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EDUCATION

1995-2003

Middle East Technical University (METU), Ankara, Turkey,
Computer Education and Instructional Technology Department, Ph.D.

Thesis: An Electronic Performance Support System for Teaching Turkish as a Foreign Language: A Case Study

Turkce Merhaba (Princeton University),

<http://www.princeton.edu/~turkish/practice/tlepss.html>

1988-1991

Middle East Technical University (METU), Ankara, Turkey,
Computer Engineering Department, MS,

Thesis: Dependence Based Program Transformations for Parallelism Enhancement, January 1991

1984-1988

METU, Ankara, Turkey, Mathematics Department, BS

1983-1984

METU, Ankara, Turkey, English Prep. School

1981-1993

Bolu Ataturk Lisesi, High school

PROFESSIONAL WORK EXPERIENCE

2005-Date

Atilim University, Software Engineering Department Asst. Prof. Dr.

2003-2005

Atilim University, Computer Engineering Department Asst. Prof. Dr.

1999-2002

Indiana University Digital Library Program (IUDLP). Analyst/Programmer

Development of a data entry user interface for IU Archives photograph database project, by using Visual Basic with ORACLE.

Developing software for Variations, which makes use of z39.50 protocol and MARC bibliographic record format from the web application of Variations Track Editor. This allowed for a relatively smooth transition from NOTIS to SIRSI Unicorn in VARIATIONS digitizing and reserves programming activities in the Music Library.

Developing a prototype database model with Oracle for Bradley Film Collection database project. The data was taken from the current system's text data, and analyzed. The relationships found according to the data, and it was loaded to Oracle database. A prototype user interface also generated by using Java Servlets, for searching the database.

Developing an installer by using InstallShield Express, for variations project.

Developing a prototype database model with Oracle for Film Literature Indexes. The data was taken from the current system's text data, and analyzed. The relationships found according to the data, and it was loaded to Oracle database. A prototype user interface also generated by using Java Servlets with ORACLE and "Intermedia Text", for searching the database. Information learned through the creation of prototype was critical to the development of a grant application to the NEH for full-scale implementation of a web-accessible Film Literature Index, and the prototype has been made available to grant reviews as a proof of concept.

Developing a data model and importing the current data of the IU Archives photograph database project. Oracle was used as the database with its Intermedia Text product. The user interface developed by using JDBC and SERVLET JAVA programs.

Creating and maintaining an ORACLE database for Digital Library Program. Developing a prototype search user interface for DIDO Image Bank by using IBM's Digital Library database and IBM's NET.DATA product.

Developing a "Track Editor" for Variations project by using Java scripts and PERL.

Developing Variations project's Macintosh version by using Visual C++, and Quick Time.

1993-1997

Prime Ministry of Turkey, Database Administrator and Group Manager and technical member for large-scale database system-purchasing team.

Group leader for a system analysis project part of the organization.

- *System analysis and design for the archiving system of the organization.*
- *Defining computer and software needs of the system.*

Group member for the purchasing team of the organization.

- *Purchasing computer systems,*
- *Purchasing a Relational Database System,*
- *Purchasing a Text Retrieval System,*
- *Installing hardware and software, Designing the system,*
- *Preparing the system for daily use of the organization.*

1991-1993

Datasei Bilgisayar A.S., Software Product Manager

Designing systems (Personnel and payroll system, Stock system, Accounting, Trade Unionism System).

After designing these systems, I worked as group manager of development team to develop these systems by using ORACLE Database Management System and SQL Forms.

Hospital Information Systems (developed by Oracle and Developer 2000).
The system has the following modules; Inpatient, Outpatient, Accounting, Stock, Patient profile.

1989-1991

Datasel Bilgisayar A.S., Programmer

Converting COBOL programs for Prime computers to HP3000 MPE OS COBOL. Converted programs were about:

-*Personnel and payroll system,*

-*Stock system,*

-*Accounting.*

installed these programs to different sites (at least 10 different sites in Turkey) and gave maintenance support.

1987-1988

Koyteks Yatirim Holding, Programmer.

Helping users to use different computer applications,

Developing small applications for specific purposes by BASIC.

Special Projects

Suzan Özel, Nergiz Ercil Çağiltay, Development of a mini grant project Turkish Vocabulary through Pictures, for CARLA University, by using java scripts, April, 2001

News about this site: Central Eurasian Bulletin, Department of Central Eurasian Studies, Indiana University, December 4, 2000

Developing a student testing system through the Internet, by using PERL, 1998, METU, Ankara, Turkey. Some features of the system: Automatic-mail by the system to the user, Building a database with system files on NT environment, Managing multi-user on system files, Storing user profile, Storing user exam results, Reporting user performance.

News about this site: SEM Interaktif Dersane.

Certifications

SUN Corporation

Java Programming Language course (SL-275)

Hewlett-Packard

HP MPE Operating System Courses, HP MPE COBOL,

DIGITAL

Unix user environments and tasks,

Supporting MS Windows NT 3.51 training,

BMC PATROL

Patrol 3.0-product training

ORACLE

Introduction to Oracle,

SQL,

*SQL*Plus,*

PL SQL,

Developer 2000 graphics,

Developer 2000 reports,

Developer 2000 forms,

Procedural Database Options,

Database Administration I,

Database Administration II,

Parallel Systems Administration,

Distributed Systems Administration

PUBLICATIONS

A. Papers in International Journals

A18.

Cagiltay, N. E., Ozcelik, E., Sengul, G., & Berker, M. (2017). Construct and face validity of the educational computer-based environment (ECE) assessment scenarios for basic endoneurosurgery skills, *Surg Endosc.*, 31(11), pp. 4485–4495, DOI 10.1007/s00464-017-5502-4

A17.

Cagiltay, N.E., Ozcelik, E., Ozcelik, N. (2015). *The effect of competition on learning in games. Computers & Education*, 87, 35-41. **(SSCI)**

A16.

Kara, A., **Cagiltay, N.E.**, Dalveren, Y. (2014). *An Enhanced Course in Digital Communications, International Journal of Engineering Education*, 30(4), pp. 1048 - 1059. **(SCI)**

A15.

Cagiltay, N.E., Tokdemir, G., Kilic, O., Topalli, D. (2013). Performing and Analyzing non-Formal Inspections of Entity Relationship Diagram (ERD), *Journal of Systems and Software*, Volume 86, Issue 8, pp. 2184–2195. DOI: 10.1016/j.jss.2013.03.106, **(SCI-Extended)**

A14.

Ozcelik, E., **Cagiltay, N.E.** & Ozcelik, N.S., (2013). The effect of uncertainty on learning in game-like environments, *Computers & Education*, DOI: 10.1016/j.compedu.2013.02.009, Volume 67, pp 12-20. **(SSCI)**

A13.

Cagiltay, N.E., Tokdemir, G., Aydin, E., Kara, A. (2012). Remote laboratory development as an action research: A case study, *Scientific Research and Essays Vol. 7(27)*, pp. 2337-2342, 19 July, 2012, DOI: 10.5897/SRE11.1688, ISSN 1992-2248 ©2012

A12.

Kara, A., Ozbek, M.E., **Cagiltay, N.E.**, Aydin, E. (2011). Maintenance, sustainability and extendibility in virtual and remote laboratories, *Procedia - Social and Behavioral Sciences*, Volume 28, Pages 722-728.

A11.

N. E. Cagiltay, E. Aydin, C. C Aydin, A. Kara, "Seven Principles of Instructional Content Design for a Remote Laboratory: A Case Study on ERRL", *IEEE Transactions on Education*, 54(2), May 2011, pp. 320-327. **(SCI)**

A10.

N. E. Cagiltay, Ozalp-Yaman, S. (2013). "How can we get Benefits of Computer-Based Testing in Engineering Education?", *Computer Applications in Engineering Education*, Published online in Wiley InterScience (www.interscience.wiley.com, DOI: 10.1002/cae.20470, Volume 21, Issue 2, pages 287–293, June 2013. **(SCI)**

A9.

E. Aydın, **N. E. Cagiltay**, (2012). "A New RF and Microwave Engineering Course Enriched With Advanced Technologies", *Computer Applications in Engineering Education* 20(4), pp 634-645, 2012. **(SCI)**

A8.

Cagiltay, N.E., (2008). Using Learning Style Theory in Engineering Education, *European Journal of Engineering Education*, 33(4), 415-424. (<http://www.tandf.co.uk/journals/titles/03043797.asp>)

A7.

Cagiltay, N.E., Aydın, E., Oktem, R., Kara, A., Alexandru, M., Reiner, B. (2009). Requirements on Remote RF Laboratory Applications: An Educators' Perspective, *IEEE Transactions on Education*, 52(1). **(SCI)**

A6.

Alparslan, C., **Cagiltay, N.E.**, Özen, M. Aydın, E. U. Teaching Usage of Equipments in a Remote Laboratory, *Turkish Online Journal of Educational Technology*, TOJET 7(1) (2008). **(SSCI)**

A5.

Cagiltay, N.E., Aydın, E. U., Kara, A. (2007). Remote RF Laboratory Requirements: Engineers' and Technicians' Perspective, *Turkish Online Journal of Distance Education-TOJDE*, 8(4), October 2007 ISSN 1302-6488

A4.

Mishra, A., **Cagiltay, N. E.**, Kilic, O. (2007). Software engineering education: some important dimensions, *European Journal of Engineering Education*, 32(3), 1-13.

A3.

Cagiltay, N.E. (2007). Teaching Software Engineering by Means of Computer-game Development: Challenges and Opportunities, *Brithish Journal of Educational Technology*, 38(3), 405-415. **(SSCI)**

A2.

Cagiltay, N.E., Yildirim, S., Aksu, M. (2006). Students' Preferences on Web-Based Instruction: linear or non-linear. *Journal of Educational Technology and Society*, 9 (3), 122-136. **(SSCI)**

A1.

Cagiltay, N.E. (2004). Developing an Electronic Performance Support System for Students: The Factors That Should Be Considered. *Journal of Interactive Instruction Development*, 16(2).

B. Papers in International Conferences/Symposiums

B71.

Dalveren, G.G.M., **Cagiltay, N.E.** (2017), Predicting Experience Levels of Surgeons by Eye Gaze Data in a 3D Simulation Environmen, 5th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA), Full Paper Proceedings, pp.93-96.

B70.

Topalli, D., Sahinoglu, B.Y. , Senekci, O. , Tasyurek, O.C., **Cagiltay, N.E.** (2017), Skill-Based training: Computer-based and Mobile Environments, 5th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA), Abstract Proceedings, pp.38.

B69.

Topalli, D., Camalan, S., **Cagiltay, N.E.** (2017), Effect of Gender on Performance in a Surgical Simulation Environment, 5th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA), Full Paper Proceedings, pp.130-134.

B68.

D. Topalli, **N.E. Cagiltay** (2017), Measuring Difficulty Levels of Simulation-Based Skill Training Tasks: A Case Study for Endoscopic Surgery, 5th International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA), Full Paper Proceedings, pp.110-115.

B67.

Dalveren, G.G.M., **Cagiltay, N.E.**, Ozcelik, E., Maras, H. (2017). Simulation-Based Environments for Surgical Practice, Proceedings of 2017 4th International Conference on Control, Decision and Information Technologies (CoDIT'17) / April 5-7, 2017, Barcelona, Spain, pp. 1153-1156

B66.

Topalli, D., **Cagiltay, N.E.** (2017). Using Intelligent Support Systems For Endoscopic Surgery Training: Analysis Of Hand Motion, Proceedings of 9th annual International Conference on Education and New Learning Technologies, (EDULEARN, 2017), Barcelona (Spain). 3rd - 5th of July, 2017, pp.6596.

B65.

Topalli, D., **Cagiltay, N.E.**, Ozcelik, E. (2017). Gamification In Neurosurgery Education, Proceedings of 9th annual International Conference on Education and New Learning Technologies, (EDULEARN, 2017), Barcelona (Spain). 3rd - 5th of July, 2017, pp. 6580-84.

B64.

Dalveren, G.G.M., **Cagiltay, N.E.**, Ozcelik, E., Maras, H.H. (2017). Simulation-Based Environments for Surgical Practice, 4th International Conference on Control, Decision and Information Technologies (CoDIT'17) to be held in Barcelona, April 5-7, 2017 at Barcelona, Spain.

B63.

Bagherzadi, N., Borcek, A. O., Tokdemir, G., **Cagiltay, N.**, & Maras, H. H. (2016, October 2-5). Analysis of Neurooncological Data to Predict Success of Operation Through Classification. In Proceedings of the 7th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (pp. 485-486). ACM, Seattle, ABD, POSTER

B62.

Topalli, D., **Cagiltay, N.E.**, (2016). Insights for Instructional System Designers by Understanding the Skill Levels of Endoscopic Surgery Education Programs, Proceedings of ICERI2016 (9th annual International Conference of Education, Research and Innovation) Conference 14th-16th November 2016, Seville, Spain, ISBN: 978-84-617-5895-1, pp. 1635-1641.

B61.

Cagiltay, N.E., Topalli, D., (2016). Understanding Skill Improvements by Practicing the Usage of Surgical Instruments, Proceedings of ICERI2016 (9th annual International Conference of Education, Research and Innovation) Conference 14th-16th November 2016, Seville, Spain, ISBN: 978-84-617-5895-1, pp. 1642-1649.

B60.

Cagiltay, N.E., Topalli, D., Borcek, A.O, Tokdemir, G., Maras, H.H., Tonbul, G. Aydin, E. (2016). Neuronavigation Skill Training Through Simulation: Insights from Eye Data, Proceedings of ICERI2016 (9th annual International Conference of Education, Research and Innovation) Conference 14th-16th November 2016, Seville, Spain, ISBN: 978-84-617-5895-1, pp. 1666-1673.

B59.

Topalli, D. & **Cagiltay, N.E.**, (2016). Understanding The Effect Of Passive View On Surgical Performance In Simulation- Based Endoscopic Surgery Education, Proceedings of ICERI2016 (9th annual International Conference of Education, Research and Innovation) Conference 14th-16th November 2016, Seville, Spain, ISBN: 978-84-617-5895-1, pp. 1650-1658.

B57.

Cagiltay, N.E., Borcek, A.O., Tokdemir, G., Maras, H.H. & Topalli, D. (2016). Problems of Gaining Neuronavigation Skills on Surgical Education Programs: A case

study in Turkey. In Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2016 (pp. 602-607). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE), USA.

B56.

Çagiltay, N.E., Topalli, D., Berker, M. (2016). Virtual Simulation Technologies in Neurosurgery, In E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education, Washington DC, USA, Vol. 2016, No. 1, pp. 608-615

B54.

Börcek, A.O., **Çagiltay, N.E.**, Tokdemir, G., Maras, H., Türk Beyin Cerrahlarının Teknolojiye Ulaşım İmkanları, Türk Nöroşirurji Derneği 30. Bilimsel Kongresi, Türk Nöroşir Derneği 26 (Ek Sayı 2): 2016, sa:106.

B53.

Menekşe, G.G., **Çagiltay, N.E.**, Tokdemir, G. (2015). Patient Safety & Clinical Decision Support Systems (CDSS): A Case Study in Turkey, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015 Grigore T. Popa University of Medicine and Pharmacy, Romania, November 19-21, 2015.

B52.

Çagiltay, N. E., Hanalioğlu, S., Isikay, I., Berker, M. (2015). A Technology Enhanced Endo-neurology education model: A Case study on endoscopic pituitary surgery, 29th Scientific Congress of Turkish Neurosurgical Society, 17-21 April 2015, Antalya, Turkey. The best paper award of the year is given.

Çagiltay, N. E., Hanalioğlu, S., Isikay, I., Berker, M. (2015). Simülasyon teknolojisi ile zenginleştirilmiş endo-nöroşirurji eğitimi modeli: Endoskopik hipofiz cerrahisi için örnek bir çalışma, Türk Nöroşirurji Derneği 29. Bilimsel Kongresi, 17-21 Nisan 2015. Yılın Bildirileri arasında Birincilik Ödülü alınmıştır.

B51.

Menekşe, G. G., **Çagiltay, N. E.**, Özcelik, E. (2015). Personality Type Indicator Models in Serious Games: A case study in a Surgical Navigation Game, ITHET, 14th International Conference on Information Technology Based Higher Education and Training, 2015 - 11-13 June, 2015, Caparica, Lisbon, Portugal

B50.

Tokdemir, G., Altun, G., **Çagiltay, N.E.**, Maras, H.H., Börcek, A. (2015). Multimodal Interaction Flow Representation for Ubiquitous Environments- MIF: A Case Study in Surgical Navigation Interface Design, Springer International Publishing, HCII, 2015.

B49.

Aydin, A., **Cagiltay, N.E.**, Ozcelik, E., Tuner, E., Sahin, H., Tokdemir, G. (2015). GUIs with Haptic Interfaces, Springer International Publishing, HCII, 2015.

B48.

Cagiltay, N.E., Berker, M. Ozcelik, E. (2015). Problems of endoneurosurgery education: a case study in Turkey, 9th International Technology, Education and Development Conference, Madrid, 2nd-4th of March, 2015, **ISBN:** 978-84-606-5763-7, **ISSN:** 2340-1079, Pp. 1410-1420

B47.

Berker, M., **Cagiltay, N.E.**, Isikay, I. (2015). Simulations for Surgical Education: A case study for endoneurosurgery, 9th International Technology, Education and Development Conference, Madrid, 2nd-4th of March, 2015. **ISBN:** 978-84-606-5763-7, **ISSN:** 2340-1079, Pp.1394-1400.

B46.

Cagiltay, N.E. (2014). Endonöroşirürji Cerrahi Eğitimi (ECE) Simülasyon Projesi, Çağrılı konuşmacı, 3. Endoskopik Kafatabanı Cerrahisi Kursu, 12-13 Aralık, 2014, Hacettepe Üniversitesi, Tıp Fakültesi, Ankara Türkiye.

B45.

Berker, M., **Cagiltay, N.E.**, Isikay, I., Tuner, E., Unal, B., Erol, B. (2014). Simulation in Endoneurosurgery Education: a case study in Pituitary Surgery, 3rd Simulation in Medical Education Conference, Hacettepe University, 13-15 November, 2014, Ankara Turkey, SIMEC2014 (http://www.tipegitimi.org.tr/images/SIMEC2014_Program_Details.pdf)

B44.

Borcek, A.O., Maras, H., Tokdemir, G., **Cagiltay, N.E.** (2014) Surgical Navigation Systems in Medical Education, 3rd Simulation in Medical Education Conference, Hacettepe University, 13-15 November, 2014, Ankara Turkey, POSTER.

B43.

Tokdemir, G., **Cagiltay, N.E.**, Kilic, O. (2014). Insights from the Defect Detection Process of IT Experts: A case study on DFD, The Ninth International Conference on Software Engineering Advances, ICSEA 2014, October 12 - 16, 2014 - Nice, France

B42.

Guney, S., **Çagiltay, N.E.**, Tuner, E., Cereci, I. (2014). The Borderline between serious games and simulations , 6th International Conference on Education and New Learning Technologies Barcelona - 7th - 9th of July 2014, Bascelona, Spain, Proceedings Book of EDULEARN14, **ISBN:** 978-84-617-0557-3, pp. 7314-7321, <http://library.iated.org/view/GUNEY2014BOR>.

B41.

Yildiz, E., Bilgen, S., Tokdemir, G., **Çağiltay, N.E.**, and Erturan, N. (2014). Analysis of B2C Mobile Application Characteristics and Quality Factors based on ISO 25010 Quality Model, 11th International Conference on Mobile Web Information Systems (MobiWIS 2014), 27-29 August 2014, also printed in Lecture Notes in Computer Science Volume 8640, 2014, pp 261-274

B40.

Çagiltay, N.E., Cereci, I. (2014). Enhanced IMS Metadata for Surgical Education Simulators, 5th International Future-Learning Conference on Innovations in Learning for the Future 2014: e-Learning May 5-7, 2014, İstanbul, TURKEY

B39.

Eda Topaloglu, E., Topalli, D., **Çagiltay, N.E.** (2014). Designing Serious Games by Considering Gamer Tasks, 5th International Future-Learning Conference on Innovations in Learning for the Future 2014: e-Learning May 5-7, 2014, İstanbul, TURKEY.

B38.

Özçelik, E., **Çagiltay, N. E.**, Sengul, G., Tuner, E., & Unal, B. (2014). The Effect of Split Attention in Surgical Education. In Learning and Collaboration Technologies. Technology-Rich Environments for Learning and Collaboration (pp. 3-10). Springer International Publishing (HCII, 2014. Proceedings of HCI International 2014 Conference, 22-27 June 2014, Greece).

B37.

Sengul, G., **Çağiltay, N. E.**, Özçelik, E., Tuner, E., & Erol, B. (2014). Haptic User Interface Integration for 3D Game Engines. In Human-Computer Interaction. Applications and Services (pp. 654-662). Springer International Publishing. (Proceedings of HCI International 2014 Conference, 22-27 June 2014, Greece).

B36.

Yildiz, E., Bilgen, S., Tokdemir, G., **Çagiltay, N.**, Erturan, Y.N. (2014). Analysis of B2C Mobile Application Characteristics and Quality Factors Based On ISO 25010 Quality Model, IADIS Information Systems, 2014 Conference (IS 2014), 28 February – 2 March, Madrid, Spain.

B35.

Cereci, I., **Çagiltay, N.E.**, Berker, M. (2013), Technology enhanced Surgery Education environments: requirements and system models, The International Workshop on Innovative Simulation for Healthcare, 25-27 Athens, Greece, 2013 proceedings book, pp 78-83.

(<http://toc.proceedings.com/20436webtoc.pdf>)

B34.

Çagiltay N.E., Topalli D., Tokdemir G., and Aykaç Y.E., (2013). Abstract Conceptual Database Model Approach, Proceedings of Science and Information Conference 2013, London, UK, pp. 275-281.

B33.

Erturan, Y., Bilgen, S., Tokdemir, G., **Çagiltay, N.E.**, Yildiz, E., Ozcebe, E. (2013). A Mobile Application Flow Representation for Mutual Understanding of IT and Healthcare Professionals, HCII, 2013. Proceedings of HCI International 2013 Conference, <http://www.hcii2013.org/wednesday>

B32.

Topalli, D. **Çagiltay, N.E.**, (2012). Implementation of Topic Study Activities in Engineering Education, 2nd International Engineering Education Conference (IEEC2012), October 31 - November 3, 2012, Antalya, Turkey

B31.

Ozoran, D., **Çagiltay, N.E.**, Topalli, D. (2012). Using Scratch in introduction to programming Course for Engineering Students?, 2nd International Engineering Education Conference (IEEC2012), October 31 - November 3, 2012, Antalya, Turkey

B30.

Fal, M., **Çagiltay, N.E.**, (2012). How Scartch can benefit in engineering education?, 2nd International Engineering Education Conference (IEEC2012), October 31 - November 3, 2012, Antalya, Turkey

B29.

Çagatay, M., Ege, P., Tokdemir, G., **Çagiltay, N.E.**, (2012). A serious game for speech disorder children therapy, 7th International Symposium on Health Informatics and Bioinformatics (HIBIT), Nevsehir, Turkey, April, 2012, pp. 18-23.

B28.

Erturan, Y.N., Tokdemir, G., **Cagiltay, N.E.**, Yılmaz, E. (2012). A Mobile Application Flow Representation to Ensure Mutual Understanding of IT Professionals and Healthcare Professionals during Mobile Healthcare Application Development Process, The International Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics (HI-BI-BI 2012), August, 2012, Istanbul, Turkey.

B27.

Tokdemir,G., **Cagiltay, N.E.**, Kilic, O. (2012), How Engineers Understand Entity Relationship Diagrams(ERD): Insights from eye tracker data, IADIS International Conference Information Systems, March 2012, F088.

B26.

Kara, A., **Cagiltay, N.E.**, Dalveren, Y. 2011. Development of a Digital Communications Course Enriched By Virtual and Remote Laboratory Tools, ITHET 2011, 10th International Conference on Information Technology Based Higher Education and Training, August 4-6, 2011, Kusadasi, TURKEY

B25.

Kara, A., Ozbek, M.E., **Cagiltay, N.E.**, Aydin, E. (2011). Maintenance, Sustainability and Extendibility in Virtual and Remote Laboratories (VRL), Academic World Education & Research Center, World Conference on Educational Technology Researches.

B24.

Cagiltay, N. & Gökdal, G. (2011). What Do Computer Games Promise for Engineering Students. *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2011*. Chesapeake, VA: AACE

B23.

Cagiltay, N., Aydin, E., Kara, A., Erdem, C. & Ozbek, M.E. (2011). Virtual or Remote Laboratory Why. In T. Bastiaens & M. Ebner (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2011* (pp. 3772-3777). Chesapeake, VA: AACE.

B22.

Alok Mishra, **Nergiz Ercil Çağiltay**, Some Important Dimensions For Software Engineering Education Curriculum, Turkey's vision 2023 conference series, International Engineering Education Conference, November 4-6, 2010, Antalya, Turkey.

B21.

Erdem Özyurt, Elif Aydın and **Nergiz Ercil Çağıltay**, Instructional Approaches in a RF and Microwave Engineering Course, Turkey's vision 2023 conference series, International Engineering Education Conference, November 4-6, 2010, Antalya, Turkey.

B20.

Ali Kara, Cihangir Erdem, Mehmet Efe Özbek, **Nergiz Ercil Çağıltay**, Elif Aydın , A Web Based Training Module For Teaching Digital Communications, Turkey's vision 2023 conference series, International Engineering Education Conference, November 4-6, 2010, Antalya, Turkey.

B19.

Ali Kara, Aydın, E., Ozbek,M.E., **Cağıltay**, N.E. (2010). Design and development of a remote and virtual environment for experimental training in Electrical and Electronics Engineering, 9th International Conference on Information Technology Based Higher Education and Training ITHET 2010, 29th April - 1st May 2010, Cappadocia, TURKEY

B18.

Özalp-Yaman, Ş. **Çağıltay**, N.E. (2010). Paper-Based versus Computer-Based Testing in Engineering Education, IEEE EDUCON 2010 Conference, p.386, Madrid.

B17.

Çağıltay, N.E., Aydın, E., Kara A. (2010). Principles for the Design of a Remote Laboratory: A Case Study on ERRL, IEEE EDUCON 2010 Conference, p.235, Madrid.

B16.

Aydın, E., **Çağıltay**, N.E. (2010). Use of Advanced Technologies in a RF and Microwave Engineering Course, IEEE EDUCON 2010 Conference, p.222, Madrid.

B15.

Tokdemir, G., **Çağıltay**, N.E. (2010). A Concept Map Approach for Instruction to Computer Engineering Course Curriculum, IEEE EDUCON 2010 Conference, p.104, Madrid.

B14.

Özdogru, B., Dere, E., İbiş, Ö., Kutlu, G., Öngen, Ç., Çağıltay, N.E. (2008). Moodle ÖYS'de Üst Veri Kullanımına Yönelik Model Önerisi, Future Learning Conference Sa: 215-222, March 26-28, İstanbul, Türkiye

B13.

Oktem, R., Aydın, E., **Cağıltay**, N, "An RFID Based Location Finding and Tracking with Guidance", 4th IEEE International Conference on Wireless Comm., Networking and Mobile Computing, WICOM 2008, October 12-14, Dalian, China.

B12.

Öktem, R. Aydın, E. **Çağiltay, N. E.** (2008). An Indoor Navigation Aid Designed for Visually Impaired People The 34th Annual Conference of the IEEE Industrial Electronics Society, IECON 2008 November 10-13, Orlando, USA.

B11.

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I. THESIS SUPERVISED

I20.

Gonca Gökçe Menekşe Dalveren (2017). Monitoring Through Eye-Movement Data In Context-Aware Adaptive Software Systems: A Case Study On Endo-Neurosurgery Training Programs, Department of Software Engineering, **PhD**

I19.

Burak Gökberk Eyüboğlu (2016). Developing a measure to better understand the handedness skill levels for designing simulation-based systems, Atılım University, Department of Computer Engineering, **BS**

I18.

Sinem Güney (2015). Understanding the effect of serious games on surgical education with respect to simulation environments, Atılım University, Information Technology Service Management, **BS**

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Ceylan Dalgıç (2014). A home-based support environment for cerebral palsy treatment, Atılım University, Information Technology Service Management, **BS**

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Eda Topaloğlu (2014). A task flow design tool for serious games: an extended version of uml-ad (uml-ade), Department of Information Systems Engineering, **BS**

I15.

Damla Topalli (2013). A Database Design Methodology for Complex Systems, Atilim University, Computer Engineering, **BS**

I14.

Mehmet Çağatay (2012). A Methodological Approach for Software Development: An Application for language disorders, Atilim University, Computer Engineering, **BS**

I13.

Bora Kayhan (2009). Car Plate Recognition, Atilim University, Computer Engineering, **BS**

I12.

Leyla Öksüz, (2009). Games For Health By Using Augmented Reality, Atilim University, Computer Engineering, **BS**

I11.

Alparslan, Ceren, (January, 2009), Development of an Electronic Performance Support System for Training People on Radio Laboratory Equipment, Atilim University, Computer Engineering, **BS**

I10.

Gökdal, Gökçer, (December, 2008), Developing and Using a Computer Game for Engineering Education, Atilim University, Computer Engineering, **BS**

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Yeşiltan, Yelda, (August, 2008). Line Of Code, Database Design and Cost Estimation Relation of a Software, Atilim University, Software Engineering, **BS**

I8.

Aydın, Çiğdem Cansu, (August, 2008). Developing A Course Scheduling System By Using Genetic Algorithm, Atilim University, Computer Engineering, **BS**

I7.

Turkmen, Guzin (August, 2007). Developing a Data Warehouse For a University Decision Support System, Atilim University, Computer Engineering, **BS**

I6.

Kilincarslan, Mustafa (August, 2007). Implementation of A Path Finding Algorithm for Blind Navigation Atilim University, Computer Engineering, **BS**

I5.

Aydogdu, Unal (June, 2007). Gains of Progression of A Personnel Management System to E-Government Environment, Atilim University, Computer Engineering, **BS**

I4.

Özmert, Murat (June, 2007). Developing an Automatic Metadata Extraction System from the Electronic Documents (Metex), Atilim University, Software Engineering, **BS**

I3.

Öztürk, Kadir, Kansu (September, 2006). Flexible Database Design for Enterprise Resource Planning (ERP) Applications, Atilim University, Computer Engineering, **BS**

I2.

Özdoğru, B. (June 2006). Developing an Environment for Educational Meta-Data: Metaxml, Atilim University, Computer Engineering, **BS**

I1.

Bozlu, H. (June 2005). AR Project: A Generic System for Augmented Reality Applications, Atilim University, Computer Engineering, **BS**

L. PROJECTS INVOLVED IN

L8.

HiCure Project, Sağlık Bilişimi Entegre Programında Mükemmeliyet, EU, 1000000 Euro, 2015-2018, Araştırmacı

L7.

Bilişim ile Girişimci Kadın (BGK). Temmuz 2016-Temmuz 2017. Destekleyen Kuruluş: Ankara Kalkınma Ajansı, Destek Tutarı: 120.000 TL. Projede MOOC kapsamında 12 saatlik bir eğitim programını da kapsayan, yüz-yüze ve çevrim-için eğitim ortamlarında kadınların girişimcilik konularında eğitilmeleri sağlanacaktır. Bu eğitim program sonucunda yapılacak olan değerlendirmeler sonucunda bir sertifika verilerek Türkiye Bilişim Derneği (TBD) bünyesinde oluşturulacak olan e-ticaret ortamında bilgiye dayalı tecrübe ve birikimlerini sermayeye dönüştürerek ail eve ülke ekonomisine katkı vermeleri desteklenecektir. TBD-Ankara Şubesi adına Proje Yöneticisi.

L6.

Surgical Instrument-Guided Robot Assisted Endoscope Control System (NeuRoboScope) Project, aims to develop an innovative robotic system to support surgical operations. The project is funded by the Scientific and Technological Research Council of Turkey (Tübitak-1003), I am involved as researcher in this project, Project Duration: 2015-2017. The project budget is around \$500K. (1.4 milyon TL)

Cerrahi Aletlerle Yönlendirilebilen Robot Yardımlı Endoskop Kontrol Sistemi (NeuRoboScope) Projenin amacı, hipofiz bezinden kaynaklanan tümörlerin cerrahisi sırasında, bu işlemde kullanılan görüntüleme aracını (endoskop) cerrahın istediği şekilde yönlendirilmesine yarayan özel bir robotik sistemin geliştirmesidir. Proje 2015-2017 yılları arasında Tübitak 1003 desteği ile gerçekleştirilmektedir. Proje bütçesi, 1.4 milyon TL. Projede araştırmacı olarak görev almaktayım, geliştirilecek olan sistemin simülasyon ortamında test edilmesi ve robotik system ile cerrah arasındaki iletişim ve yönlendirme konusunda araştırmaların yapılmasından sorumluyum.

L5.

Surgical Navigation System (CAN) Project, funded by the Scientific and Technological Research Council of Turkey (Tübitak-1003-113S094), 2013-2016, Project Manager

CerrAhi Navigasyon Sistemi (CAN) Projesi, Tübitak-1003 desteği, 2013-2016, Proje Yürütücüsü, 113S094

L4.

Endoscopic Surgical Simulator (ECE) Project, funded by the Scientific and Technological Research Council of Turkey (Tübitak-1001-112K287), 2012-2015, Project Manager

Endoskopik Cerrahisi Eğitimi (ECE)'nde Teknoloji ile Zenginleştirilmiş Ortamların Etkinliğinin Araştırılması Projesi, Tübitak-1001 2012-2015, Proje Yöneticisi, 112K287

L3.

Image processing techniques for cell analysis funded by Turkish development Agency, DPT, 2006, Researcher.

İmge İşleme Tabanlı Otomatik Hücre Analiz Sistemi-Toma Kullanılarak Boya Dışlama Esaslı Hücre Sayımı, Canlılık Sayımı, ve Hücre Morfolojisi Analizi, Supported By DPT, 2006, arařtırmacı.

L2.

ERRL: European Remote Radio Laboratory, Supported By Leonardo Da Vinci, Community Vocational Training Action Programme, Second phase: 2000-2006, <http://eee.atilim.edu.tr/research/errl.htm>, <http://errlmoodle.atilim.edu.tr/>, Çalıřma Paketi Yöneticisi., <http://eee.atilim.edu.tr/en/avrupa-uzaktan-radyo-laboratuvari>, (Bütçe: Euro 516,000).

L1.

Oktem, R. Aydin, E.U., Çağiltay, N. E. PUSULAL: A Compass to Aid the Visually Impaired in Shopping Centers, Sponsored by, the Scientific and Technological Research Council of Turkey, <http://eee.atilim.edu.tr/research/pusulal.htm>, Arařtırmacı

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