

Ensar Gul
Professor of Computer Engineering,
Beykoz University, Dept. of Computer Engineering
Istanbul, Türkiye

email: ensargul@beykoz.edu.tr

Education:

Ph.D., EEC/CS Subject Group, School of Engineering and Applied Sciences, 1989.
University of Sussex, (www.sussex.ac.uk) Brighton, UK

M.S., EE, 1985.
Loughborough University of Technology(www.lboro.ac.uk) Loughborough, UK

B.S., EE, 1982.
Bogazici University(www.boun.edu.tr) , Istanbul, Türkiye

Experience:

Beykoz University
Faculty of Engineering and Architecture,
Professor, Dept. of Computer Engineering, 2020-present

Maltepe University (www.maltepe.edu.tr)
Faculty of Engineering and Natural Sciences,
Professor, Dept. of Software Engineering, 2020-2025

Istanbul Sehir University (www.sehir.edu.tr)
Professor, Dept. of Computer Engineering, 2016--2020
Head of EE dept 2019--2020
Dean, College of Natural Sciences and Engineering, 2016-2018
Coordinator: Master program in Cyber Security Engineering, 2016--2020

Türksat A.Ş. (www.turksat.com.tr), Ankara, 04/2014- 04/2016
CEO and Chairman
Türksat has 3 divisions. 1.) Communication satellites operator. 2.) E-government which develops and maintain e-goverment portal(www.turkiye.gov.tr), 3. Cable TV operator.

Marmara University (www.marmara.edu.tr), Istanbul
Dept. of Computer Engineering 2009-2014
Professor, head of Computer Eng. Dept.

Multitek Arge, Istanbul 11/2003 - 07/2009
General Manager
(Multitek Arge was the R&D company of Multitek(www.multitek.com.tr), developed scalable telephone exchanges which support IP,ISDN and analog terminals)

Oksijen Teknoloji Geliştirme, Istanbul 07/2002-11/2003
Chief Software Architect (CSA)
(Oksijen developed software and systems for mobile operators)

Alcatel Bell, Antwerpen, Belgium 11/1999 -07/2002
Senior SW Research Engineer (SIP based Multimedia Application Server prototype development)

Alcatel Teletas, Istanbul 10/1998- 11/1999
Senior SW Design Engineer and Local Software Process Coordinator

Marmara University, (www.marmara.edu.tr) Istanbul, Türkiye

6/95-10/98, Associate Professor
1/1997-10/1998 Technical Manager, Internet Center

Uludag University(www.uludag.edu.tr) Bursa, Türkiye
Dept. of Electronics Engineering
10/93-6/95, Associate Professor (in Software Engineering)
10/91-10/93, Assistant Professor

Sussex University(www.sussex.ac.uk) , Brighton, UK
School of Engineering and Applied Sciences
10/89-12/90, Research Fellow

Gazi University(www.gazi.edu.tr) , Ankara
Dept. of Electronics Engineering
2/83-9/83, Research Assistant

Consultancy and Management:

Teknopark İstanbul (<https://www.teknoparkistanbul.com.tr/>), 09/2021-09/2024
Projects Evaluation Committee Member

EHSİM (Elektronik Harp Sistemleri) A.Ş. (www.ehsim.com.tr) , Ankara, 03/2020-12/2023
Radar Data Processing Consultant

TUBİTAK Marmara Research Center (<http://mam.tubitak.gov.tr>)
Information Technologies Institute, Gebze, İzmit, Türkiye 4/1993-3/1997
Consultant

LC Waikiki, (www.lcwaikiki.com)İstanbul, 04/2013-04/2014
Software Development Consultant

OSYM (www.osym.gov.tr) Ankara, 09/2010- 09/2012
Board Member (contributed to the renewal of OSYM's data processing system and the development of measurement and evaluation software.)

TUBİTAK(www.tubitak.gov.tr), Ankara, 09/2011-09/2014
Board Member

Publications:

Papers

1. The Effect of Environmental Metrics on Software Fault Prediction, Merve Odabasi, Ensar Gul, [International Journal of Software Engineering and Knowledge Engineering](https://doi.org/10.1142/S021819402250067X), Vol:33 No.1 pp.85-108. 2023 <https://doi.org/10.1142/S021819402250067X>
2. Kritik Altyapılara Yönelik Bilişim Suçları, Türkiye ve AB Uygulamaları, Karaca, M , Gül, E, Bilişim Hukuku Dergisi 3 (2021) : 1-30. <https://dergipark.org.tr/en/pub/bilisimhukukudergisi/issue/63317/737538>
3. Sensor Based Cyber Attack Detections in Critical Infrastructures Using Deep Learning Algorithms, Ferhat Ozgur Catak, Murat Yılmaz, Ensar Gul, Computer Science, Vol:20, No:2, pp 213-244, 2019. <https://doi.org/10.7494/csci.2019.20.2.3191>
4. Deep Learning for Detection of Routing Attacks in the Internet of Things, Furkan Yusuf Yavuz, Devrim Ünal, Ensar Gül, International Journal of Computational Intelligence Systems, Vol. 12, pp 39-58, 2018.

<https://dx.doi.org/10.2991/ijcis.2018.25905181>

5. Detection of attack-targeted scans from the Apache HTTP Server Access Logs, Merve Baş Seyyar, Ferhat Özgür Çatak, Ensar Gul, Applied Computing Informatics, April 2017, <https://doi.org/10.1016/j.aci.2017.04.002>
6. Digital Audio Watermarking Techniques for the security of VOIP Communications Fusun C. Er and Ensar Gul, Journal of Information Assurance and Security, Vol. 7, issue 3, 2012, pp 147-155. <http://www.mirlabs.net/jias/secured/Volume7-Issue3/Paper16.pdf>
7. Design and Simulation of a Fuzzy Controller for FedBatch Yeast Fermentation, N. Besli, M. Turker and E. Gul, Bioprocess Engineering, Vol. 13, 1995, pp 141-148. <https://doi.org/10.1007/BF00369697>
8. On the Track Similarity Test in Track Splitting Algorithm, E. Gul, IEEE Transactions on Electronics and Aerospace Systems, Vol. 30, No: 2, April 1994, pp 604-606. <https://doi.org/10.1109/7.272282>
9. Tracking Multiple Targets Using Parallel Processing, D. P. Atherton, E. Gul, A. Kountzeris ve M. Kharbouch, IEE Proceedings, Vol. 137, Pt. D, No. 4, July 1990, pp 225-234. <https://doi.org/10.1049/ip-d.1990.0028>
10. Transputer Implementation for Multiple Target Tracking, E. Gul and D. P. Atherton, Microprocessors and Microsystems, April 1989, Vol 13, issue 3, pp 188-194. [https://doi.org/10.1016/0141-9331\(89\)90125-7](https://doi.org/10.1016/0141-9331(89)90125-7)

Lecture Notes in Computer Science

11. Application of Fuzzy Control to FedBatch Yeast Fermentation, N. Besli, E. Gul and M. Turker, Lecture Notes in Computer Science, Springer Verlag, 1997, pp. 207-216. https://doi.org/10.1007/3-540-62868-1_113

Conference / Workshop Papers

12. Fraud Detection using Machine Learning in Banking Operations, Ahsen Tetik, Ensar Gul, ASYU 2025, 1012 September, Bursa, Türkiye. <https://doi.org/10.1109/ASYU67174.2025.11208285>
13. Application of Knowledge Discovery in Databases to Determine Car Sales Trends in Türkiye, Orkun Eker and Ensar Gul, Proceedings of the 26th European Conference on Knowledge Management, 4-5 September, 2025, Lahti, Finland. <https://doi.org/10.34190/eckm.26.1.3751>
14. Generative AI based Client Server Architecture for Mobile Computing, E. Yıldırım and Ensar Gul, International Conference on Computer Systems and Technologies, CompsysTech 25, 27-28 June 2025, Russe, Bulgaria. <https://doi.org/10.1109/CompSysTech65493.2025.11137273>
15. Defensive Reflexes of Drones, A. Akpinar and Ensar Gul, 34th International Conference on Computer Theory and Applications (ICCTA 2024), 13-16 DEcember 2024, Alexandria, Egypt. <https://ieeexplore.ieee.org/document/10974903>
16. Network Anomaly Detection with Convolutional Neural Network Based Auto Encoders, B. Kızıltaş and E. Gul, 5-7 October 2020, 28th Signal Processing and Communications Applications Conference (SIU), 2020, pp. 1-4, <https://doi.org/10.1109/SIU49456.2020.9302202>
17. Preventing Data Poisoning Attacks By Using Generative Models, Merve Aladag, Ferhat Ozgur. Çatak, Ensar Gul, 2019 1st International Informatics and Software Engineering Conference (UBMYK), 6-7

- November, 2019, Ankara,Türkiye. <https://doi.org/10.1109/UBMYK48245.2019.8965459>
18. Akıllı Ev Sistemlerinde Güvenlik Zafiyet ve Önlemleri, Burak Özdemir, Ensar Gül, 6. Yönetim Bilişim Sistemleri Konferansı (IMISC2019), 9-12 Ekim 2019, İstanbul.
https://2019.imisc.net/img/proceedings_bildiriler.pdf
 19. Incrementing Adversarial Robustness with Autoencoding for Machine Learning Model Attacks, S. Sivaslıoğlu, F. Ö. Çatak, E. Gül, IEEE (SIU) Signal Processing and Applications Conference, 24-26 April, 2019. <https://doi.org/10.1109/SIU.2019.8806432>
 20. Classification of Methamorphic Malware with Deep Learning (LSTM), A. F. Yazı, F. Ö. Çatak, E. Gül, IEEE (SIU) Signal Processing and Applications Conference, April, 2019.
<https://doi.org/10.1109/SIU.2019.8806571>
 21. Türkiye ve Avrupa Birliği Standartlarına Uygun Blokzincir Tabanlı Diploma Paylaşma ve Doğrulama Çözümü, Ekrem İkizoğlu, Oktay Adalier, Ensar Gul, International Symposium on Innovative Technologies in Engineering and Science 09-11 November 2018 (ISITES 2018) Alanya – Antalya - Türkiye. <https://www.acperpro.com/papers/articles/ISITES2018ID111.pdf>
 22. VoIP Integration for Mobile Ride-sharing Application, M. Burak Amasyalı, E. Gul, 7th IEEE Conference on Communications Systems and Network Technologies, 11-13 November, 2017, Nagpur, India.
<https://doi.org/10.1109/CSNT.2017.8418509>
 23. Design an Event Based Multi-Processors System, Mete Kart, Ensar Gul and Murat Ture, 3rd IEEE International Conference on High Performance and Smart Computing (IEEE HPSC 2017), May 2017, Peking, China. <https://doi.org/10.1109/BigDataSecurity.2017.33>
 24. Neural Network-Based Approaches for Predicting Query Response Times. Elif E. Yusufoglu, Murat Ayyıldız, Ensar Gul, 2014 International Conference on Data Science and Advanced Analytics (DSAA), Shanghai, China, 30 October 1 November 2014. <https://doi.org/10.1109/DSAA.2014.7058117>
 25. Concurrent Multipath Data Transfer Using Modified. SCTP Murat Akzeybek and Ensar Gul, IEEE International Conference on Communication, Networks and Satellite (COMNETSAT 2013), Yogyakarta, Indonesia, 3-5 December 2013. <https://doi.org/10.1109/COMNETSAT.2013.6870849>
 26. A Fuzzy System Model for Task Implementation in Extreme Programming Process, E. Gul, Third International Conference on Software, Services and Semantic Technologies, S3T 2011, Burgas, Bulgaria, 13 September 2011, Advances in Intelligent and Soft Computing, 2011, Volume 101/2011, pp 111-117. https://link.springer.com/chapter/10.1007/978-3-642-23163-6_16
 27. Comparison of Digital Audio Watermarking Techniques for the security of VOIP Communications. Fusun Citak Er and Ensar Gul, 7th International Conference on Information Assurance and Security, Malaka, Malaysia, 58 December 2011. <https://doi.org/10.1109/ISIAS.2011.6122787>
 28. Kalman Gain Calculations with a Neural Network, E. Gul, International Conference on Neural Networks and Artificial Intelligence (ICNNAI2010) , Brest, Belarus, 1-4 June 2010.
<https://pdfs.semanticscholar.org/06ee/318d4384b52214ad27a030cf560bdd8dd341.pdf>
 29. Bilgi Üretimi ve Aktarımı: Sorunlar ve Çözüm için bir Model Önerisi, Ensar Gül, Uluslararası Yükseköğretim Kongresi, UYK 2011, 27-29 Mayıs 2011, İstanbul, 2. Cilt, Bölüm XI, pp-1301-1302.
 30. Using XP in Telecommunication Software Development, E. Gul, T. Sekerci, Aziz C. Yuceturk, U.

Yildirim, ICSEA The Third International Conference on Software Engineering Advances, 2631 October 2008, Malta, pp 258-263. <https://doi.org/10.1109/ICSEA.2008.11>

31. Servis Tabanlı Kurumsal Yazılım Geliştirilmesinde XP Kullanımı ve Eleştirisi, Ensar Gül, Ünal Yıldırım, 2. Ulusal Yazılım Mühendisliği Sempozyumu, pp. 323-330, ODTÜ, Ankara, 2005
32. Telekomünikasyon Yazılımlarının Geliştirilmesinde XP Yaklaşımı, T.Şekerci, A. Yüçetürk, E. Gül, 1. Ulusal Yazılım Mühendisliği Sempozyumu, pp. 221-226, Ege Üniversitesi, İzmir, 23-25 Ekim 2003
33. OO Based Development of a Multimedia Application Server Prototype, E. Gul, G. Willekens, F.Hoste, T. Batsele, R. Selderslaghs, N. Quartier, Advances in Signal Processing and Computer Technologies, pp. 278-283, Proceedings of 5th WSES Conference on Circuits, Systems, Communications and Computers, Crete Greece, 2001.
34. Implementation of SIP Based Multimedia Systems, E. Gul, G. Willekens, T. Batsele, R. Selderslaghs, N. Quartier, F.Hoste, Multimedia Application Conference (MTAC), University of California, Irvine, USA, November 2001.
35. MIGLINUX A Distributed Computing Environment Supporting Checkpointing and Migration of Linux Processes, M. C. Koksai, E. Gul, ISCIS XIV, pp. 966-974, October 1999, Kuşadası, Türkiye
36. A Feature Extraction Algorithm: Transition Scanning in Multiple Axis, S. Ersozlu, E. Gul, ISCIS XIV, pp. 517-522, October 1999, Kuşadası, Türkiye.
37. Use of UNIX Control Element in S12 Digital Exchange, Zeren, M., Gul, E., Open Systems Forum, 28-30 May 1999, İstanbul.
38. Nesne Tabanlı Yazılım Tasarımı ve Telekomünikasyonda Örnek bir Uygulaması, E. Gül, Arge Fuarı, 10 Nisan, 1999, İstanbul.
39. SARM Computerized Security Architecture Reference Model for C31 Systems, E. Gul, E. Oztemel, A. Daloglu and F. Ince, Protecting Nato Information Systems In The 21st Century, pp 191-196, Washington DC, USA, 1999.
40. Yazıyı Sese Çevirim ("Converting text to speech"), Erkan Durmus, Ensar Gül, 6. Ulusal Sinyal İşleme ve Uygulamaları Kurultayı(SIU) pp 230-236, Kızılcahamam, Ankara, 28-30 Mayıs 1998
41. Hedef İzleme Algoritmaları, Ensar Gül, Savunma Sanayindeki Gelişmeler Sempozyumu, pp. 1329-1334, 5-6 Haziran 1997, Ankara.
42. A Mathematical Model for Multiprocessor Implementation of an Algorithm, E. Gul, ISCIS XI, Proceedings of 11th Int. Symposium. On Computer and Information Sciences, pp.437-443, 29 October-1 November 1996, Antalya, Türkiye.
43. Mikroişlemci ve Bilgisayar Mimarilerindeki Gelişmeler, Bilişim 96, 18-22 Eylül, 1996, İstanbul
44. Boyalı Metalik Yüzeylerin Kalite Kontrolü için Paralel Sistem Tasarımı, E. Gül, M. Sitti, A. Erçil and B. Özüyılmaz, 3. Ulusal Sinyal İşleme ve Uygulamaları Kurultayı(SIU), pp.141-146, 6-7 Nisan 1995, Kapodokya, Türkiye.
45. Maya Fermentasyonunda Bulanık Denetim, N. Besli, M. Türker and E. Gül, H. Başulaş, 2. Endüstriyel Otomasyon'95 Sempozyumu, pp.323-334, 30-31 Mart 1995, İstanbul.
46. Comparison of EKF and a Fuzzy Filter for Tracking a Maneuvering Target, M. Ruscuk and E. Gul, Third International Conference on Automation, Robotics and Computer Vision, pp. 1873-1877, 9-11

November 1994, Singapore.

47. Hedef Görüntülerinden Konum ve Hız Bilgilerinin Elde Edilmesi , E. Gül, A. Orun , A. Tezer, Otomatik Kontrol Bilimsel Toplantısı, pp.191-196 , 6-7 Nisan, 1994, İstanbul.
48. RIGVIS1 Robot Görme Sistem Geliştirimi, A. Orun, E. Gul, M. Ertugrul , A. Denker, Otomatik Kontrol Bilimsel Toplantısı, pp.,209-216, 6-7 Nisan, 1994, İstanbul.
49. Applications of AI Tools to Target Tracking, E. Gul and D. P. Atherton, 10th Anniversary Symposium, Dept. of Aeronautical Engineering, Middle East Technical University, pp. 437-444, 22-26 June 1992, Ankara, Türkiye.
50. Target tracking using transputers as parallel processors, D.P. Atherton, D.M.A Hussain, E. Gul, 9th IFAC Symposium on Identification and System Parameter Estimation, 8-12 July 1991., Budapest, Hungary.
51. Clustering Algorithm for Transputer Implementation of a Target Tracker, E. Gul, M. Kharbouch and D. P. Atherton, IEE Colloquium on 'Transputer Applications', 13 November 1989, London, UK.
52. Some Preliminary Investigations in Target Tracking Using Transputers, E. Gul and D. P. Atherton, IEE Colloquium on 'Recent Advances in Parallel Processing for Control', 7 July 1988, Bangor, U.K.

Research Posters

53. İnternet Telefonu için İlave Servislerin Tasarımı ,E. Gul, G. Willekens, F.Hoste, T. Batsele, R. Selderslaghs, N. Quartier, 9. Ulusal Sinyal İşleme ve Uygulamaları Kurultayı(SIU) Magosa, KKTC, 25-27 Nisan,2001

Invited Conference Talks

54. Software Architecture and Process for an Embedded Communication System Development, Ensar Gul, International Conference on Communication, Computing and Digital Systems (CCODE 2017), 8 - 9 March 2017, Bahria University, Islamabad, Pakistan
55. Is Innovation Depended on Location, Ensar Gul, 21st Conference of The Islamic World Academy Of Sciences (Ias) On Science, Technology And Innovation For Global Peace and Prosperity 8-11 October 2017 Konya , Türkiye
56. Turksat's Space Vision, Ensar Gul, 7th International Conference on Recent Advances in Space Technologies, 16-19 June 2015, İstanbul.

Editorial Board

International Journal on Advances in Software, 2012-2024

Reviewer:

ACM Transactions on Privacy and Security, 2023

Network: Computation in Neural Systems 2023- 2024

Information and Software Technology, Elsevier, 2020

IEEE Access 2019

Turkish Journal of Electrical Engineering and Computer Sciences, 2010- 2012

International Journal on Advances in Software, 2012- 2019

International Journal of Software Engineering and Knowledge Engineering, 2009 , 2022

Electronic Letters, 1997-2001

IEE Proceedings, Radar, Sonar and Navigation, 1994

Program Committee Member/TPC Reviewer

- ISDFS 2025 13th International Symposium on Digital Forensics and Security, Boston, April 24-25 2025.
- ISDFS 2024 12th International Symposium on Digital Forensics and Security, Trinity University, US, 29-30 April 2024
- DaSET2023.the second intr conference on data science and emerging technologies,4-5 December 2023,Malaysia
- IISEC 2023 : 4th International Informatics and Software Engineering Conference, 21st to 22nd December 2023, Ankara, Türkiye
- Workshop on Big Data and Artificial Intelligence in Digital Twins (BAID),4-7 December 2023 Taormina, Messina, Italy
- 11th International Symposium on Digital Forensic and Security,The University of Tennessee at Chattanooga, US, 11-12 May 2023
- 10th International Symposium on Digital Forensic and Security, Maltepe University, İstanbul, Türkiye, 6-7 June 2022
- 7th International Conference of Soft Computing and Data Science, 24-25 January, Kuala Lumpur, Malaysia, 2023
- 2nd International Informatics and Software Engineering Conference, 16-17 December, 2021, Ankara
- SCDS 2021,
- IJECE 2021.
- 2nd International Conference on Big Data and Wireless Technologies, 2020
- ICSEA 2014, The Ninth International Conference on Software Engineering Advances , October 12 - 16, 2014 - Nice, France
- ICSEA 2013, The Eighth International Conference on Software Engineering Advances , October 27 - November 1, 2013 - Venice, Italy
- ICSEA 2012, The Seventh International Conference on Software Engineering Advances, November 18-23, 2012 - Lisbon, Portugal
- ICSEA 2011, The Sixth International Conference on Software Engineering Advances , October 23-29, 2011 – Barcelona, Spain
- 2nd Malaysian Joint Conference on AI (MJCAI2010), July 26-30, 2010, Kuching, Sarawak, Malaysia
- ICSEA 2010, The Fifth International Conference on Software Engineering Advances , August 22-27, 2010 – Nice France
- ICSEA 2009, The Fourth International Conference on Software Engineering Advances , September 20-25, 2009 - Porto, Portugal
- SIU 96, 4. Ulusal Sinyal İşleme ve Uygulamaları Kurultayı(SIU) Kemer,Antalya, 5-6 Nisan 1996
- SIU 95, 3. Sinyal İşleme ve Uygulamaları Kurultayı, Kapadokya, Nevşehir, 26-28 Nisan 1995

Honors and awards:

- Best academic personnel award, Marmara University, 1996
- Scholarship for MSc and PhD from Ministry of Education, Türkiye, 1984-1989
- Hacı Ömer Sabancı scholarship, 1977-1982
- Ranked in the top 0.1% among 500,000 participants in the National University Entrance Examination of Türkiye, 1977.

Affiliations: Senior member ACM

Courses taught:

	University	Course name	undergraduate /graduate
2020-2023	Maltepe University(full time)	1. Object Oriented Design and Programming 2. Operating Systems, 3. Software Project Management 4. Introduction to Software Engineering	undergraduate
		1. Software Engineering 2. Data Structures and Algorithms	graduate
2016-2020	Istanbul Sehir University(full time)	5. Object Oriented Design and Programming 6. Operating Systems, 7. Understanding Science and Technology	undergraduate
		3. Advanced Internet Services 4. Object Oriented Design	graduate
2009-2014	Marmara University(full time)	Internet Programming	undergraduate
		1. Advanced Internet Services 2. Object Oriented Design and Programming, 3. Software Processes	graduate
2016-2018	Marmara University(part time)	Object Oriented Design and Programming	graduate
2008-2009	Marmara University(part time)	Object Oriented Design and Programming	graduate
2005-2007	Gebze Technical University(Gebze Institute of Technology) (part time)	1. Programming with Distributed Objects 2. Software Design Patterns	graduate
2004	Bogazici University(part time)	Advanced Software Engineering	graduate

2003-2004	Istanbul Technical University(part time)	Advanced Topics in Computer Science(Programming with Distributed Objects)	graduate
1998-1999	Marmar University (part-time)	Object Oriented Languages	graduate
1995-1998	Marmara University(full time)	1. Computer Programming in C 2. Object Oriented Software Construction(using Java), 3. Assembler Programming 4. Microprocessors 5. Computer Architecture	undergraduate
		1. Object Oriented Languages 2. Parallel Processing and Multi-Processors, 3. Advanced Computer Architecture 4. Fuzzy Systems.	graduate
1991-1995	Uludag University (full time)	1. Computer Programming in C 2. Object Oriented Programming in C++ 3. Introduction to Data Structures 4. Digital Design	undergraduate
		1. Parallel Processing and Multi-Processors 2. Optimal Filtering 3. Concurrent Programming	graduate

Graduate thesis supervised

1. Ercan Ayhan, Voicexml İle Sunucu Taraflı İvr Geliřtirmenin Kalite Ve Maliyet Etkisi, Maltepe University, 2024
2. Adnan Akpınar, Dronelerin Savunma Refleksleri(Defensive Reflexes of Drones), Maltepe University, 2023
3. Arslan Ziyilan,Türkiye'nin 2016-2019 Ulusal Siber Güvenlik Stratejisi ve Eylem Planının Mukayeseli Olarak İncelenmesi(National Cyber Security Strategies), İstanbul Şehir University, 2020
4. Merve Odabaşı, Makina Öğrenmesi Algoritmalarına Dayalı Yazılım Hata Tahmini: Çevresel Metriklerin Etkisi(Software Fault Prediction Based on Machine Learning Algorithms: The Effect of Environmental Metrics), İstanbul Şehir University, 2019
5. Behlül Kızıldaş, Evrişimli Sinir Ağları Tabanlı Otomatik Kodlayıcılar ile Ağ Saldırıları Tespiti(Network Intrusion Detection with Convolutional Neural Network Based Auto Encoders), İstanbul Şehir University, 2019
6. Muhammet Karaca, Kritik Altyapılara Yönelik Bilişim Suçları Türkiye ve AB Uygulamaları, (Cyber Crimes Against Critical Infrastructures in Türkiye and EU), İstanbul Şehir University, 2019
7. Murat Katırcıoğlu, İOT Tabanlı Akıllı Tarım Sisteminde Kullanılan Kablosuz Sensörlerinin Güvenliğinin

- İncelenmesi ve Ataklara Karşı Gerçek Ortamdaki Etkisi(Cyber Attacks Against IOT Based Smart Agriculture Systems), İstanbul Şehir University , 2019
8. Burak Özdemir, Akıllı Ev Sistemlerinde Güvenlik Zafiyetleri ve Önlemleri(Security Vulnerabilities in Smart Home Systems), İstanbul Şehir University , 2019
 9. Kamile Nur Seviş, Biometrics for SmartPhones: Age Recognition, Gender Recognition and Identification, İstanbul Şehir University, 2017
 10. Elif Özcan Sözeri, On Smartphone Latent Earmarks, İstanbul Şehir University, 2017
 11. Murat Akzeybek, Load Balancing on Concurrent Multipath Transfer with SCTP, Marmara University, 2013
 12. Elif Ezgi Yusufoglu , Estimation of Database Query Time before Execution in a Database Management System, jointly supervised with Dr. Murat Ayyildiz, Marmara University, 2012
 13. Füsün C. Er, Comparison of Digital Audio Watermarking Techniques for the security of VOIP Communications, Marmara University, 2011
 14. Sertac Ersözlü, Symbol Matching and Character Recognition, Marmara University, 1999
 15. Çağrı Köksal, Global Scheduling and Dynamic Load Balancing in Loosely Coupled Distributed System, Marmara University, 1999
 16. Fatih İbrahim Cirit, Data Acquisition and Control System for IBM PC, Uludag University, 1995
 17. Nurettin Beşli, Design of Fuzzy Control Systems, Uludag University, 1994
 18. Mesut Rusçuk, Comparison of Fuzzy Filtering and Extended Kalman Filtering, Uludag University, 1993

Graduate thesis co-supervised

1. Merve Aladağ, Veri Zehirlleme Saldırıların Üretici Modeller Kullanılarak Engellenmesi, jointly supervised with Ferhat Özgür Çatak, İstanbul Şehir University, 2020
2. Rıdvan Karataş, Self Sovereign Identity Based E-Petition Scheme, jointly supervised with Dr. İsa Sertkaya, İstanbul Şehir University, 2020.
3. Yusuf Alagöz, Deniz hedeflerinin geleneksel ve derin öğrenme tabanlı yöntemler ile sınıflandırılması, jointly supervised with Dr. Ahmet Fatih Mustaoğlu, Marmara University, 2020
4. Selahattin Aktaş, Telsiz sistemlerinde güvenli ses haberleşmesi, jointly supervised with Dr. İbrahim Hökelek, Marmara University, 2020
5. Savaş Yılmaz, Estonya elektronik seçimleri bireysel oy doğrulama sistemi, jointly supervised with Dr. İsa Sertkaya, Marmara University, 2020
6. Samed Sivaslıoğlu, Autoencoders for Adversarial Security of Linear and Neural Network Models, jointly supervised with Ferhat Özgür Çatak, İstanbul Şehir University, 2019
7. Ahmet Faruk Yazı, Metamorfik zararlı yazılımların derin öğrenme ile sınıflandırılması, jointly supervised with Ferhat Özgür Çatak, İstanbul Şehir University, 2019
8. Mustafa Hakkı Kozan, GPS Tabanlı Konum Belirleme Sistemlerinin Güvenliği ve Sinyal Geliş Doğrultusu (DOA-Direction of Arrival) ile Saldırı Tespiti, jointly supervised with Dr. İbrahim Hökelek, İstanbul Şehir University, 2019
9. Selim Özcan, Transfer Learning Effects on Image Steganalysis with pre-Trained Deep Residual Neural

- Network Model, jointly supervised with Dr. Ahmet Fatih Mustafaçoğlu Istanbul Sehir University, 2019
10. Emine Büşra Akdemir, Veri Madenciliği Yaklaşımı ile Sosyal Medya Analizi, jointly supervised with Dr. Ahmet Fatih Mustafaçoğlu Istanbul Sehir University, 2019
 11. İlker Yasin Yıldız, Anahtarlı Boole geri besleme fonksiyonu olan kayan anahtar üreteçleri için gelişmiş saldırı yöntemi, jointly supervised with Dr. Orhun Kara, Istanbul Sehir University, 2019
 12. Meltem Akay, Detecting cryptographic ransomware by examining file system activity, jointly supervised with Dr. İsa Sertkaya, Istanbul Sehir University, 2019.
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 15. Ekrem Yasir İkizoğlu, Türkiye standartlarına uygun blokzincir tabanlı diploma yönetimi, jointly supervised with Dr. Oktay Adalier, Istanbul Sehir University, 2019
 16. Mustafa Köğçe, SSL sertifikaları ile NTP' nin güvenliğine yeni bir yaklaşım, supervised with Necati Ersen Şişeci, Istanbul Sehir University, 2019
 17. Latif Anıl Büyükbaskın, Blokzincir tabanlı e-seçim sistem önerilerinin güvenlik ve mahremiyet analizleri, jointly supervised with Dr. İsa Sertkaya, Istanbul Sehir University, 2019.
 18. Nihan Çaydaş, Yan kanal ve hata yaptırma atak cihazlarının, hazırlanan test yazılımı ile yönetilmesi ve alınan ölçümlerin analiz edilmesi, jointly supervised with Dr. Ercan Ölçer, Istanbul Sehir University, 2019
 19. Faruk Yakaryılmaz, Bilgi Teknolojileri Kullanım Kültürü ve Farkındalık Yöntemlerinin Geliştirilmesi, jointly supervised with Dr. Oktay Adalier, Istanbul Sehir University, 2018
 20. İsmail Aydın, Application of Privacy-Preserving Clustering Methods Using Homomorphic Encryption Algorithms, jointly supervised with Ferhat Özgür Çatak, Istanbul Sehir University, 2018.
 21. Murat Yılmaz, Sensor Based Cyber Attack Detections in Critical Infrastructures using Deep Learning Algorithms,, jointly supervised with Ferhat Özgür Çatak, Istanbul Sehir University,, 2018.
 22. Furkan Palıgu, Classification and Static Detection of Obfuscated Web Application Backdoors, jointly supervised with Ferhat Özgür Çatak, Istanbul Sehir University , 2018.
 23. Furkan Yusuf Yavuz, Deep Learning in Cyber Security for Internet of Things, jointly supervised with Devrim Ünal, Istanbul Sehir University, 2018.
 24. Ahmet Çakmak, Web güvenliğinde SSL/TLS Kriptografik protokolü: Açıklıklar, saldırılar ve güvenlik önlemleri, jointly supervised with Dr. Mehmet Sabır Kiraz, Istanbul Şehir University, 2018
 25. Ertuğrul Başaranoğlu, Kurumsal Ağlardaki Windows Ortamlarına Saldırılar ve Sıkılaştırma Yöntemleri (Microsoft Domain Environment Penetration Testing Methodology and Mitigations Against These Attacks), jointly supervised with Dr. Ferhat Özgür Çatak, Istanbul Şehir University, 2017
 26. Elif Büyükkaya, Raspberry Pi üzerinde AES algoritmasına yan kanal analizi ve ölçüm iyileştirme, jointly supervised with Necati Ersen Şişeci, Istanbul Şehir University, 2017
 27. Merve Baş Seyyar, Detection of Attack Targeted Scans from the Apache HTTP Server Access Logs, jointly supervised with Dr. Ferhat Özgür Çatak, Istanbul Şehir University, 2017

28. Osman Biçer, Efficiency Optimizations on Yao's Garbled Circuits and Their Practical Applications, jointly supervised with Mehmet Sabır Kiraz, İstanbul Şehir University, 2017
29. Ramazan Yoldaş, ÖKC Ortamlarında Yeni TCKK Ve EKDS Ortamlarının Adaptasyonu/Entegrasyonu, jointly supervised with Dr. Oktay Adalier, İstanbul Şehir University, 2017

Graduate Projects Supervised

1. Ezgi Yıldırım, LLM Destekli Mobil Uygulama Geliştirme, Maltepe Üniversitesi, 2024
2. Orkun Eker, Büyük Veri İçinde Kaybolmamak İçin Veri Madenciliği ve Otomotiv Sektöründe Kullanımına Dair Bir Örnek, Maltepe Üniversitesi, 2024.
3. Barış Külekçi, Manuel ve Otomasyon Testlerinin Yazılım Geliştirme Süreçlerinde Etkileri ve Karşılaştırmaları, Maltepe Üniversitesi, 2024
4. Caner Değirmencioğlu, Kaggle Platformunda Makine Öğrenmesi İle Kalp Krizi Analiz Ve Tahmini Yapılması, Maltepe Üniversitesi, 2024
5. İlhan Karakuş, Docker Ve Kubernetes Konteyner Teknolojilerinin Kullanım Avantajları Ve Mikro Servis Mimarisindeki Uygulama Dağıtım Stratejileri, Maltepe Üniversitesi, 2024
6. Mehmet Müstecep, Unreal Engine ve Unity Oyun Motorlarının Kıyaslanması, Maltepe Üniversitesi, 2024
7. Ozan Müstecep, Oyun Motorları ve Unity, Maltepe Üniversitesi, 2024
8. Sunay Akıncı, Bulut Bilişim Ortamlarında Veri Güvenliği Ve Gizlilik, Maltepe Üniversitesi, 2023
9. Hüseyin Küçükdal, Web Tabanlı Saldırılar ve Önlenmesi, Maltepe Üniversitesi, 2022
10. Mehmet Kor, Sanal Gerçeklik Ve Artırılmış Gerçeklik Sistemlerinin Madencilik Sektörü, Eğitim ve Bakım Süreçlerinde Kullanımı (The usage of virtual reality and augmented reality systems in the mining sector for education and maintenance processes), Maltepe Üniversitesi, 2022
11. Serhat Güneş, İstihbarat, İstihbarat Teknikleri, Osint ,Siber Tehdit İstihbaratı ve Uygulamaları, İstanbul Şehir Üniversitesi, 2020
12. Mehmet Yıldız, Elektronik İmza ile Elektronik Seçim Uygulaması ve Dünyada Elektronik Seçim Uygulamaları, İstanbul Şehir Üniversitesi,2019
13. Hasan Akgöz, Gizli Kanallar-Covert Channels, İstanbul Şehir Üniversitesi, İstanbul Şehir Üniversitesi, 2019
14. Bilal Nebi Görgün, İleri Sızma Testi Laboratuvarı,İstanbul Şehir Üniversitesi, İstanbul Şehir Üniversitesi, 2019
15. Bülent Serdar Ulusal, Yeni Nesil Siber Saldırılar ve Sandbox Koruma Teknolojileri,İstanbul Şehir Üniversitesi, 2019
16. Abdülkadir Saygıner, Yazılım Tabanlı Ağlarda Güvenlik Yaklaşımı, İstanbul Şehir Üniversitesi, 2019
17. Gökhan Kuruçay, Ağ Erişim Kontrol Sistemleri ve Güvenlik, İstanbul Şehir Üniversitesi, 2019
18. Leylim Damla Çetin, 5070 Sayılı Elektronik İmza Kanunun Kurumlar İçin Uygulanması, İstanbul Şehir Üniversitesi, 2019
19. Mehmet Yıldız, Elektronik İmza İle Elektronik Seçim Uygulaması ve Dünyada Elektronik Seçim

Uygulamaları,İstanbul Şehir Üniversitesi, 2019

20. Hasan Atan, Gelecek Nesil IP- Yerel altyapılarında ağ ve güvenlik analizi,İstanbul Şehir Üniversitesi, 2018.
21. Hüseyin Uçan, Security onion ve ELK ile saldırı tespit ve log yönetimi uygulaması,İstanbul Şehir Üniversitesi, 2018
22. Volkan Yazıcı, Border Gateway Protocol (BGP) (Sınır Geçiş Protokolü), İstanbul Şehir Üniversitesi, 2018