellow, Raid Laboratory, Department of Computer Science, Purdue University, USA.

Research on mobile databases and on extending ORAID (an object/relational distributed database) to support digital library data.

1/94 – 5/94. Teaching Assistant, Department of Computer Science, Purdue University, USA.

For the graduate course *CS580: Algorithm Design, Analysis and Implementation.*

8/93 – 12/93. Research Assistant, InterBase Laboratory, Department of Computer Science, Purdue University, USA.

Research on database interoperability, and in particular on advanced transaction models and object-based interfaces.

Research Interests

- Data Management in Mobile Computing
- Distributed Object Programming. Heterogeneous Database Systems.
- Advanced Transaction Models. Workflows. Concurrency Control.
- Digital Libraries.

Professional Society Memberships

- Member of the ACM (Association for Computing Machinery) and of the special interest groups SIGMOD and SIGPLAN.
- Member of the IEEE Computer Society.
- Member of the Technical Chamber of Greece.

Professional Activities

Participation in Program Committees of the follwoing Conferences:

"1st International Workshop on Satellite-based Information Services (WOSBIS)", New York, USA, November 1996.

"International Workshop on Mobility in Database and Distributed Systems", Vienna, Austria, 1998.

(National Conference) *"1st Panhellenic Conference on New Infromation Technologies"*, Athens, 1998

Referee Activities

Served as a reviewer for several international conferences and journals including: IEEE Transactions on Computers (special issue on Mobile Computing), IEEE Transactions on Parallel and Distributed Systems, Nomad Journal (special issue on Data Management Issues in Mobile Computing), The Computer Journal, ACM Transactions on Database Systems, International Journal of Parallel and Distributed Databases (special issue on Workflow Management), Software: Practice and Experience, 4th International Conference on Information and Knowledge Management, Digital Library Forum 1995, 15th International Conference on Distributed Computing Systems (1995), 17th International Conference on Distributed Computing Systems (1997), GlobeCom98.

Honors

6/94–8/95. Recipient of a PRF (Purdue Research Foundation) Fellowship.

9/91–8/93. Recipient of a Purdue University Fellowship (Andrews Fellow).

June 1990. Ranked first (highest GPA) among the graduating class of the School of Engineering of the University of Patras, Greece.

1985–1989. Recipient of Annual National Fellowship Foundation (IKY) Awards for academic excellence, Greece.

Elected as a member of ΥΠΕ (Honorary Society for the Computer Sciences) 1993, and ΦΚΦ (National Honorary Society) 1995, USA.

Languages Spoken

Greek (mother tongue)

English (fluent – Cambridge University Proficiency)

Italian (intermediate – PALSO Medio)

German (elementary – Göethe Institute Grundstuffe)

Publications

Books

1. E. Pitoura and G. Samaras, "Data Management for Mobile Computing", Kluwer Academic Publishers, 1998.

In International Journals and Magazines

1. E. Pitoura, B. Bhargava, and O. Wolfson, "Data Consistency in Intermittently Connected Distributed Systems". *IEEE Transaction on Knowledge and Data Engineering*. Accepted, 1998. To appear.

2. E. Pitoura, A. Zhang and B. Bhargava, "On Relaxing Serializability by Constraining Transaction Readsets". *Information Systems*, Vol. 22, No. 6, pp 387–400, 1997.

3. E. Pitoura "Providing Database Interoperability through Object-Oriented Language Constructs". *Journal of Systems Integration*, Vol. 7, No. 2, pp. 99–126, August 1997.

4. I. Fudos, E. Pitoura and W. Szpankowski, "On Pattern Occurrences in a Random Text", *Information Processing Letters*, Vol. 57, No. 6, pp. 307-312, March 1996.

5. E. Pitoura, O. Bukhres and A. Elmagarmid, "Object Orientation in Multidatabase Systems", in *ACM Computing Surveys*, Vol. 27, No 2, pp. 141–195, June 1995.

6. A. Elmagarmid and E. Pitoura, "Using Object-Oriented Technology for Database Integration", *IEEE Computer*, pp. 67–68, October 1995.

7. B. Bhargava, M. Anammalai, and E. Pitoura, "Digital Library Services in Mobile Computing", *Sigmod Record*, Vol. 24, No 4, pp. 34–39, Invited Paper, Special Issue on Mobile Computing, December 1995.

8. E. Pitoura and B. Bhargava, "A Framework for Providing Consistent and Recoverable Agent-Based Access to Mobile Heterogeneous Databases", *Sigmod Record*, Vol. 24, No 3, pp. 44–49, September 1995.

In International Conferences

1. E. Pitoura, "A Replication Schema to Support Weak Connectivity in Mobile Information Systems", in Proceedings of the *7th International Conference on Database and Expert Systems Applications (DEXA96)*, pp. 510–520, Lecture Notes in Computer Science 1134, Springer Verlag, September 1996.

2. E. Pitoura, A. Zhang and B. Bhargava, "A View-based Approach to Relaxing Global Serializability in a Multidatabase System", in Proceedings of the *14th Annual ACM Symposium on the Principles of Distributed Computing (PODC95)*, August 1995.

3. E. Pitoura and B. Bhargava, "Maintaining Consistency of Data in Mobile Distributed Environments", in Proceedings of the *15th IEEE International Conference on Distributed Computing Systems (ICDCS95)*, pp. 404–413, May 1995.

4. E. Pitoura, "Extending an Object-Oriented Programming Language to Support the Integration of Multidatabase Systems", in Proceedings of the *28th IEEE Annual Hawaii International Conference on System Sciences (HICSS-28)*, pp. 707–716, January 1995.

5. E. Pitoura and B. Bhargava, "Revising Transaction Concepts for Mobile Computing", in Proceedings of the *1st IEEE Workshop on Mobile Computing Systems and Applications (MCSA94)*, pp. 164–168, December 1994. An one-page abstract appears also in *TCOS Bulletin*, Spring 1995.

6. E. Pitoura and B. Bhargava, "Building Information Systems for Mobile Environments", in Proceedings of the *3rd ACM International Conference on Information and Knowledge Management (CIKM94)*, pp. 371–378, November 1994.

7. B. Bhargava, S. Goel, S. Li and E. Pitoura, "Communication Issues for Digital Libraries in Wide Area Networks", in *IEEE Workshop on Digital Libraries: Current Issues*, New Jersey, May 1994.

Book Chapters

1. Zaslavsky, A., Bukhres, O., Pitoura, E., "Mobile computing", In: Vol.3 *Handbook on Data Management in Information Systems*, J.Blazewicz, W.Kubiak, T. Morzy, M.Rusinkiewicz eds, Springer Verlag, 1998 (To be published)

2. E. Pitoura, O. Bukhres and A. Elmagarmid, "Object-Oriented Multidatabase Systems: An Overview", in *Object-Oriented Multidatabases: A Solution for Advanced Applications*, Omran Bukhres and Ahmed Elmagarmid eds, Prentice Hall, 1996.

3. B. Bhargava, M. Anammalai, S. Goel, S. Li, E. Pitoura, A. Zhang and Z. Zhang, "DL-Raid: An Environment for Supporting Digital Library Services", in *Issues in Digital Libraries*, Nabil Adams, Bharat Bhargava, and Yelena Yesha, eds, LNCS 916, pp. 281–300, Springer Verlag, 1995.

Submitted/Under Revision

1. E. Pitoura and I. Fudos, "An Efficient Hierarchical Scheme for Locating Highly Mobile Users". Submitted for conference publication. Also available as Technical Report 98-6, Computer Science Department, University of Ioannina, Greece, 1998.

2. G. Samaras and E. Pitoura "Computational Models for Mobile and Wireless Computing". Submitted for journal publication. Also available as Technical Report 98-9, Computer Science Department, University of Ioannina, Greece, 1998.

3. E. Pitoura "Transaction-Based Coordination of Software Agents". Submitted for conference publication. Also available as Technical Report 98-10, Computer Science Department, University of Ioannina, Greece, 1998.

4. E. Pitoura "Supporting Read-Only Transaction in Wireless Broadcasting". Submitted for conference publication. Also available as Technical Report 98-13, Computer Science Department, University of Ioannina, Greece, 1998.

Technical Reports (not included above)

1. X. Liu, E. Pitoura and B. Bhargava, "Adapting Distributed Database Systems for High Availability", Technical Report CSD 95-013, Computer Science Department, Purdue University, 1995.

2. E. Pitoura and B. Bhargava, *Dealing with Mobility: Issues and Research Challenges*, Technical Report CSD 93-070, Computer Science Department, Purdue University, 1993.

Others

1. E. Pitoura, "Introduction to the Theory of Computation", Textbook, University of Ioannina Publications, Ioannina, Greece, November 1995. (in Greek).