

EBRU CELIKEL

Work Address:

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EDUCATION:

Ege University, Izmir/Turkey, 1991-2004.

- Ph.D. in Computer Science, International Computer Institute (April, 2004).
 - Dissertation: Compression and Modeling of Turkish Texts.
 - GPA: 85.43/100, Graduate Course Work: Parallel Programming, Network Security, Algorithmic Complexity Theory, Fundamentals of Algorithms, Advanced Programming with Java, Advanced Computer Architecture, Computer Network Programming, Psychological Development and Learning, Curriculum Development and Evaluation.
- MBA in Faculty of Economics and Administrative Sciences (August, 2000).
 - Dissertation: The Role of Internet in Modern Marketing Concept: Izmir Organized Industrial Zone Case.
 - GPA: 94.90/100, Graduate Course Work: Marketing Research, Marketing Management, Consumer Behaviour, Production Planning and Control, Management Policies, International Marketing, Sales Management, Advertisement Research, Strategic Human Resources Management, Management Information Systems.
- M.S. in Computer Science, Computer Science Department (August, 1997).
 - Dissertation: Computerized Management Information Systems and Web Design Application of Ege University Faculty of Economics and Administrative Sciences.
 - GPA: 86/100, Graduate Course Work: Information Theory, Computer Security, Performance Analysis, Local Area Networks, Distributed Computer Systems, Cryptology, Software Reliability, Compiler Design.
- BSc. in Computer Engineering, Computer Science Department (July, 1994).

RESEARCH EXPERIENCE:

Postdoctoral Research: Southern Methodist University, Department of Computer Science and Engineering, Dallas, TX, 09/05-present (research advisor: Assoc.Prof.Dr. Suku Nair).

- Security of Linear Error Correction (LEC) codes and their implementation in wireless communication.

RESEARCH INTERESTS

- Security, lossless text compression, cryptology, Linear Error Correction (LEC) codes

TEACHING EXPERIENCE:

Visiting Assistant Professor, Department of Computer Science, Earlham College, Richmond, IN, 07/05-present.

- Teaching Algorithms and Data Structures, Programming Languages, Advanced Programming with C++, Introduction to Cryptology courses, mentoring Content and Pedagogical Groups.

Visiting Assistant Professor, Department of Computer Science, Izmir University of Economics, Izmir, Turkey, 10/04-06/05.

- Teaching Introduction to Computers and Logic Design courses.

Assistant Professor, International Computer Institute, Ege University, Izmir/ Turkey, 08/04-present.

- Teaching Algorithms and Data Structures, Programming Languages, DBMS, Advanced Programming with Java courses, research, faculty board membership, student advisor.

Lecturer, International Computer Institute, Ege University, Izmir/ Turkey, 11/01-08/04.

- Teaching Algorithms and Data Structures, Programming Languages, DBMS courses, research.

Research Assistant, International Computer Institute, Ege University, Izmir/ Turkey, 08/99-11/01.

- Admin of Multimedia and Unix laboratories, teaching assistant for network, Java, DBMS.

Research Assistant, Faculty of Economics and Administrative Sciences, Ege University, Izmir/Turkey, 04/97 -08/99.
• Lecturing Introduction to Computers, admin of PC laboratory.

WORK EXPERIENCE:

System Administrator, Electronics Computers Communications (ECC), Izmir/ Turkey, 02/95 –11/96.
• Admin of 50 user Novell Network.

Summer Intern, NETSIS, Izmir/Turkey, 07/93-09/93.

PUBLICATIONS AND PRESENTATIONS:

- **CELIKEL Ebru**, KARDAS Geylani, “Smart Card Support for PGP Based Secure E-mail”, 4th Int’l Conference on Mobile Systems, Applications, and Services (MobiSys) 2006, Uppsala, Sweden, June 19-22, 2006 (submitted paper).
- **CELIKEL Ebru**, “Potential Women in Science”, InWIC 2006 (Indiana Women in Computing), February 3-4, 2006.
- **CELIKEL Ebru**, DALKILIC M. Emin; "A New Encoding Decoding Scheme for Text Compression with Embedded Security", Journal of Mathematical and Computational Applications, Vol. 9, No. 3, pp. 475-484, December 2004.
- **CELIKEL Ebru**, DALKILIC M. Emin, DALKILIC Gokhan, “Word Based Fixed and Flexible List Compression”, Int’l Symposium on Computer and Information Sciences (ISCIS) XXth, October 26-28 2005, Istanbul/Turkey.
- **CELIKEL Ebru**; “Security Threats Against Information Systems”, International Conference on Business Management & Economics in a Changing World, June 16-19, 2005, Izmir/Turkey.
- **CELIKEL Ebru**; "A Cryptographic Approach to Language Identification: PPM", 7th Int’l Conference on Enterprise Information Systems (ICEIS), May 24-28, 2005, Miami, FL, USA.
- **CELIKEL Ebru**; "Language Discrimination via PPM Model", Int’l Conference on Information Technology (ITCC) 2005, April 4-6, 2005, Las Vegas, NV, USA.
- **CELIKEL Ebru**, KARDAS Geylani, “Realization of a Secure Transmission Platform on A Client/Server Architecture with Smart Card Mobile Environment Supported Asymmetrical Encryption System”, Akademik Bilisim, February 2-4, 2005, Gazientep/Turkey.
- **CELIKEL Ebru**, DALKILIC M. Emin; "Investigating The Effects of Recency and Size of Training Text on Author Recognition Problem", Int’l Symposium on Computer and Information Sciences (ISCIS) XIXth, LNCS Vol. 3280, pp. 21-30, October 27-29, 2004, Antalya/Turkey.
- **CELIKEL Ebru**, DALKILIC M. Emin; "A Preprocessor Adding Security to and Improving The Performances of Arithmetic and Huffman Codings", Advances in Information Systems (ADVIS), Third Biennial Int’l Conference, LNCS Vol. 3261, pp. 420-429, October 20-22, 2004, Izmir/Turkey.
- **CELIKEL Ebru**, DINCER B. Taner; “Improving the Compression Performance of Turkish Texts with PoS Tags”, Int’l Conference on Information and Knowledge Engineering (IKE’04), June 21-24, 2004, Las Vegas, NV, USA.
- **CELIKEL Ebru**, DALKILIC M. Emin; "Experiments on A Secure Compression Algorithm", Int’l Conference on Information Technology (ITCC) 2004, April 5-7, 2004, Las Vegas, NV, USA.
- **CELIKEL Ebru**, DALKILIC M. Emin; "A Security Embedded Text Compression Algorithm", Int’l Symposium on Computer and Information Sciences (ISCIS) XVIIIth, LNCS Vol. 2869, pp. 187-195, November 3-5, 2003, Antalya/Turkey.
- **CELIKEL Ebru**; "The Transition Period of Internet in Commercial World", VIIIth Internet Congress, December 19-21, 2002, Istanbul/Turkey.
- DALKILIC M. Emin, **CELIKEL Ebru**; "Concept of and Experiments on Combining Compression with Encryption", Int’l Symposium on Computer and Information Sciences (ISCIS) XVIIth, pp. 130-134, October 28-30, 2002, UCF, Orlando, FL, USA.
- DALKILIC M. Emin, **CELIKEL Ebru**; "Performance and Sensitivity Analysis of Some Lossless Compression Algorithms", Int’l Symposium on Computer and Information Sciences (ISCIS) XVIth, pp. 375-382, November 5-7, 2001, Antalya/Turkey.
- AKGUNGOR Sedef, **CELIKEL Ebru**; "Internet and Marketing: Izmir Production Industry Case", 5th National Marketing Congress, November 16-18, 2000, Antalya/Turkey.
- **CELIKEL Ebru**, IKIZ A. Salih; "Potential Problems and Solution Proposals for the Female Academic Staff of Ege University", 4th National Women Studies Meeting, September 7-9, 1998, Izmir/Turkey.

Research Projects:

- **CELIKEL Ebru**, KARDAS Geylani; "Realization of a Secure Transmission Platform on A Client/Server Architecture with Smart Card Mobile Environment Supported Asymmetrical Encryption System", Research Project 2004/UBE/001, July 2005.
- DALKILIC M. Emin, **CELIKEL Ebru**, BASGOK Burak; "Realization of a Parallel Computing Platform with Linux Based PC Cluster", Research Project 2002/UBE/001, July 2004.
- ALAKENT Bahar, **CELIKEL Ebru**, GUNGOR Cengiz, YILDIRIM Sule; "The Software Infrastructure Creation for the Development of a Web Based Distance Education System", Research Project 2001/UBE/001, March 2003.
- ALAKENT Bahar, **CELIKEL Ebru**, YILDIRIM Sule; "Organization of the Multimedia Programming Laboratory Using Video Editing Facilities", Research Project 99/UBE/003, December, 2000.
- AKGUNGOR Sedef, **CELIKEL Ebru**, "A New Approach to Marketing Concept: Internet", Research Project, 99/IKT/002, June 1999.

Books:

- KECECIOGLU Tamer, **CELIKEL Ebru**, CINARLI Sinem; "What is Strategy?" Michael PORTER -Translation (in Turkish)-, 1998.

AWARDS AND HONORS:

- TUBITAK (The Scientific and Technical Research Council of Turkey) International Publication Encouragement Award, 2004. – for two different publications-
- EBILTEM (Ege University Science and Technology Center) Publication Award, 2004. –for two different publications-
- TUBITAK (The Scientific and Technical Research Council of Turkey) International Publication Encouragement Award, 2003.
- EBILTEM (Ege University Science and Technology Center) Publication Award, 2003.
- EBILTEM (Ege University Science and Technology Center) Project Competition and Exhibition Participation Award for "Compression with Encryption (CwE) Algorithm", 2003.
- Ege University Department of Computer Science Graduation Degree of Honor Award, 1994.

WORKSHOPS AND VISITS:

- TUSSIDE (MEB-TUBITAK Turkish Industrial Delegation and Management Institute) Strategic Planning Workshop, Ege University, Izmir, Turkey, 06/05.
- An Advanced Course on Contemporary Cryptology, Universitat Politècnica de Catalunya, Barcelona, Spain, 02/04.
- Summer School on Elliptic Curve Essentials and Cryptography, Izmir Institute of High Technology, Izmir, Turkey, 09/03.
- Visiting researcher at University of Central Florida, FL, USA, 01-02/02.
- NATO Training Program, Brussels, Belgium, 12/98.
- Executive Manager Training Course, Izmir Chamber of Commerce, Izmir, Turkey, 11/96 – 03/97.

MEMBERSHIPS:

- IEEE, Izmir Turkish American Association, Izmir French Culture Center

FOREIGN LANGUAGES:

- English – very good
- French – good

HOBBIES:

- Tennis, jogging, horseback riding, skiing, books on philosophy and psychology, cinema