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- INTERESTS** Database and knowledge base systems, internet computing and WEB technologies, e-commerce systems, XML, XML based B2B frameworks and standards, distributed object computing, operating systems, object-oriented languages and systems, software engineering, computer architecture and computer networks.
- PERSONEL INFORMATION** *Birth Date and Place:* 24.11.1959 / Konya / Turkey
Marital Status: Married, father of three children
- EDUCATION** **Ph.D., Computer and Information Science**, 1992.
Syracuse University, New York, U.S.A.
Thesis: Data/Knowledge Base Processing Using Optical Associative Architectures
Advisor: Prof. Dr. P. Bruce Berra
- M.S., Computer Engineering**, 1985.
Middle East Technical University, Ankara, Turkey.
Thesis: Software Design Methodologies and An Application by Structured Design
Advisor: Prof. Dr. Ziya Aktaş
- B.S., Computer Engineering**, 1982.
Middle East Technical University, Ankara, Turkey.
- EMPLOYMENT**
- 2000-present **Associate Professor**,
Department of Computer Engineering, Dogus University, Istanbul/Turkey.
- 1997-2000 **Associate Professor**,
Department of Computer Engineering, Yildiz Technical University, Istanbul/Turkey.
- 1992-1997 **Assistant Professor**,
Department of Computer Engineering, Yildiz Technical University, Istanbul/Turkey.
- 1989-1992 **Teaching Assistant**,
School of Computer and Information Science, Syracuse University, N.Y. / U.S.A.
- 1982-1986 **System Engineer**,
Ministry of Internal Affairs Computing Center, Ankara/Turkey.
- 1980-1981 **Student Assistant**,
Academic Computing Center, Middle East Technical University, Ankara/Turkey
- ADMINISTRATIVE DUTIES** **Vice Chairman**,
Department of Computer Engineering, Yildiz Technical University, Istanbul/Turkey,

(1996 to 2000).

COURSES THOUGHT

I have developed and/or taught the following graduate and undergraduate courses at Yildiz Technical and Dogus Universities:

- Database Management Systems (1993,1994,1995,1996,1997,1998,1999,2000)
- File Structures (1993,1994,1995,1996,1997,1998,1999,2000)
- Introduction to WEB technologies (1997, 1998, 1999, 2000)
- Object-Oriented Programming with Java (1997, 1998, 1999, 2000)
- Operating Systems (1998, 1999, 2000,2001)
- Management Information Systems (1994,1995)
- Software Engineering (1994,1995,2001)
- Introduction to Programming with Pascal (1993,1994)
- Computer Networks (1994,1995,1996)
- Logic Circuits (1995,1996)
- Computer Architecture (1995)
- Compiler Construction (2001)
- Parallel Architectures and Algorithms, Graduate course (1995, 1996)
- Internet and WEB technologies, Graduate course (1996)
- Multimedia Database Management Systems, Graduate course (1997)
- Object-Oriented Database Systems, Graduate course (1998)
- Information Retrieval Systems, Graduate course (1999)
- Distributed Object Computing and Multi-Tier Architectures, Graduate course (2000)
- XML and E-Commerce Systems, Graduate course (2000)

As a teaching assistant, I had the complete responsibility of instruction and grading of the following undergraduate and graduate courses at Syracuse University:

- Database Administration and Database Management, graduate course (Fall 1991, Spring 1992)
- Database Management (1991)
- Introduction to Fortran (1989, 1990, 1991)
- APL Programming (1990)

RESEARCH AND PUBLICATIONS

- Aktaş Ziya and Akyokuş S., “Software Design Methodologies and An Application by Structured Design”, 2. *Türkiye Bilgisayar Konferansı*, Page 154-157, Ankara, 1985.
- Shin D. and Akyokuş S., “Implementation of Parallel Relational Operations Based on Surrogate Files for a Non-Recursive, Function-Free Deductive Database System on the Connection Machine”, *Research Report*, 1987.
- Akyokuş S. and Berra P.B.,”Optical Content Addressable Memories for Data/Knowledge Base Processing”, *Proceedings of the Fifth International Parallel Processing Symposium*, Page 105-110, Anaheim, California, 1991.
- Akyokuş S. and Berra P.B., “A Data/Knowledge Base Machine Based on an Optical Content Addressable Memory”, *Journal of Optical Computing and*

Processing 2(3), Page 179-187, 1992.

- Akyokuş S., “Optical Computing”, *Bilişim 93 Kongresi*, Page 123-127, Istanbul, 1993.
- Akyokuş S., “An Optical Associative Data/Knowledge Base Machine Based on Symbolic Substitution Logic”, *Proceedings of the Eighth International Symposium on Computer and Information Sciences*, Page 546-547, Nov. 3-5 1993, Istanbul, Turkey.
- Töre I. and Akyokuş S., “Interbase”, *Byte-Türkiye*, Page 158-161, Feb. 1994.
- Yemliha T. and Akyokuş S., “Pipelining”, *Byte-Türkiye*, Page 100-101, Nov., 1994.
- Akyokuş S., “Client/Server Database Management Systems and Development Tools”, *Bilişim 95*, Page 24-27, Istanbul, 1995.
- Baş E. and Akyokuş S., “A Fuzzy Expert System for Estimation of Istanbul Stock Exchange Index”, *Bilişim 95*, Page 181-187, Istanbul, 1995.
- Akyokuş S. and Berra P.B., “Data/Knowledge Base Processing with Optical Associative Architectures”, *Proceedings of the Tenth International Symposium on Computer and Information Sciences*, Page 629-634, Oct. 30-Nov. 1, 1995, Kuşadası, Turkey.
- Akyokuş S. and Berra P.B., “A 3-D Optical Database Machine”, *International Conference on Applications of Photonic Technology*, 1996, Montreal, Canada.
- Özer E., Örencik B. and Akyokuş S., “An Imprecise Interrupt Handling Scheme in Superscalar Processors”, *Proceedings of the 11. International Symposium on Computer and Information Sciences*, 1996, Antalya, Turkey.
- Yıldırım Ö. and Akyokuş S., “A Multimedia News Database Implemented over the WWW”, *Bilişim 98*, Istanbul, 1998.
- Akyokus S. “XML ve XML Uygulamaları”, Eğitim semineri notları, Bilişim 2000, İstanbul, 2000.
- Akyokus S. “XML tabanlı B2B çözümleri”, Eğitim semineri notları, Bilişim 2001, İstanbul, 2001.

**THESIS
SUPERVISED**

- Erdal Baş, *An expert system for the Estimation of Stock Exchange Index Using Fuzzy Modeling and Analysis Methods*, 1995.
- Hüseyin Basmacı, *Surface Shape Reconstruction Using Photometric Stereo Method*, 1995.
- Emre Özer, *A Model for Increasing Performance in Superscalar Processors*, 1996.
- Serhan Meriç, *A File Sharing and Transfer Application on Novell Netaware Networks*, 1997.

- Önder Yıldırım, *A Multimedia News Database System Over the WWW*, 1998.

INDUSTRIAL EXPERIENCE

1992 - present

I also worked as a consultant in a group of companies in Istanbul. The following is a list of projects involved:

- Management, design, and development of a computerized accounting and management information (E.R.P.) system. The system includes the following modules: account receivables, accounts payables, inventory control, purchase orders, sales orders, billing, manufacturing, fixed assets, general ledger, sales analysis, and funds management.
- Development of a human resources information system.
- Development of WEB systems.
- Development of an E-commerce system.

1982-1986

While at the Ministry of Internal Affairs Computing Center,

- Responsible for the system administration of Honeywell DPS8 and Burroughs A6 systems. Trained for Honeywell Large Systems at the Honeywell Training Center, London.
- Also worked in the development of an information system for registration of vehicles and drivers in Turkey.

HONORS

- Higher Education Council (YOK) scholarship 1986-1989.
- Turkish Scientific and Technical Research Council (TUBITAK) higher education fellowship 1977-1982.
- Selected 3-student team to represent Isparta Lycee in chemistry and mathematics competitions organized by TUBITAK at the Mediterranean district of Turkey. Was 2nd in mathematics, 1977.