

CURRICULUM VITA

NAME	Zeki Bayram		
PERSONAL DATA	Born 13/11/1965, Famagusta, Cyprus. Married with two children. Languages spoken: Turkish (Native), English (Excellent), French (Good), Japanese (Fair), Greek (Fair)		
RESEARCH INTERESTS	Semantic Web Services, Internet Technologies, Constraint Programming, Programming Language Semantics, Declarative Programming Languages, Expert Systems, Automated Deduction		
EDUCATION			
For Bachelor Degree:			
<u>Institution</u>	<u>Years Attended/Year Graduated</u>	<u>Degree</u>	<u>Major Field</u>
University of Pennsylvania	1983-1987	B.Sc. Economics	Accounting
For Masters Degree:			
<u>Institution</u>	<u>Years Attended/Year Graduated</u>	<u>Degree</u>	<u>Major Field</u>
Univ. of Alabama in Birmingham	1987-1988	M.Sc.	Computer and Information Sciences
For PhD. Degree:			
<u>Institution</u>	<u>Years Attended/Year Graduated</u>	<u>Degree</u>	<u>Major Field</u>
Univ. of Alabama in Birmingham	1988-1993	Ph.D.	Computer and Information Sciences
TEACHING POSITIONS AND RANKS HELD			
<u>Institution</u>	<u>Rank</u>	<u>Date</u>	<u>Major Subject</u>
Boğaziçi University	Assist. Prof.	Sept. 1993 – Nov. 1999	Computer Engineering
Boğaziçi University	Assoc. Prof.	Nov. 1999 – Aug 2000	Computer Engineering
Eastern Mediterranean University	Assoc. Prof.	Sept. 2000– Current	Computer Engineering

OTHER WORK EXPERIENCE

- **Founding chairman of Internet Technologies Research Center** at Eastern Mediterranean University (<http://itrc.emu.edu.tr>) (12/2005-2/2007)
- **Part time researcher/consultant at TUBITAK** research center (MAM) (12/95 – 1/98)
- **Gave educational seminars** for Erdemir (Ereğli Demir Çelik) (1999)
- **Performed consulting work** and gave educational seminars on Object-Oriented Analysis and Design for Eczacıbaşı Holding (1998)
- **Part time instructor** at Işık University (Istanbul) by appointment from Boğaziçi University (1998-2000)

TEACHING EFFECTIVENESS

Curriculum Development and Teaching Innovations

- **Defined and taught new graduate course** on Automated Deduction
- **Defined and taught new undergraduate elective course** on Internet Programming
- **Defined new undergraduate elective course** on Modern Programming Platforms

Textbooks and Other Teaching Aids

- **Developed an online tutorial for the ADA '95** programming language.

Courses Taught

- **Undergraduate:** Compiler Construction, Principles of Programming Languages, Discrete Mathematics, Programming Methodologies, Formal Languages and Automata Theory, Database Systems, Algorithms and Data Structures, Introduction to Computation, Internet Programming
- **Graduate:** Automated Deduction, Logic Programming, Advanced Compiler Construction

PROFESSIONAL GROWTH

Journal Papers

- **Integrating Functional, Logic and Object-Oriented Programming Paradigms (Abstract).** In: *The Journal of the Alabama Academy of Science*, Vol. 64, No. 2, page 161 (April 1993) (*Single author*)

- **Implementing Constructor Calls with parameters in ADA'95.** In: *Journal of Object-Oriented Programming*, May 1998, Vol. 11, No. 2, pp. 43-46. (Single author)
- **Business Object-Oriented Analysis and Design Methodology.** In: *Journal of Object-Oriented Programming*, March/April 1999, Vol. 12, No. 1, pp. 59-67. (Single author)
- **XSL Transformations: A delivery medium for executable content over the Internet.** In: *Dr. Dobbs Journal 32 (5): 48 -* , May 2007. (With Ruhsan Onder)

International Conference Papers

- **Conditional Term Rewriting as a Deductive Database Language.** In: *Proceedings of the 1992 Joint International Conference and Symposium on Logic Programming, Deductive Databases Workshop*, pp. 126-135 (1992) (with Barrett R. Bryant)
- **Functional-Logic programming for Smalltalkers: the FLOOP System.** In: *Proceedings of the Tenth International Symposium on Computer and Information Sciences*, pp. 651-658 (1995) (With Barrett R. Bryant, Hakan Akçalar)
- **ROSE: A Practical Higher-Order Functional/Logic Language.** In: *Proceedings of the Eleventh International Symposium on Computer and Information Sciences*, pp. 713-721 (1996) (With Barrett R. Bryant, Ünal Altınay)
- **A Deductive Declarative Object-Oriented Data Model and Query Language based on Narrowing.** In: *Proceedings of the Eleventh International Symposium on Computer and Information Sciences*, pp. 235-244 (1996) (With Barrett R. Bryant, Faik Hakan Bilgen)
- **SSST (State-Space Search Tool): A Probabilistic Forward-Chained Expert System Shell with Full Backtracking.** In: *Proceedings of the Eleventh International Symposium on Computer and Information Sciences*, pp. 395-404 (1996) (Single author)
- **Forward-Chained Rules for Specifying Algorithms.** In: *Proceedings of the Fourteenth International Symposium on Computer and Information Sciences* (1999) (Single author)
- **Distance Education Using XML Technology.** *Proceedings of the 5th International Conference on Information Technology Based Higher Education and Training (ITHET '04), 31 May - 2 June 2004, Istanbul, Turkey.* (With Şenay Kafkas)
- **A Scalable Application Architecture for Composing News Portals on the Internet.** *Proceedings of the 1st International Computer Engineering Conference, New Technologies for the Information Society (ICENCO'2004), Cairo, EGYPT, December 27-30, 2004.* pp. 779-783 (With Serpil Tok)
- **Interpreting Imperative Programming Languages In Extensible Stylesheet Language Transformations (XSLT).** *Proceedings of the IASTED International Conference on Internet and Multimedia Systems and Applications (EuroIMSA 2005), Grindelwald, Switzerland, February 21-23, 2005* (With Ruhsan Onder)
- **An Investigation of the Course-Section assignment problem.** *Proceedings of the 20th International Symposium on Computer and Information Sciences (ISCIS*

- 2005) published as *Lecture Notes in Computer Science LNCS 3733*, pages 874-883, October 26-28, 2005 - Istanbul, Turkey (Single author)
- **A User Friendly Intelligent Algebra Tutor.** *Proceedings of the V. International Educational Technologies Conference, 21 - 23 September 2005, Sakarya - Turkey.* (With Senay Kafkas, Huseyin Yaratan)
 - **Implementation Strategies for “Equation Guru,”** *A User Friendly Intelligent Algebra Tutor.* Accepted to ICEIS 2006, *International Conference on Enterprise Information Systems.* 23-27 May 2006, Paphos, Cyprus. (With Senay Kafkas, Huseyin Yaratan)
 - **XSLT Version 2.0 is Turing-Complete: A Purely Transformation Based Proof.** *Proceedings of the 11th International Conference on Implementation and Applications of Automata.* Aug. 21~23, 2006 (CIAA 2006), Taipei, Taiwan. published as *Lecture Notes in Computer Science LNCS 4094*, pp 275-276. (With Ruhsan Onder)
 - **Two Different Approaches of Modeling the Teacher Relocation Problem in a Constraint Logic Programming System and their Comparison.** *Proceedings of the International Conference on Systems (to be published), Computing Sciences and Software Engineering (SCS2 06), organized as part of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS2E 06), December 4 - 14, 2006.* Presented electronically over the Internet (With Nagehan İlhan)
 - **A Constraint Logic Programming Solution to the Teacher Relocation Problem.** *Proceedings of the 2nd International Computer Engineering Conference - Engineering the Information Society (ICENCO 2006), December 26-28, 2006, Cairo, Egypt.* (With Nagehan İlhan)

Technical Reports

- **An Integrated E-Unification/Narrowing Algorithm.** *Technical Report* at the Department of Computer and Information Sciences, UAB. (1990) (Single author)

Other publications

- **Integrating Functional, Logic and Object-Oriented Programming Programming Language Paradigms with Application to Deductive Databases.** *Ph.D. Thesis, University of Alabama in Birmingham, Computer and Information Sciences Department.* (1993)
- **C++ Programming Guide,** in Turkish, produced to be a chapter of a software quality manual produced at TUBITAK. (1995)

Scholarly Awards

- **Awarded 9-day trip to Paris** by L'alliance Française after being successful in written French examination (1981)

- **Awarded CASP scholarship** for undergraduate studies at the University of Pennsylvania (1983-1987)
- **Awarded Japanese Monbusho Scholarship** as a research student at Ibaraki University (April 1989 – Sept. 1990)

Funded Research Grants

- **Development of a Semantic Web Services Architecture for e-Government applications.** TRNC Ministry of Education research grant. Funded 10,000 YTL – approx. 6800 USD. Duration: June 2006-June 2007.
- **Integration of SSST and ROSE.** Funded (250,000,000TL- approx. 3000USD) by the research fund of Boğaziçi University. Duration: June 1996 - June 1998.
- **Development of an expert system shell with constraint solving capability.** Funded (100,000,000TL approx. 2500 USD) by the research fund of Boğaziçi University. Duration: January-December 1994.
- **Development of benchmark programs for evaluating real-time AI tools.** Performed as part of a research team at Boğaziçi University within the Euclid RTP11.3 "Mission and Battlefield Simulation" Project. Duration: January 1994 - July 1994.
- **Recipient of a student research grant** from the Alabama Academy of Science for furthering work on the Integration of Functional and Logic Programming Languages. (4/91)

Participation in Professional Associations

- Member of the Association for Computing Machinery (ACM)

Professional Activities

- Served on the organizing committee of ISCIS IX, the Ninth International Symposium on Computer and Information Sciences (1994)
- Served on the program committee of various conferences

SERVICE FOR THE UNIVERSITY AND THE COMMUNITY

Committee Assignments

- Member of the faculty search committee. (2002-2003 Academic year)
- Member of Summer Training committee. Re-organized and streamlined the

summer training procedures. (2004-2005)

- Member of committee for writing a thesis guideline for graduate students of the faculty of Engineering. (2004)

Service for the Community

- Gave a tutorial talk Object-Oriented Programming at the 1995 Bilişim activities in Istanbul
- Gave a tutorial talk on Internet Programming at the 2000 Bilişim activities in Istanbul
- Member of the Eastern Mediterranean Primary School-Family Union (2002-2004)