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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-9655-2019

ScopusID: 8669253700

Yoksis Researcher ID: 183998

Education

Doctorate 2005 - 2006	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, Turkey
Postgraduate 1992 - 1994	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering, Turkey
Undergraduate 1986 - 1990	Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, Turkey

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Performans artırmaya yönelik paralel mimarilerin yapay sinir ağları yaklaşımı ile değerlendirilmesi, Yildiz Technical University, Faculty of Electrical & Electronics, Computer Engineering, 2006

Postgraduate, Üç serbestlik dereceli bir robot kolu tasarımı, Yildiz Technical University, Faculty of Electrical & Electronics, Computer Engineering, 1995

Academic Titles / Tasks

Professor 2021 - Continues	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
Associate Professor 2015 - Continues	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering

Assistant Professor 2006 - 2015	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
Research Assistant 1992 - 2006	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering

Supported Projects

1. YAVUZ S., ARABUL A. Y., BEKİROĞLU K. N., KESKİN ARABUL F., OBDAN A. H., Kaya Ö. F., ÖZÇIRA ÖZKILIÇ S., Güzel S., USLU E., Arıtürk M., et al., Project Supported by Higher Education Institutions, Otonom Karşılama ve Güvenlik Robotu, 2022 - 2024

2. Yavuz S., Bekiroğlu K. N., Arabul A. Y., Keskin Arabul F., Uslu E., Amasyalı M. F., Obdan A. H., Özçıra Özkılıç S., Project Supported by Higher Education Institutions, Otonom Karşılama ve Güvenlik Robotu, 2022 - 2024

3. USLU E., YAVUZ S., EĞİTMEN A., CEBELOĞLU F. S., Project Supported by Higher Education Institutions, Mobil cihazlar için modern zararlı yazılımları tespit eden yapay zeka tabanlı yeni nesil tespit algoritması, 2022 - 2023

4. YAVUZ S., ÇAKMAK F., Project Supported by Higher Education Institutions, Kara ve Mikro Hava Araçları Üzerinde Bezier Eğrileri ile Yol Planlaması ve Navigasyon Algoritmaları (PATH PLANNING WITH BEZIER CURVES AND NAVIGATION ALGORITHMS ON GROUND AND MULTI MICRO AERIAL VEHICLES), 2017 - 2023

5. Yavuz S., Amasyalı M. F., Uslu E., TUBITAK Project, 118E215 - Heterojen Çok Robotlu Otonom Arama Kurtarma Takımı İçin Etkin Görev Dağılımı, 2018 - 2021

6. USLU E., YAVUZ S., AMASYALI M. F., ÇAKMAK F., AKINCI A., MARANGOZ S., ALTUNTAŞ N., Project Supported by Higher Education Institutions, Gerçek Robot Platformu ile Tasarlanmış ve Tasarlanmamış Engebeli Alanda Otonom Gezinim, 2015 - 2018

7. AMASYALI M. F., ÇAKMAK F., ALTUNTAŞ N., YAVUZ S., USLU E., AKINCI A., MARANGOZ S., DİLAVER M. B., KIRLI E., Project Supported by Higher Education Institutions, Kısıtlı İletişime Sahip Robot Takımları İçin Otonom Keşif Algoritmalarının Tasarlanması, 2015 - 2017

8. Yavuz S., Sezgin A., Project Supported by Higher Education Institutions, İnsansız Hava Aracı Tasarım ve Kontrolü, 2015 - 2017

9. Yavuz S., Amasyalı M. F., Uslu E., TUBITAK Project, Otonom Arama Kurtarma Robotları İçin Keşif, Haritalama Ve Afetzede Tespit Algoritmalarının Geliştirilmesi, 2013 - 2016

10. YAVUZ S., Project Supported by Higher Education Institutions, Afet Ortamlarında Kullanılacak Otonom Robot Tasarımı, 2013 - 2014

11. YAVUZ S., Project Supported by Higher Education Institutions, Afet Robotları İçin Algoritma Tasarımı, 2013 - 2014

12. YAVUZ S., Project Supported by Higher Education Institutions, Eş zamanlı konum belirleme ve harita oluşturma amaçlı robot takımı projesi., 2008 - 2012

13. YAVUZ S., Project Supported by Higher Education Institutions, Robot Takımı ile Eş Zamanlı Konum Belirleme ve Haritalama., 2010 - 2011

14. Bolat B., Yavuz S., Amasyalı M. F., Altun O., Kurt Z., Uslu E., Project Supported by Higher Education Institutions, Eş Zamanlı Konum Belirleme ve Harita Oluşturma Amaçlı Otonom Robot Projesi YTÜ BAPK 27 04 01 01, 2007 - 2008

Awards

1. Kıvrak H., Çakmak F., Köse H., Yavuz S., Best Paper Award, International Conference On Innovations İn Intelligent Systems And Applications, August 2020

2. Dilaver M. B., Çakmak F., Uslu E., Altuntaş N., Amasyalı M. F., Yavuz S., En İyi Bildiri Ödülü, Akıllı Sistemlerde Yenilikler Ve Uygulamaları Konferansı, October 2017

3. Yavuz S., Uslu E., Amasyalı M. F., Çakmak F., Arama Kurtarma Simülasyon Ligi'nde 1.lik, Nıst, August 2017

4. Yavuz S., Amasyalı M. F., Uslu E., Çakmak F., Altuntaş N., RoboCup World Championship - En iyi otonom robot

Ödülü, Nıst, August 2017

5. Yavuz S., Amasyalı M. F., Uslu E., Çakmak F., Altuntaş N., RoboCup World Championship - En iyi keşif robotu Ödülü, Nıst, August 2017

6. Yavuz S., Çakmak F., Amasyalı M. F., Uslu E., RoboCup En İyi Dış Ortam Robotu, Nıst, August 2017

7. Yavuz S., Amasyalı M. F., Uslu E., Çakmak F., RoboCup German Open, Nıst, May 2017

Scholarships

Yurt Dışı Doktora Burs Programı, YOK, 1997 - 2001

Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2019

Designed Lessons

Doctorate
Yavuz S., Derin Öğrenme ve Yapay Sinir Ağları , Doctorate, 2015 - 2016
Yavuz S., Sistem Simülasyonu, Doctorate, 2009 - 2010
Postgraduate
Yavuz S., Olasılıksal Robotik, Postgraduate, 2007 - 2008
Undergraduate
Yavuz S., Amasyalı M. F., Robot Teknolojisine Giriş, Undergraduate, 2015 - 2016
Yavuz S., Mühendislik Matematiği, Undergraduate, 2008 - 2009
Yavuz S., Ayrık Olay Simülasyonu, Undergraduate, 2006 - 2007

Research Infrastructure Information

Yavuz S., Olasılıksal Robotik Grubu Laboratuvarı, September 2006

Books

1. Yavuz S., Allahviranloo T., Arıtürk M.
   in: , Snehashish Chakraverty, Editor, John Wiley & Sons, West Sussex, UK , New-Jersey, pp.391-412, 2020

Papers Published in Refereed Scientific Meetings

1. **Occupancy Grid Map Completion Based on Geometric Features and Door Discovery**
   Guzel S., USLU E., YAVUZ S.
   12th International Symposium on Digital Forensics and Security, ISDFS 2024, Texas, United States Of America, 29 - 30 April 2024

2. **Infrared Image Generation From RGB Images Using CycleGAN**
   Guzel S., YAVUZ S.
   16th International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2022, Biarritz, France, 8 - 12 August 2022

3. **Üç Boyutlu Doğal Seyrüsefer**

Kaya Ö. F., Yılmaz K., Uslu E., Çakmak F., Amasyalı M. F., Yavuz S.

28th Signal Processing and Communications Applications Conference (SİU), Gaziantep, Turkey, 5 - 07 October 2020

4. **Gps Yasak Alanlarda Insansiz Hava Araci Lokalizasyonuna Dair Yaklasimlar**

YAVUZ S.

2020 28th Signal Processing and Communications Applications Conference (SIU), İstanbul, Turkey, 05 October 2020

5. **3D Mapping and Simultaneous Navigation for Multi Micro Aerial Vehicles in Indoor Environments Coklu Mikro Hava Araclari icin Ic Ortamda 3B Haritalama ve Es Zamanli Navigasyon**

DİLAVER M. B., ÇAKMAK F., USLU E., AMASYALI M. F., YAVUZ S.

28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020

6. **A multilevel mapping based pedestrian model for social robot navigation tasks in unknown human environments**

KIVRAK H., ÇAKMAK F., KÖSE H., YAVUZ S.

2020 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), İstanbul, Turkey, 24 - 26 August 2020

7. **Physiological Data-Based Evaluation of a Social Robot Navigation System**

KIVRAK H., ULUER P., KÖSE H., Gümüşlü E., EROL BARKANA D., ÇAKMAK F., YAVUZ S.

2020 29th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Nepal, Italy, 31 August - 04 September 2020, pp.994-999

8. **Otonom Efektif Alan Tarayıcı Robot Tasarımı**

Köroğlu U., İslamoğlu U., Uslu E., Çakmak F., Altuntaş N., Amasyalı M. F., Yavuz S.

Akıllı Sistemlerde Yenilikler ve Uygulamaları, İzmir, Turkey, 31 October - 02 November 2019, pp.1-4

9. **Design of an Autonomous Effective Area Scanning Robot Otonom Efektif Alan Tarayici Robot Tasarimi**

Koroglu U., Islamoglu U., Uslu E., Çakmak F., Altuntas N., Fatih Amasyali M., Yavuz S.

2019 Innovations in Intelligent Systems and Applications Conference, ASYU 2019, İzmir, Turkey, 31 October - 02 November 2019

10. **Holonomik Robot ile Dar Alanlarda Gezinim (Holonomic Robot Navigation in Narrow Spaces)**

BAYGÜL F., USLU E., ÇAKMAK F., ALTUNTAŞ N., AMASYALI M. F., YAVUZ S.

5. Türkiye Robotbilim Konferansı (ToRK 2019), İstanbul, Turkey, 26 - 28 June 2019, pp.16-21

11. **Holonomic Robot Navigation in Narrow Spaces**

Baygül F., Uslu E., Çakmak F., Altuntaş N., Amasyalı M. F., Yavuz S.

Türkiye Robotbilim Konferansı 2019, ToRK2019, İstanbul, Turkey, 26 - 28 June 2019, pp.16-21

12. **Socially Aware Robot Navigation Using the Collision Prediction Based Pedestrian Model**

KIVRAK H., ÇAKMAK F., KÖSE H., YAVUZ S.

Workshop on Robotic Co-workers 4.0: Human Safety and Comfort in Human-Robot Interactive Social Environments 2018 IEEE/RSJ International Conference on Intelligent Robots and Systems, Madrid, Spain, 1 - 05 October 2018

13. **Tasarlanmış Engebeli Ortamda Otonom Mobil Robot Gezinimi**

YAŞAR A., USLU E., ÇAKMAK F., ALTUNTAŞ N., AMASYALI M. F., YAVUZ S.

Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, Antalya, Turkey, 5 - 07 October 2017, pp.37

14. **RoboCup RRL Manevra 2 Alanı için Otonom Gezinim Algoritması**

DİLAVER M. B., ÇAKMAK F., USLU E., ALTUNTAŞ N., AMASYALI M. F., YAVUZ S.

Akıllı Sistemlerde Yenilikler ve Uygulamaları Konferansı, Antalya, Turkey, 5 - 07 October 2017, pp.71

15. **Android application for simultaneously control of multiple land robots which have different drive strategy**

Gökcen B., Baygül F., ÇAKMAK F., USLU E., AMASYALI M. F., YAVUZ S.

2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.724-728

16. Comparison of 3-Dimensional SLAM systems: RTAB-Map vs. Kintinuous
Altuntaş N., Uslu E., Çakmak F., Amasyalı M. F., Yavuz S.
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.99-103

17. Akıllı Mobil Robotları Hayalden Gerçeğe Dönüştürmek
YAVUZ S.
ASYU 2017, Alanya, 5 - 07 October 2017

18. Thermal based exploration for search and rescue robots
ÇAKMAK F., USLU E., AMASYALI M. F., YAVUZ S.
2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2017, Gdynia, Poland, 3 - 05 July 2017, pp.113-118

19. Design and implementation of an outdoor line follower robot for RoboCup search and rescue league RoboCup Arama Kurtarma Ligi Diş Ortam Kategorisi Çizgi İzleyen Robot Platformu Tasarimi ve Gerçklenmesi
Dilaver M. B., USLU E., ÇAKMAK F., ALTUNTAŞ N., AMASYALI M. F., YAVUZ S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

20. Hazmat charts detection on search and rescue league of RoboCup competitions RoboCup Yarişmalari Arama Kurtarma Ligi Ortamlarinda Hazmat İşaretleri Tespiti
Çakmak F., Uslu E., Amasyalı M. F., Yavuz S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

21. A fast 3D exploration algorithm for autonomous aerial robots Otonom Hava Robotlari Için Hizli Bir 3 Boyutlu Keşsif Algoritmasi
Marangoz S., Ergun E. E., Uslu E., Çakmak F., Altuntaş N., Amasyalı M. F., Yavuz S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

22. Autonomous mobile robot exploration in negative obstacle environment Çukurlu Ortamda Otonom Mobil Robot ile Keşif
Keskin N., Uslu E., Çakmak F., Altuntaş N., Amasyalı M. F., Yavuz S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

23. A Fast 3D Exploration Algorithm for Autonomous Aerial Robots
Marangoz S., Ergun E. E., USLU E., ÇAKMAK F., Altuntas N., AMASYALI M. F., YAVUZ S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

24. Autonomous Mobile Robot Exploration in Negative Obstacle Environment
Keskin N., USLU E., ÇAKMAK F., Altuntas N., AMASYALI M. F., YAVUZ S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

25. Design and Implementation of an Outdoor Line Follower Robot for RoboCup Search and Rescue League
DİLAVER M. B., USLU E., ÇAKMAK F., Altuntas N., AMASYALI M. F., YAVUZ S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

26. Hazmat Charts Detection on Search and Rescue League of RoboCup Competitions
ÇAKMAK F., USLU E., AMASYALI M. F., YAVUZ S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017

27. Authentication For Online Voting Using Physical Biometric
Yavuz S., Abbas S.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE ICAS 2016, İstanbul, Turkey, 31 August - 02 September 2016

28. Experiences of Team Yildiz in Virtual and Real Rescue League
Yavuz S., Amasyalı M. F., Uslu E., Çakmak F.
The Future of robot rescue simulation Workshop, Leiden, Netherlands, 29 February - 04 March 2016

29. Deformable Part Model and Deep Learning Comparison on Victim Detection
Cakmak F., Uslu E., Altuntas N., Marangoz S., Balcilar M., Amasyali M. F., Yavuz S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,

pp.1513-1516

30. **An Architecture for Multi-Robot Hector Mapping**
Balcilar M., USLU E., ÇAKMAK F., ALTUNTAŞ N., Marangoz S., AMASYALI M. F., YAVUZ S.
International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sinaia, Romania, 2 - 05
August 2016

31. **Impact of Artificial Dataset Enlargement on Performance of Deformable Part Models**
Yilmaz B., AMASYALI M. F., Balcilar M., USLU E., YAVUZ S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
pp.193-196

32. **Efficiency of dynamic local area strategy for frontier-based exploration in indoor environments**
Akagündüz S., Özalp N., Yavuz S.
9th International Conference on Intelligent Robotics and Applications, ICIRA 2016, Tokyo, Japan, 22 - 24 August
2016, pp.351-361

33. **3 Dimensional Thermal Mapping**
ALTUNTAŞ N., ÇAKMAK F., USLU E., Balcilar M., AMASYALI M. F., YAVUZ S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016,
pp.1201-1204

34. **Implementation of frontier-based exploration algorithm for an autonomous robot**
USLU E., ÇAKMAK F., BALCILAR M., Akıncı A., AMASYALI M. F., YAVUZ S.
International Symposium on Innovations in Intelligent Systems and Applications, INISTA 2015, Madrid, Spain, 2 -
04 August 2015

35. **Hudut Hedefleri Temelli Otonom Keşif Algoritması Uygulaması**
USLU E., ÇAKMAK F., BALCILAR M., AMASYALI M. F., YAVUZ S.
23. IEEE Sinyal İşleme Uygulamaları Kurultayı, Malatya, Turkey, 16 May 2015, vol.1, pp.1313-1316

36. **Human victim detection with Deformable Part Models Degişebilir Parça bazli Modeller ile Kurban
Tanima**
Yilmaz B., Balcilar M., AMASYALI M. F., YAVUZ S.
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19
May 2015, pp.947-950

37. **nImplementation of Frontier-Based Exploration Algorithm for an Autonomous Robot**
USLU E., ÇAKMAK F., Balcilar M., Akinci A., AMASYALI M. F., YAVUZ S.
International Symposium on Innovations in Intelligent SysTems and Applications (INISTA 2015), Madrid, Spain, 2 -
04 September 2015, pp.34-40

38. **Frontier-Based Autonomous Exploration Algorithm Implementation**
Uslu E., Çakmak F., Balcılar M., Amasyalı M. F., Yavuz S.
23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,
pp.1313-1316

39. **ROS Uyumlu Robot Platformu Gerçeklenmesi**
ÇAKMAK F., USLU E., BALCILAR M., YAVUZ S., AMASYALI M. F.
Türkiye Otonom Robotlar Konferansı (TORK), Ankara, Turkey, 06 November 2014, pp.1

40. **ROS Compatible Robot Platform Implementation**
ÇAKMAK F., USLU E., BALCILAR M., YAVUZ S., AMASYALI M. F.
Türkiye Otonom Robotlar Konferansı, Ankara, Turkey, 06 November 2014, vol.1, pp.1-4

41. **Using Range and Inertia Sensors for Trajectory and Pose Estimation**
ÇAKMAK F., USLU E., YAVUZ S., AMASYALI M. F., BALCILAR M., ALTUNTAŞ N.
Signal Processing and Communication Applications Conference, Trabzon, Turkey, 23 April 2014, vol.1, pp.506-509

42. **Routing with Dijkstra in Mobile Ad-Hoc Networks**
Mahmoodi K., Balcilar M., Amasyalı M. F., Yavuz S., Uzun Y., Davletov F.
17th International Symposium on Robot World Cup (RoboCup), Eindhoven, Netherlands, 24 June - 01 July 2013,
vol.8371, pp.316-325

43. **Using range and inertia sensors for trajectory and pose estimation Gezinge ve konum kestirim**

yöntemlerinde mesafe ve atalet duyargalarinin kullanimi
ÇAKMAK F., USLU E., YAVUZ S., AMASYALI M. F., Balcilar M., Altuntaş N.
2014 22nd Signal Processing and Communications Applications Conference, SIU 2014, Trabzon, Turkey, 23 - 25 April 2014, pp.506-509

44. **Obstacle Avoidance with Vector Field Histogram Algorithm for Search and Rescue Robots**
Sahin G., Balcilar M., Uslu E., Yavuz S., Amasyalı M. F.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.766-769

45. **Security Analysis of an Encryption Algorithm Based on Cellular Automata and Chaos**
Özer A. B., Yavuz S., Özkaynak F.
6th International Conference on Information Security and Cryptology, Ankara, Turkey, 20 - 21 September 2013, pp.1

46. **Evaluation Criteria for Chaos Based Cryptographic Systems**
Yavuz S., Özer A. B., Özkaynak F.
Tübitak - A Special Conference: Open Problems in Mathematical and Computational Sciences, İstanbul, Turkey, 01 September 2009

47. **Security analysis of an image encryption algorithm based on chaos and DNA encoding Kaos ve DNA kodlama tabanll bir görüntü sifreleme algoritmaslnin güvenlik analizi**
Özkaynak F., Özer A. B., Yavuz S.
2013 21st Signal Processing and Communications Applications Conference, SIU 2013, Haspolat, Turkey, 24 - 26 April 2013

48. **Usage of HoG (histograms of oriented gradients) features for victim detection at disaster areas**
Uzun Y., Balcilar M., Mahmoodi K., Davletov F., AMASYALI M. F., YAVUZ S.
8th International Conference on Electrical and Electronics Engineering, ELECO 2013, Bursa, Turkey, 28 - 30 November 2013, pp.535-538

49. **A comparison of EKF, UKF, FastSLAM2.0, and UKF-based FastSLAM algorithms**
Kurt-Yavuz Z., YAVUZ S.
IEEE 16th International Conference on Intelligent Engineering Systems, INES 2012, Lisbon, Portugal, 13 - 15 June 2012, pp.37-43

50. **Improvement of the measurement update step of EKF-SLAM**
Kurt Yavuz Z., YAVUZ S.
IEEE 16th International Conference on Intelligent Engineering Systems, INES 2012, Lisbon, Portugal, 13 - 15 June 2012, pp.61-65

51. **Analysis of chaotic methods for compression and encryption processes in data communication Veri iletişiminde sikiştirma ve şifreleme süreçleri için kaotik yöntemlerin analizi**
Özkaynak F., Özer A. B., YAVUZ S.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Turkey, 18 - 20 April 2012

52. **Doğanın Hesapsal Güzelliklerinden Öğrendiğimiz Görüntü Şifreleme Algoritmaları**
Yavuz S., Özkaynak F., Özer A. B.
Akıllı Sistemlerde Yenilikler ve Uygulamaları Sempozyumu (ASYU 2012), Trabzon, Turkey, 3 - 04 July 2012, pp.187-190

53. **Kaos Tabanlı Yeni Bir Blok Şifreleme Algoritması**
Yavuz S., Özkaynak F., Özer A. B.
IV. Ağ ve Bilgi Güvenliği Sempozyumu, İstanbul, Turkey, 25 - 26 November 2011, pp.108-112

54. **An automated domain specific stop word generation method for natural language text classification**
Ayral H., Yavuz S.
2011 International Symposium on INnovations in Intelligent SysTems and Applications, INISTA 2011, Istanbul-Kadikoy, Turkey, 15 - 18 June 2011, pp.500-503

55. **Simultaneous localization and mapping using extended Kalman filter Genişletilmiş Kalman filtresi yöntemine dayali eş zamanli konum belirleme ve haritalama algoritmasi**

Yavuz S., Kurt Z., Biçer M. S.

2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, Antalya, Turkey, 9 - 11 April 2009, pp.700-703

56. **Fuzzy-Neural Robot Controller for Unknown Environment Exploration**

Yavuz S., Özışık O.

1st International Fuzzy Systems Symposium (FUZZYSS09), Ankara, Turkey, 1 - 02 October 2009, pp.460-463

57. **Autonomous Parallel Parking Robot**

Yavuz S., Şahin O.

Int. Symp. On Innovations in Intelligent Systems and Applications, Trabzon, Turkey, 29 June - 01 July 2009, pp.421-424

58. **A Simulation of Preventive Method to Reduce the Number of Stop&Go Situations in Urban Traffic**

Yavuz S., Balcılar M., Sönmez A. C.

Int. Symp. On Innovations in Intelligent Systems and Applications, Trabzon, Turkey, 29 June - 01 July 2009, pp.125-129

59. **Genişletilmiş Kalman Filtresi Yöntemine Dayalı Eş Zamanlı Konum Belirleme ve Haritalama**

Yavuz S., Kurt Z., Biçer M. S.

SIU 2009, Kocaeli, Turkey, 9 - 11 April 2009, pp.700-703

60. **Simultaneous Localization and Mapping Using Extended Kalman Filter**

YAVUZ S., Kurt Z., Bicer M. S.

IEEE 17th Signal Processing and Communications Applications Conference, Antalya, Turkey, 9 - 11 April 2009, pp.914-917

61. **A simultaneous localization and map building algorithm based on Sequential Monte Carlo method Sirali Monte Carlo yöntemine dayali eş zamanli konum belirleme ve haritalama aigoritmasi**

Kurt Z., Yavuz S.

2008 IEEE 16th Signal Processing, Communication and Applications Conference, SIU, Aydın, Turkey, 20 - 22 April 2008

62. **An Autonomous Robot Map Creation and Map Optimization Using Genetic Algorithms and Artificial Neural Networks**

Cabar I., Erol O. K., YAVUZ S.

8th WSEAS International Conference on Applied Informatics and Communications, Rhodes, Greece, 20 - 22 August 2008, pp.443-445

63. **A Simultaneous Localization and Map Building Algorithm Based on Sequential Monte Carlo Method**

Kurt Z., YAVUZ S.

IEEE 16th Signal Processing and Communications Applications Conference, Aydın, Turkey, 20 - 22 April 2008, pp.709-712

64. **An occupancy grid based SLAM method**

Özışık O., Yavuz S.

IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, İstanbul, Turkey, 14 - 16 July 2008, pp.117-119

65. **Optical Music Recognition**

Yavuz S., Özışık O.

Int. Symp. On Innovations in Intelligent Systems and Applications, İstanbul, Turkey, 20 - 23 June 2007, pp.257-261

66. **YEEM : Yazılım Projeleri Maliyet Tahminleme Ölçev Seti ve Modeli**

Yavuz S., Kalıpsız O., Ayyıldız M.

ELECO 2006, Bursa, Turkey, 6 - 10 December 2006, pp.1-4

67. **Eş Zamanlı Konum Belirleme ve Harita Oluşturma Amaçlı Otonom Bir Robot**

Yavuz S., Amasyalı M. F., Balcılar M., Bilgin G., Dinç T., Kurt Yavuz Z.

Elektrik Elektronik Bilgisayar Mühendisliği Sempozyumu (ELECO 2006), Bursa, Turkey, 6 - 10 December 2006, pp.225-229

68. **A Metric-Set and Model Suggestion for Better Software Project Cost Estimation**

Ayyildiz M., KALIPSIZ O., YAVUZ S.

Conference of the World-Academy-of-Science-Engineering-and-Technology, Venice, Italy, 24 - 26 November 2006, vol.16, pp.274-279

69. **A neural network based methodology for performance evaluation of parallel systems**
YAVUZ S.
18th Australian Joint Conference on Artificial Intelligence, AI 2005: Advances in Artificial Intelligence, Sydney, Australia, 5 - 09 December 2005, pp.297-307

70. **Paralel Sistemlerin Performansının Yapay Sinir Ağları ile Değerlendirilmesi**
Yavuz S.
BMYS2005 Bilimde Modern Yöntemler Sempozyumu, Kocaeli, Turkey, 16 - 18 November 2005, pp.44-51

71. **Performance Prediction of a 2-Dimensional FFT on Different Platforms Using Neural Networks**
Yavuz S.
Int. Symp. On Innovations in Intelligent Systems and Applications, İstanbul, Turkey, 15 - 18 June 2005, pp.136-139

Academic and Administrative Experience

2023 - Continues	**Head of Department**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2020 - 2023	**Vice Dean**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2020 - 2023	**Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2011 - 2019	**Geçiş Komisyonu**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2009 - 2018	**Farabi Program Institutional Coordinator**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2009 - 2011	**Deputy Head of Department**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering
2009 - 2011	**Member of ADEK Commission**	Yildiz Technical University, Faculty Of Electrical & Electronics, Computer Engineering

Courses

Doctorate
Bilgisayar Güvenliği ve Kriptografi, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Derin Öğrenme ve Yapay Sinir Ağları , Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Postgraduate
Yapay Sinir Ağları, Postgraduate, 2019 - 2020
Undergraduate
Robot Teknolojisine Giriş, Undergraduate, 2020 - 2021, 2018 - 2019
Bitirme Çalışması BLM9000, Undergraduate, 2018 - 2019
Yapay Sinir Ağlarına Giriş, Undergraduate, 2017 - 2018
Çok Disiplinli Tasarım Projesi , Undergraduate, 2018 - 2019

Mühendislik Matematiği, Undergraduate, 2016 - 2017

Supervised Theses

Yavuz S., A new image cipher using color space transform and Lorenz map, Postgraduate, F.YEŞİM(Student), 2019

Yavuz S., İnsansız hava aracı tasarımı ve kontrolüDesign and control of unmanned aerial vehicle, Postgraduate, A.SEZGİN(Student), 2017

Yavuz S., SMS spam filtering on mobile communication, Postgraduate, I.HUSSAIN(Student), 2017

YAVUZ S., Authentication for online voting using physical biometric Biyometrik verİler kullanarak çevrimİçi oylama doğrulama, Postgraduate, S.ADNAN(Student), 2016

Yavuz S., Pasif radar uygulamaları, Postgraduate, A.EĞİTMEN(Student), 2015

Yavuz S., MOBİL ROBOT SÜRÜLERİ İÇİN DİNAMİK YÖNLENDİRME ALGORİTMALARI, Postgraduate, K.MAHMOODI(Student), 2014

Yavuz S., ARAMA KURTARMA AMAÇLI DİFERANSİYEL SÜRÜŞLÜ TEKERLEKLİ ROBOT TASARIMI VE GERÇEKLENMESİ, Postgraduate, F.Çakmak(Student), 2014

Yavuz S., Kaos Tabanlı Simetrik Şifreleme Sistemlerinin Tasarım ve Analizi, Doctorate, F.Özkaynak(Student), 2013

Yavuz S., Gezgin robotlarla eş zamanlı konum belirleme ve haritalama, Postgraduate, A.HABİBOV(Student), 2011

Yavuz S., Robot takımı ile eş zamanlı konum belirleme ve haritalama, Postgraduate, O.Özışık(Student), 2010

Yavuz S., Çoklu robot simülasyonu ve kumanda ortamı, Postgraduate, E.Deniz(Student), 2009

Yavuz S., Eş zamanlı konum belirleme ve haritalamaya yönelik akıllı algoritmaların geliştirilmesi, Postgraduate, Z.Kurt(Student), 2007

Patent

Yavuz S., KONUM BELİRLEYEN BİR CİHAZ VE OTONOM BİR HARİTALAMA VE KONUM BELİRLEME YÖNTEMİ, Patent, CHAPTER G Physics, The Invention Registration Number: 2016 20438 , Standard Registration, 2020

Memberships / Tasks in Scientific Organizations

ACM, Member, 2008 - Continues
IEEE Computer Society, Member, 2008 - Continues
EMO, Member, 1991 - Continues

Peer Reviews in Scientific Publications

Nonlinear Dynamics, SCI Journal, January 2016
Nonlinear Dynamics, SCI Journal, September 2013
IEEE/RSJ Int. Conference on Intelligent Robots and Systems, SCI Journal, October 2012
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, May 2011
Inista 2010, SCI Journal, June 2010
Inista 2009, SCI Journal, June 2009
Inista 2008, SCI Journal, June 2008
Inista 2007, SCI Journal, June 2007

Scientific Research / Working Group Memberships

OLASILIKSAL ROBOTİK, YILDIZ TEKNİK ÜNİVERSİTESİ, Türkiye, robotics.yildiz.edu.tr, 2006 - Continues

Metrics

Publication: 98
Citation (WoS): 306
Citation (Scopus): 568
H-Index (WoS): 6
H-Index (Scopus): 11

Congress and Symposium Activities

ITURO 2018, Invited Speaker, İstanbul, Turkey, 2018
Akıllı Sistemlerde Yenilikler ve Uygulamalar (ASYU) Konferansı, Invited Speaker, Antalya, Turkey, 2017

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Neural Networks, Mechanical
Engineering, Machine Theory and Dynamics, Robotics, Engineering and Technology

Entrepreneurship Activities

Anonymous, Polonom teknoloji sanayi ve ticaret A.Ş, 20 December 2017, Co-Founder

Non Academic Experience

Polonom Teknoloji Sanayi ve Ticaret A.Ş., Genel Müdür