

İLKER ÖZÇELİK

ASST. PROF.

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International Researcher IDs

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Yoksis Researcher ID: 238463

Learning Knowledge

Doctorate 2010 - 2015	Clemson University, Türk Dili-Edebiyatı Araştırma-Uygulama M, Elektrik Mühendisliği, United States Of America
Postgraduate 2008 - 2010	Syracuse University, Türk Dili-Edebiyatı Araştırma-Uygulama M, Elektrik Mühendisliği, United States Of America
Undergraduate 2000 - 2005	Marmara University, Faculty Of Technical Education, Elektronik - Haberleşme Eğitimi, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, DDoS Attack Detection and Mitigation, Clemson University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2015
Postgraduate, Voice Activity Detection Using Stochastic Resonance, Syracuse University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2010

Academic Titles / Tasks

Assistant Professor 2019 - Continues	Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ
Assistant Professor 2018 - 2019	Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü
Assistant Professor 2016 - 2018	Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği

Research Assistant PhD
2015 - 2016

Recep Tayyip Erdogan University, Mühendislik Fakültesi, Elektrik - Elektronik
Mühendisliği

Supported Projects

1. ÖZÇELİK İ., TUBITAK Project, Altın Çağ'ı Kodluyorum, 2018 - 2018
2. ÖZÇELİK İ., Other International Funding Programs, Internet Freedom for West Africa Project, 2012 - 2016
3. ÖZÇELİK İ., Other International Funding Programs, EAGER-GENI Experiments on Network Security and Traffic Analysis Project, 2010 - 2012

Awards

1. ÖZÇELİK İ., Best Idea Award by both peers and faculty (Group Project), DFG/GENI 1st Doctoral Consortium, March 2011

Scholarships

2219 YURT DIŞI DOKTORA SONRASI ARAŞTIRMA BURSUSU, TUBITAK, 2018 - 2020
YLSY, Ministry of Education, 2007 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Distributed Denial of Service (DDoS): A History**
Brooks R. R., Yu L., ÖZÇELİK İ., Oakley J., Tusing N.
IEEE ANNALS OF THE HISTORY OF COMPUTING, vol.44, no.2, pp.44-54, 2022 (SCI-Expanded)
2. **Stealthy Domain Generation Algorithms**
Fu Y., Yu L., Hambolu O., Ozcelik I., Husain B., Sun J., Sapra K., Du D., Beasley C. T., Brooks R. R.
IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, vol.12, no.6, pp.1430-1443, 2017 (SCI-Expanded)
3. **Deceiving entropy based DoS detection**
Oezcelik I., Brooks R. R.
COMPUTERS & SECURITY, vol.48, pp.234-245, 2015 (SCI-Expanded)

Articles Published in Other Journals

1. **Siber Terör ve DDoS**
ATASEVER S., ÖZÇELİK İ., SAĞIROĞLU Ş.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, pp.227-233, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Distributed Denial of Service Attacks: Real-world Detection and Mitigation**
ÖZÇELİK İ., BROOKS R. R.
Chapman and Hall/CRC, New-York, 2020

2. **Target tracking with self-organizing distributed sensors**

Brooks R. R., Griffin C., Friedlander D. S., Koch J. D., ÖZÇELİK İ.

in: Distributed Sensor Networks, Second Edition: Image and Sensor Signal Processing, Iyengar S. S., Brooks R. R., Editor, Crc Press, Boca Raton, FL, pp.131-189, 2012

Refereed Congress / Symposium Publications in Proceedings

1. **An Overview of Cryptographic Accumulators**

Ozcelik I., Medury S., Broadus J., Skjellum A.

7th International Conference on Information Systems Security and Privacy (ICISSP), ELECTR NETWORK, 11 - 13 February 2021, pp.661-669

2. **CryptoRevocate: A Cryptographic Accumulator based Distributed Certificate Revocation List**

ÖZÇELİK İ., Skjellum A.

IEEE 11th Annual Computing and Communication Workshop and Conference (CCWC), ELECTR NETWORK, 27 - 30 January 2021, pp.865-872

3. **MARS: Machine Learning Based Adaptable and Robust Network Management for Software-defined Networks**

KANDAH F., ÖZÇELİK İ., HUBER B.

IEEE CCWC 2020, Las Vegas, United States Of America, 6 - 08 January 2020

4. **TRCyberLab: An Infrastructure for Future Internet and Security Studies**

Ozcelik I., AKLEYLEK S., ÖZÇELİK İ.

6th International Symposium on Digital Forensic and Security (ISDFS), Antalya, Turkey, 22 - 25 March 2018, pp.431-435

5. **Digital Freedom and Barriers**

ÖZÇELİK İ.

International Workshop Series on Digital Transformation and Artificial Intelligence, 28 December 2017

6. **Detection and Mitigation of DDoS Attacks in Cyber Space**

ÖZÇELİK İ.

6th International Certificate Program on: International Cyber Security Workshop Certificate Program, 23 - 27 May 2016

7. **Cusum - Entropy: An efficient method for DDoS attack detection**

ÖZÇELİK İ., Brooks R. R.

4th International Istanbul Smart Grid and Cities Congress and Fair, İstanbul, Turkey, 20 - 21 April 2016, pp.1-5

8. **Cusum - Entropy: An efficient method for DDoS attack detection**

Ozcelik I., Brooks R. R.

4th International Istanbul Smart Grid Congress and Fair (ICSG), İstanbul, Turkey, 20 - 21 April 2016, pp.85-89

9. **Deceiving Entropy Based DoS Detection**

Oezcelik I., Brooks R. R.

Conference on Signal Processing, Sensor/Information Fusion, and Target Recognition XXIII, Massachusetts, United States Of America, 5 - 08 May 2014, vol.9091

10. **Operational system testing for designed in security**

Özcelik I., Brooks R. R.

8th Annual Cyber Security and Information Intelligence Research Workshop: Federal Cyber Security R and D Program Thrusts, CSIRW 2013, Oak Ridge, TN, United States Of America, 8 - 10 January 2013

11. **DoS Detection is Easier Now**

Ozcelik I., Fu Y., Brooks R. R.

2nd GENI Research and Educational Experiment Workshop (GREE), Utah, United States Of America, 20 - 22 March 2013, pp.50-55

12. **Performance Analysis of DDoS Detection Methods on Real Network**

ÖZÇELİK İ., Brooks R. R.

The First GENI Research and Educational Experiment Workshop, Los Angeles, Ca, United States Of America, 15 - 16 March 2012, pp.1-4

13. **Security experimentation using operational systems**

Özçelik I., Brooks R. R.

7th Annual Cyber Security and Information Intelligence Research Workshop: Energy Infrastructure Cyber Protection, CSIRW11, Oak Ridge, TN, United States Of America, 12 - 14 October 2011

14. **Noise Tolerant Symbolic Learning of Markov Models of Tunneled Protocols**

Bhanu H., Schwier J., Craven R., Ozcelik I., Griffin C., Brooks R. R.

7th IEEE International Wireless Communications and Mobile Computing Conference (IWCMC), İstanbul, Turkey, 4 - 08 July 2011, pp.1310-1314

Academic and Administrative Experience

2019 - Continues	Head of Department	Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ
2017 - 2019	Head of Department	Recep Tayyip Erdogan University, Mühendislik Fakültesi, Bilişim Sistemleri Mühendisliği Bölümü

Memberships / Tasks in Scientific Organizations

Bilgi Güvenliği Derneği, Member, 2017 - Continues

ACM, Member, 2014 - Continues

IEEE, Member, 2009 - Continues

Scientific Research / Working Group Memberships

YÖK Siber Güvenlik Çalışma Grubu, Yükseköğretim Kurulu, Turkey, N/A, 2017 - 2018

Metrics

Publication: 20

Citation (WoS): 57

Citation (Scopus): 87

H-Index (WoS): 4

H-Index (Scopus): 4

Congress and Symposium Activities

International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism, Attendee, Ankara, Turkey, 2018

International Congress on Big Data, Deep Learning and Fighting Cyber Terrorism, Session Moderator, Ankara, Turkey, 2018

2018 6th International Symposium on Digital Forensic and Security (ISDFS), Attendee, Antalya, Turkey, 2018

International Workshop Series on Digital Transformation and Artificial Intelligence, Invited Speaker, İstanbul, Turkey, 2017

International Workshop Series on Digital Transformation and Artificial Intelligence, Attendee, İstanbul, Turkey, 2017

3rd Cyber Warfare and Security, Attendee, Ankara, Turkey, 2017

ISCTurkey 2017, Attendee, Ankara, Turkey, 2017

ISCTurkey 2017, Session Moderator, Ankara, Turkey, 2017

Siber Güvenlik Ekosisteminin Geliştirilmesi ve Kümelenme, Attendee, Ankara, Turkey, 2017

YÖK Siber Güvenlik Çalışma Grubu Toplantısı, Attendee, Turkey, 2017

6th International Certificate Program on: International Cyber Security Workshop Certificate Program, Attendee, Turkey, 2016

6th International Certificate Program on: International Cyber Security Workshop Certificate Program, Invited Speaker, İstanbul, Turkey, 2016

4th International Istanbul Smart Grid and Cities Congress and Fair, Attendee, İstanbul, Turkey, 2016

Signal Processing, Sensor/Information Fusion, and Target Recognition XXIII. SPIE, Attendee, Maryland, United States Of America, 2014

Second GENI Research and Educational Experiment Workshop, Attendee, United States Of America, 2013

The First GENI Research and Educational Experiment Workshop, Attendee, California, United States Of America, 2012

Wireless Communications and Mobile Computing Conference (IWCMC), Attendee, --Seçiniz--, Turkey, 2011

DFG/GENI 1st Doctoral Consortium, Attendee, United States Of America, 2011

Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Communication Networks, Signal Processing, Signal Processing for Communication, Speech Analysis and Processing Techniques, Computer Sciences, Information Security and Reliability, Information System Reliability, Engineering and Technology