

Assoc. Prof. METE EMİNAĞAOĞLU

Personal Information

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Tınaztepe Kampusu 35390 İzmir/TÜRKİYE



International Researcher IDs

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Publons / Web Of Science ResearcherID: ABC-8456-2020

ScopusID: 36348403000

Yoksis Researcher ID: 23771

Education Information

Doctorate, Trakya University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey
2008 - 2011

Postgraduate, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences,
Bilgisayar Yazılımı (YI) (Tezli) (İngilizce), Turkey 1996 - 1999

Undergraduate, Ege University, Faculty Of Engineering, Bilgisayar Mühendisliği Bölümü,
Turkey 1990 - 1996

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Cyber Security, ISO 27001:2005 Lead Auditor, BSI-Global (<http://www.bsi-global.com>), 2006

IT, CISA (Certified Information Systems Auditor), Information Systems Audit and Control Association
(<http://www.isaca.org>), 2005

Cyber Security, CISSP (Certified Information Systems Security Professional) , International Information Systems Security
Certification Consortium (<http://www.isc2.org>), 2004

Dissertations

Doctorate, Özdevimli öğrenme yaklaşımı ile bilgi güvenliği risklerinin nitel değerlendirilmesine yönelik bir model, Trakya
University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2011

Postgraduate, A Genetic algorithmic approach to the differential and linear cryptanalysis, Izmir Institute Of Technology,
Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Yazılımı (YI) (Tezli) (İngilizce), 1999

Research Areas

Information Security and Reliability, Computer Learning, Natural Language Processing, Text/Document Processing, Pattern Recognition and Image Processing, Neural Networks

Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2022 - Continues
Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2016 - 2022
Assistant Professor, Yasar University, Faculty Of Engineering, Department Of Software Engineering, 2012 - 2016
Lecturer, Yasar University, Vocational School, Department Of Computer Technologies, 2009 - 2012
Visiting Lecturer, Izmir University Of Economics, Vocational School, Department Of Computer Technologies, 2006 - 2009
Research Assistant, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, 1996 - 1999

Academic and Administrative Experience

Internship Committee Member, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2017 - Continues
Erasmus Program Department Coordinator, Dokuz Eylul University, Fen Fakültesi, Bilgisayar Bilimleri Bölümü, 2018 - 2021

Courses

Doctorate

SPECIAL TOPICS IN COMPUTATIONAL LINGUISTICS AND INTELLIGENT TEXT PROCESSING, Doctorate, 2022 - 2023
MACHINE LEARNING, Doctorate, 2014 - 2015
SEMINAR, Doctorate, 2013 - 2014

Postgraduate

DEEP LEARNING AND CONVOLUTIONAL NEURAL NETWORKS, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018
SECURE SOFTWARE DESIGN AND PROGRAMMING, Postgraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017
INFORMATION SECURITY MANAGEMENT, Postgraduate, 2016 - 2017
DATA MINING, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
YÖNETİM BİLİŞİM SİSTEMLERİ, Postgraduate, 2013 - 2014, 2012 - 2013

Undergraduate

YAZILIM MÜHENDİSLİĞİ İLKELEERİ, Undergraduate, 2022 - 2023
MAKİNE ÖĞRENİMİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017
METİN VE WEB MADENCİLİĞİNE GİRİŞ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
VERİ MADENCİLİĞİNE GİRİŞ, Undergraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018
YAPAY ZEKA, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
YAZILIM PROJESİ YÖNETİMİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
BİTİRME PROJESİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017
NESNEYE YÖNELİK ANALİZ VE TASARIM, Undergraduate, 2020 - 2021
YAZILIM TASARIMI, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
NESNEYE YÖNELİK PROGRAMLAMA, Undergraduate, 2019 - 2020, 2016 - 2017
SİSTEM GÜVENLİĞİ, Undergraduate, 2018 - 2019
VERİ GÜVENLİĞİ, Undergraduate, 2018 - 2019, 2017 - 2018

YAZILIM SINAMA VE DOĞRULAMA, Undergraduate, 2017 - 2018, 2016 - 2017
ESNEK HESAPLAMA TEKNİKLERİ, Undergraduate, 2016 - 2017
YAZILIM PROJE YÖNETİMİ, Undergraduate, 2016 - 2017
SOFT COMPUTING, Undergraduate, 2015 - 2016, 2014 - 2015
BİLGİSAYAR AĞLARI, Undergraduate, 2015 - 2016
INTRODUCTION TO SOFTWARE ENGINEERING, Undergraduate, 2015 - 2016, 2014 - 2015
SENIOR PROJECT II, Undergraduate, 2014 - 2015, 2013 - 2014
INFORMATION SECURITY RISK MANAGEMENT, Undergraduate, 2014 - 2015
STATISTICAL METHODS IN DATA MINING, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
SENIOR PROJECT I, Undergraduate, 2014 - 2015, 2013 - 2014
SOFTWARE DESIGN AND ARCHITECTURE, Undergraduate, 2014 - 2015
PROGRAMMING AND PROBLEM SOLVING I, Undergraduate, 2013 - 2014
COMPUTER SECURITY, Undergraduate, 2013 - 2014
PROGRAMMING AND PROBLEM SOLVING II, Undergraduate, 2013 - 2014
SOFTWARE SYSTEMS ANALYSIS, Undergraduate, 2013 - 2014
SECURE SOFTWARE DESIGN AND PROGRAMMING, Undergraduate, 2013 - 2014
COMPUTATIONAL MATHEMATICS I, Undergraduate, 2012 - 2013
COMPUTATIONAL MATHEMATICS II, Undergraduate, 2012 - 2013, 2011 - 2012
AUDIT OF INFORMATION SYSTEMS, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
INFORMATION SECURITY MANAGEMENT FOR STATISTICS, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
GRADUATION PROJECT, Undergraduate, 2011 - 2012
INFORMATION SECURITY MANAGEMENT, Undergraduate, 2008 - 2009, 2007 - 2008
OPERATING SYSTEMS SECURITY, Undergraduate, 2007 - 2008

Associate Degree

COMPUTER SECURITY, Associate Degree, 2011 - 2012, 2010 - 2011, 2008 - 2009, 2007 - 2008, 2006 - 2007
BASIC PROGRAMMING, Associate Degree, 2011 - 2012, 2010 - 2011, 2009 - 2010
TESTING AND QUALITY ASSURANCE IN SOFTWARE DEVELOPMENT, Associate Degree, 2010 - 2011
PROGRAMMING AND PROBLEM SOLVING, Associate Degree, 2010 - 2011, 2009 - 2010
INFORMATION TECHNOLOGIES, Associate Degree, 2010 - 2011, 2009 - 2010
VOCATIONAL DEVELOPMENT ACTIVITIES III, Associate Degree, 2009 - 2010
VOCATIONAL DEVELOPMENT ACTIVITIES IV, Associate Degree, 2009 - 2010
VOCATIONAL DEVELOPMENT ACTIVITIES II, Associate Degree, 2009 - 2010
VOCATIONAL DEVELOPMENT ACTIVITIES I, Associate Degree, 2009 - 2010

Supervised Theses

Eminağaoğlu M., Bilgisayar oyunlarında yol bulmada derin pekiştirmeli öğrenme yaklaşımı, Postgraduate, D.Ekici(Student), 2023
EMİNAĞAOĞLU M., A deep reinforcement learning approach for pathfinding in computer games, Postgraduate, D.EKİCİ(Student), 2023
EMİNAĞAOĞLU M., Mermer kalitesi sınıflandırması için derin öğrenme destekli bir model, Postgraduate, İ.KARAALİ(Student), 2021
EMİNAĞAOĞLU M., Bayes ağları ve bulanık çıkarım sistemi tabanlı bir bilgi güvenliği risk değerlendirme modeli, Postgraduate, S.BEKEN(Student), 2019
EMİNAĞAOĞLU M., Malware detection for the android platform using machine learning techniques, Doctorate, G.PEYNİRCİ(Student), 2018

Jury Memberships

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, June, 2022
Doctorate, Doctorate, Dokuz Eylül Üniversitesi, June, 2022
Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, September, 2021
Doctorate, Doctorate, Dokuz Eylül Üniversitesi, August, 2020
Doctorate, Doctorate, Yaşar Üniversitesi, June, 2019
Post Graduate, Post Graduate, Yaşar Üniversitesi, August, 2018
Post Graduate, Post Graduate, Ege Üniversitesi, June, 2018
Post Graduate, Post Graduate, Yaşar Üniversitesi, May, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A new similarity measure for vector space models in text classification and information retrieval**
EMİNAĞAOĞLU M.
JOURNAL OF INFORMATION SCIENCE, vol.48, no.4, pp.463-476, 2022 (SCI-Expanded)
- II. **Evaluation of elemental affinities in coal using agglomerative hierarchical clustering algorithm: A case study in a thick and mineable coal seam (km²) from Soma Basin (W. Turkey)**
Eminağaoğlu M., Oskay R. G., Karayığit A. İ.
INTERNATIONAL JOURNAL OF COAL GEOLOGY, vol.259, pp.1-13, 2022 (SCI-Expanded)
- III. **A convolutional neural network model for marble quality classification**
Karaali I., Eminağaoğlu M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.1, pp.347-357, 2021 (SCI-Expanded)
- IV. **Feature Selection for Malware Detection on the Android Platform Based on Differences of IDF Values**
Peynirci G., Eminağaoğlu M., Karabulut K.
JOURNAL OF COMPUTER SCIENCE AND TECHNOLOGY, vol.35, no.4, pp.946-962, 2020 (SCI-Expanded)
- V. **A proposed model for candidate selection process in political parties based on fuzzy logic methodology**
GÖKŞEN Y., DOĞAN O., Eminağaoğlu M.
Mathematical and Computational Applications, vol.17, no.2, pp.152-163, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Pronoun Resolution for Tweets in Turkish**
Abacı H., Eminağaoğlu M., Gör İ., Kılıçaslan Y.
International Journal of Intelligent Systems and Applications in Engineering, vol.10, no.2, pp.207-215, 2022 (Scopus)
- II. **Teknoparklar Odağında Açık İnovasyon Etkisi: Dokuz Eylül Teknoloji Geliştirme Bölgesi İncelemesi**
Karagöz M., Gökşen Y., Eminağaoğlu M.
İZMİR JOURNAL OF ECONOMICS, vol.35, no.4, pp.677-695, 2020 (Peer-Reviewed Journal)
- III. **Android Platformunda Kötücül Yazılım Tespiti: Literatür İncelemesi**
Peynirci G., Eminağaoğlu M.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.13, no.1, pp.65-76, 2020 (Peer-Reviewed Journal)
- IV. **An Information Security Risk Assessment Model Based on Bayesian Network and Fuzzy Inference System**
Beken S., Eminağaoğlu M.

EGE STRATEJİK ARAŞTIRMALAR DERGİSİ, vol.10, no.1, pp.13-33, 2019 (Peer-Reviewed Journal)

- V. **Turnaround Time Prediction for a Medical Laboratory Using Artificial Neural Networks**
Eminağaoğlu M., Vahaplar A.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.11, no.4, pp.357-368, 2018 (Peer-Reviewed Journal)
- VI. **Implementation and Comparison of Machine Learning Classifiers for Information Security Risk Analysis of a Human Resources Department**
Eminağaoğlu M., Eren Ş.
International Journal of Computer Information Systems and Industrial Management Applications, vol.3, pp.391-398, 2011 (Scopus)
- VII. **Data Mining in Medical Records for The Enhancement of Strategic Decisions A Case Study**
Gökşen Y., Eminağaoğlu M., Doğan O.
Scientific Bulletin Economic Sciences, vol.10, no.1, pp.136-145, 2011 (Peer-Reviewed Journal)
- VIII. **Bilgi Güvenliği Nedir Ne Değildir Türkiye de Bilgi Güvenliği Sorunları ve Çözüm Önerileri**
Eminağaoğlu M., Gökşen Y.
Dokuz Eylül Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.11, no.4, pp.1-15, 2009 (Peer-Reviewed Journal)
- IX. **The Positive Outcomes of Information Security Awareness Training in Companies A Case Study**
Eminağaoğlu M., Uçar E., Eren Ş.
INFORMATION SECURITY TECHNICAL REPORT, vol.14, no.4, pp.223-229, 2009 (Peer-Reviewed Journal)

Books

- I. **Machine learning approaches for prediction of service times in health information systems**
Eminağaoğlu M.
in: Enterprise Business Management, Vol. 2018/2019, ALPTEKİN ERKOLLAR, Editor, Tectum-Verlag, Berlin, pp.253-286, 2020
- II. **A Novel Machine Learning Method for Pattern Recognition and Classification**
Ceylan A. M., Eminağaoğlu M.
in: Current Marketing and Production Studies, Selçuk ÇOLAK, Mehmet Ali Burak NAKİBOĞLU, Editor, Akademisyen Kitabevi, Ankara, pp.33-50, 2020
- III. **A New Similarity Measure for Document Classification and Text Mining**
Eminağaoğlu M., Gökşen Y.
in: KnE Social Sciences, Persefoni Polychronidou, Alexandra Horobet, Anastasios Karasavvoglou, Editor, KnowledgeE Publishing, Dubai, pp.353-366, 2020
- IV. **A Novel Similarity Measure for Vector Space Models in Text Classification**
Eminağaoğlu M., Gökşen Y.
in: Selected Discussions on Social Science Research, Bedriye Tunçsiper, Ferhan Sayın, Burak Hergüner, Fatma İrem Aydın, Editor, Frontpage Publications Limited, Londrina, pp.159-173, 2019

Papers Published in Refereed Scientific Meetings

- I. **A Deep Reinforcement Learning Approach for Pathfinding in Computer Games**
Ekici D., Eminağaoğlu M.
First International Symposium in Graduate Researches on Data Science, 02 December 2022, pp.34
- II. **CLASSIFICATION OF DEMENTIA STATUS WITH MACHINE LEARNING METHODS**
Ünal C., Eminağaoğlu M., Gökşen Y.
III. Uluslararası Sağlıkta Yapay Zekâ Kongresi, İzmir, Turkey, 11 - 13 May 2022, pp.22
- III. **Analysis of Literature Reviews Based on Association Rules: A Case Study**
Eminağaoğlu M., Gökşen Y., Ünal C.

4. Uluslararası Sosyal Bilimlerde Kritik Tartışmalar Kongresi, Aydın, Turkey, 22 - 24 October 2021, pp.21
- IV. **Determination of Elemental Affinities in Soma Lower (kM2) Coal Seam in Soma Basin Using Agglomerative Hierarchical Clustering Algorithm**
Eminağaoğlu M., Oskay R. G., Karayığit A. İ.
4th International Conference on Data Science and Applications, İstanbul, Turkey, 4 - 06 June 2021, pp.31
- V. **Marble Quality Classification Using Convolutional Neural Networks**
Karaali I., Eminağaoğlu M.
7th INTERNATIONAL CONFERENCE ON ENGINEERING and NATURAL SCIENCES, İzmir, Turkey, 8 - 10 May 2020, pp.172
- VI. **A New Similarity Measure for Document Classification and Text Mining**
EMİNAĞAOĞLU M., GÖKŞEN Y.
Conference on Economies of the Balkan and Eastern European Countries, Bucharest, Romania, 10 - 12 May 2019, pp.353-366
- VII. **A Novel Similarity Measure for Vector Space Models in Text Classification**
Eminağaoğlu M., Gökşen Y.
IMISC 2019 International Management Information Systems Conference, İstanbul, Turkey, 9 - 12 October 2019, pp.70
- VIII. **ISO27001 Bilgi Güvenliği Yönetim Sisteminde Risk Analizi**
Durankaya İ., Gökşen Y., Eminağaoğlu M.
IMISC 2018 International Management Information Systems Conference, Ankara, Turkey, 24 - 26 October 2018, pp.29-33
- IX. **Analysis of EEG and motion signal data for walking action in a neurological disease**
Özgür S., Kahraman T., Eminağaoğlu M., Özkurt A., Dönmez Çolakoğlu B., Yürdem B., Eliyi U., Keskinoglu P., Genç A.
XXth National and IIIrd International Biostatistics Congress, Gaziantep, Turkey, 26 - 29 October 2018
- X. **Information Security Risk Assessment using Bayesian Network and Fuzzy Inference System: A Case Study**
Beken S., Eminağaoğlu M.
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES), ICATCES 2018, Karabük, Turkey, 11 - 13 May 2018, pp.522-529
- XI. **An Adaptive Network-Based Fuzzy Inference System for Estimating the Duration of Medical Services: A Case Study**
Koksal I. H., EMİNAĞAOĞLU M., Turkoglu B.
10th IEEE International Conference on Application of Information and Communication Technologies (AICT), Baku, Azerbaijan, 12 - 14 October 2016, pp.801-806
- XII. **A Two Factor Authentication System with QR Codes for Web and Mobile Applications**
Eminağaoğlu M., Çini E., Sert G., Zor D.
2014 Fifth International Conference on Emerging Security Technologies, Alcalá-De-Henares, Spain, 10 - 12 September 2014, pp.105-112
- XIII. **A Qualitative Information Security Risk Assessment Model using Machine Learning Techniques**
Eminağaoğlu M.
ICT2012 Second International Conference on Advances in Information and Communication Technologies, Amsterdam, Netherlands, 22 - 23 November 2012, vol.3, pp.92-98
- XIV. **Arama Motorları Optimizasyonunda Bilginin Stratejik Rolü Güvenliği ve Yasal Sorunlar**
Çevik E., Eminağaoğlu M., Gökşen Y.
TBD Bilişim 2012 - 29. Ulusal Bilişim Kurultayı, Ankara, Turkey, 21 - 23 November 2012, vol.1, pp.158-167
- XV. **Using Binary Classifiers for Information Security Risk Analysis A Case Study**
Eminağaoğlu M., Eren Ş., Uçar E.
ISCSE 2011 The 2nd International Symposium on Computing in Science and Engineering, Aydın, Turkey, 1 - 04 June 2011, vol.1, pp.329-335
- XVI. **Implementation and Comparison of Machine Learning Classifiers for Information Security Risk Analysis of a Human Resources Department**

Eminağaoğlu M., Eren Ş.

CISIM 2010 International Conference on Computer Information Systems and Industrial Management Applications, Krakow, Poland, 8 - 10 October 2010, vol.1, pp.187-192

XVII. Improvement of Password Usage in Companies by means of Customized Technical Solutions and Employee Awareness A Case Study

Eminağaoğlu M., Eren Ş.

The 1st International Symposium on Computing in Science Engineering, Aydın, Turkey, 3 - 05 June 2010, vol.1, pp.49

XVIII. Modeling Business Process Exceptions in UML 2 Notation

Kurtel K., Eminağaoğlu M., Eren Ş.

XXIII. microCAD International Scientific Conference, Miskolc, Hungary, 19 - 20 March 2009, vol.23, pp.67-74

Supported Projects

Çini E., Zor D., Sert G., Eminağaoğlu M., TUBITAK Project, Implementation of QR Codes in the Security Authentication Mechanism for Web and Mobile Applications, 2014 - 2014

Peer Reviews in Scientific Publications

Gazi University Journal of Science, Journal Indexed in ESCI, September 2021

DOKUZ EYLÜL ÜNİVERSİTESİ MÜHENDİSLİK FAKÜLTESİ FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, September 2020

GAZİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, February 2020

NEURAL COMPUTING & APPLICATIONS, SCI Journal, September 2015

POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, May 2015

BEHAVIOUR & INFORMATION TECHNOLOGY, Journal Indexed in SSCI, March 2015

JOURNAL OF YASAR UNIVERSITY, National Scientific Refreed Journal, September 2014

CONNECTION SCIENCE, SCI Journal, April 2014

Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, December 2014

Scientific Research / Working Group Memberships

Machine Intelligence Research Labs, MIRLabs, United States Of America, <http://www.mirlabs.net/global/>, 2011 - Continues

Mobility Activity

Erasmus Programme, Lecturing, Katholieke Hogeschool Leuven, Belgium, 2012 - 2012

Erasmus Programme, Lecturing, St. Pölten University of Applied Sciences, Austria, 2010 - 2010

Non Academic Experience

Company, NAVIGATOR BUSINESS & KNOWLEDGE MANAGEMENT SERVICES, Information Security, Assistant General

Manager

Company, ARKAS HOLDING, Information Systems Security Department, Information Systems Security Manager

Company, DIGITURK, IT Department, IT Security Expert

Other Public Institution, Network Security and IT Support Manager

Company, CHRONICLE Ltd., Dept. of Software R & D, Software Engineer

Company, New Holland Trakmak, IT Department, Computer Engineer