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RESEARCH INTERESTS

- Optical Communication Networks
- Survivable Communication Networks
- Multimedia Security
- Data and System Security
- Scalable Video Coding (H.264 SVC)

PUBLICATIONS

Gül Boztok Algin, E. Turhan Tunali, A Comparative Path Establishment Study on Routing Performance of MLR WDM Optical Networks, International Journal of Communication Systems, *accepted 2018*.

Gül Boztok Algin, E. Turhan Tunali, A Study on Line Rate Neighboring for MLR WDM Optical Networks, 2nd International Conference on Engineering Technology and Innovation (ICETI), March 2018, Budapest, Hungary.

Gül Boztok Algin, E. Turhan Tunali, A Dynamic Line Rate Assignment Strategy for MLR WDM Optical Networks, 5th International IEEE Black Sea Conference on Communications and Networking (IEEE BlackSeaCom), June 2017, İstanbul, Türkiye.

Gül Boztok Algin, E. Turhan Tunali, A Cost Efficient Line Rate Assignment Strategy for MLR WDM Optical Networks, 19th International Conference on Optical Networks Design and Modeling (ONDM), May 2015, Pisa, Italy, pp.80-85; doi:10.1109/ONDM.2015.7127278.

Tarık Kışla, Bahar Karaoğlan, **Gül Boztok Algin**, Cemre Candemir, Harmanlanmış Öğrenme Ortamında Moodle Platformunun Kullanılması ile ilgili Paydaş Görüşlerinin İncelenmesi, (in Turkish), Eğitim ve Öğretim Araştırmaları Dergisi (Journal of Research in Education and Teaching), volume.3 issue.4 paper no.15 pp.154-167, 2014, ISSN: 2146-9199.

Tarık Kışla, Bahar Karaođlan, **Gül Boztok Algin**, Cemre Candemir, Harmanlanmış Öğrenme Ortamında Moodle Platformunun Kullanılması ile İlgili Paydaş Görüşlerinin İncelenmesi, (in Turkish), World Conference on Educational and Instructional Studies (WCEIS), November 2014, Antalya, Türkiye.

Bahar Karaođlan, Cemre Candemir, Elif Haytaoglu, **Gül Boztok Algin**, Sercan Demirci, Using Twitter as a Diagnostic Teaching and Learning Assessment Tool, 25th Annual Conference of European Association for Education in Electrical and Information Engineering (EAEEIE) 2014, Çeşme, İzmir, TÜRKİYE, pp.73-76; doi:10.1109/EAEEIE.2014.6879390.

Gül Boztok Algin, E. Turhan Tunali, Dedicated Path Protection in Mixed-Line-Rate Optical WDM Networks, (in Turkish), 21st Signal Processing and Communications Applications Conference (SIU) 2013, Girne, KKTC, pp.1-4; doi:10.1109/SIU.2013.6531303.

Gül Boztok Algin, E. Turhan Tunali, Scalable Video Encryption of H.264 SVC Codec, Journal of Visual Communication and Image Representation volume.22 issue.4 pp.353-364 year. May 2011; doi:10.1016/j.jvcir.2011.02.005.

Sinem Aslan, **Gül Boztok Algin**, H.264 Ölçeklenebilir Video Kodlayıcısı için Kodlama Parametreleri ve Başlıca Kodlama Parametrelerinin Kodlanmış Video Kalitesi Üzerindeki Etkileri, (in Turkish), Technical Report; 10.13140/RG.2.1.4509.3925; 2008.

Gül Boztok Algin, E. Turhan Tunali, Kodlanmış Video Verisinin Gizlilik Gereksinimleri ve Video Şifreleme Algoritmaları, (in Turkish) In proceedings of the Academic Informatics 2007, Kütahya, Türkiye, pp.87-94.

DISSERTATION & THESIS

Boztok Algin, G.; "Survivability of Optical Networks for High Availability", 2017, Ph.D. Dissertation, Ege University, Türkiye, 130 pages (in Turkish).

Boztok Algin, G.; "A Video Encryption Study Designed for H.264 Scalable Video Codec (SVC) with Layered Security Support", 2007, M.Sc. Thesis, Ege University, Türkiye, 75 pages (in Turkish).

Boztok, G., Kayalar, C. and Kapukaya, Ş.; "Ticket Reservation and Sales Automation", 2004, B.Sc. Thesis, Dokuz Eylül University, Türkiye, 82 pages.

PROFESSIONAL ACTIVITIES

Reviewer for: [Signal Processing: Image Communication](#), Elsevier
[Journal of Engineering and Computer Innovations](#)
[Pamukkale University Journal of Engineering Sciences](#)

**Organizing
Committee
Member of:** 25th European Association for Education in Electrical and Information
Engineering (EAEEIE) Annual Conference, May 30-June 1, 2014, Izmir,
Turkiye.

EDUCATION

Ph.D. (2007 - 2017)

Ege University, International Computer Institute, İzmir, TURKIYE
(GPA: 87,75 / 100)

Graduate Dissertation:

Survivability of Optical Networks for High Availability (Yüksek Yararlanırlık için Optik MLR Ağlarda Kalımlılık Sağlanması): In this thesis, solutions are proposed for the survivable routing, line rate and wavelength assignment problem in mixed line rate wavelength division multiplexed optical networks. The focus of the solutions is to reduce the communication cost and the traffic blocking by increasing the effectiveness of resource allocation.

M.Sc. (2004-2007)

Ege University, International Computer Institute, İzmir, TURKIYE
(GPA: 87,13 / 100)

Graduate Thesis:

A Video Encryption Study Designed for H.264 Scalable Video Codec (Svc) With Layered Security Support (Ölçeklenebilir H.264 Video Kodlayıcısı İçin Seviyelendirilebilir Güvenlik Sağlayan Bir Video Şifreleme Çalışması): In this thesis, an efficient video encryption study with layered security and scalable quality support is presented. This study is developed with the consideration of security requirements of video data. Algorithm suitably designed for H.264 Scalable Video Codec (SVC) is embedded within the codec's software JSVM v.6.8.2.

B.Sc. (1999-2004)

Dokuz Eylül University, Faculty of Engineering,
Computer Engineering Department, İzmir, TURKIYE
(GPA: 2,81 / 4) (Educational Language: English)

Graduate Thesis:

Bilet Rezervasyon ve Satış Otomasyonu: Şehirlerarası otobüs şirketleri için tasarlanmış bilet rezervasyon ve satış otomasyonudur. MSF Bilgi Sistemleri A.Ş. tarafından teknik olarak desteklenmiştir. Yapılan ilk elemeyi geçerek, 30 Nisan 2004 tarihinde gerçekleştirilen

Üniversitelerarası Microsoft .NET Proje Yarışması'na davet edilmiştir.

High School (1992 - 1999)

İzmir Özel Tevfik Fikret Lisesi – Fen Lisesi

(GPA: 4.61 / 5) (Educational Language: French)

**WORK
EXPERIENCE**

2005 - *till* (**Research Assistant**)

Ege University, International Computer Institute

Interests:

- Optical Communication Networks
- Algorithm Complexity Theory
- Multimedia Security
- Network Security
- Cryptosystems and Cryptoprotocols
- Fundamental Algorithmic Techniques
- Video Coding

2018 – *till* (**Part-Time Lecturer**)

Izmir University of Economics

Courses:

- CE308 Computing Theory, Faculty of Engineering, Softw. Eng.
- BILT100 Intr. to Comp. and Inform. Tech., Vocational School.

2003 Summer (**Attendee**)

Cisco Networking Academy Program – CCNA given by E.Ü.
Bilgisayar Araştırma ve Uygulama Merkezi.

2003 Summer (**Intern**)

Vestel Elektronik Sanayi ve Ticaret A.Ş.

Organize Sanayi Bölgesi / MANİSA

Subjects:

- Software and quality test and verification,
- Fluke 54200 TV signal generator
- Embedded Software

2003 Spring (**Volunteer**)

E.U. İlaç Geliştirme ve Farmakokinetik Araştırma - Uygulama Merkezi
(ARGEFAR) Bilgi İşlem Grubu

2002 Summer (**Intern**)

Teba GÜNKOL Güneş Enerjisi ve Klima Sanayi A.Ş.

Gürçürpü Köyü Menderes / İZMİR

Subjects:

- Microsoft Share Point Portal Server installation and maintenance
- Update works on Intranet site
- Network applications

GRADES

ALES 2008 Fall
SAY - 91.138; SÖZ - 94.636; EA - 92.989

ÜDS 2007 Spring
English in Natural and Applied Science - 86.250

AWARDS

(2011) TUBITAK-ULAKBIM International Scientific Publication Award
(2011) EBILTEM Publication Award
(2011) TOP 25 Hottest Articles in Computer Science, Journal of Visual Communication and Image Representation, full year 2011.

PERSONAL INFORMATION

Nationality	Republic of Türkiye
Birth Date, Place	26.12.1980, İzmir
Gender	Female
Marital Status	Married
Foreign Languages	French, English

REFERENCES

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