

---

Assoc. Prof.  
Atılım University  
Dept. of Computer Engineering  
Incek, Ankara, 06836 TURKEY  
Phone : +90-312-586 8361  
Fax : +90-312-586 8091  
Official Email : [murat.karakaya@atilim.edu.tr](mailto:murat.karakaya@atilim.edu.tr)  
Personal Email : [kmkarakaya@gmail.com](mailto:kmkarakaya@gmail.com)  
WEB : <http://www.atilim.edu.tr/~murat.karakaya>

## **RESEARCH INTERESTS**

Communication and networking issues as well as data/information process and dissemination issues in various network models including peer-to-peer (P2P) networks, wireless broadcast networks, mobile ad hoc networks (MANET), social networks and sensor networks. Moreover, applying and developing methods involving Machine Learning and Deep Learning paradigms.

## **EDUCATION**

- **Postdoctoral Research, Computer Engineering:**
  - Research Topic: Interactions and Network Structures in Social Networks,
  - Advisor: Hakan FERHATOSMANOGLU,
  - Dept. of Computer Science and Engineering, *Ohio State University*, USA, April 2011.
- **Ph.D., Computer Engineering:**
  - Thesis Title: Counteracting Free Riding In Pure Peer-To-Peer Networks,
  - Thesis Advisor: Ozgur ULUSOY, Co-Advisor: Ibrahim KORPEOGLU,
  - Dept. of Computer Engineering, *Bilkent University*, Ankara, Turkey, March 2008,
  - GPA: 4.00/4.00.
- **M.S., Computer Engineering:**
  - Thesis Title: An Efficient Broadcast Scheduling Algorithm for Pull-Based Mobile Environments,
  - Thesis Advisor: Ozgur ULUSOY,
  - Dept. of Computer Engineering, *Bilkent University*, Ankara, Turkey, August 2000,
  - GPA: 3.85/4.00.
- **M.S., Management and Organization:**
  - Thesis Title: Information Systems with regard to Individual and Organizational Productivity,
  - Thesis Advisor: Dursun BINGOL,
  - Institute of Social Sciences, *Atatürk University*, Erzurum, Turkey, December 1997,
  - GPA: 78/100.
- **ADP Diploma, Computer Engineering:**
  - Department of Computer Engineering, *Middle East Technical University*, Ankara, Turkey, September 1996,
  - GPA: 3.80/4.00.
- **B.S., Electrical & Electronics Engineering:**
  - Department of Electrical & Electronics Engineering, *Turkish Military Academy*, Ankara, Turkey, August 1991,
  - GPA: 3.60/4.00.

## JOURNAL PUBLICATIONS indexed by SCI / SCI-E

1. Halil Savuran, Murat Karakaya, **Efficient Route Planning for an Unmanned Air Vehicle Deployed on a Moving Carrier**, *Soft Computing*, Vol. 20, Issue 7, pp 2905-2920, ISSN: 1432-7643, July 2016
2. Murat Karakaya, **MSCT: An Efficient Data Collection Heuristic for Wireless Sensor Networks with Limited Sensor Memory Capacity**, *KSII Transactions on Internet and Information Systems*, Vol.9, No.9, p. 3396-3411, 2015
3. Murat Karakaya, **Time-Sensitive Ant Colony Optimization to Schedule A Mobile Sink for Data Collection in Wireless Sensor Networks**, *The Ad Hoc & Sensor Wireless Networks*, Vol.28, No.1-2, p. 65-82, 2015.
4. Murat Karakaya, **Deadline-Aware Energy-Efficient Query Scheduling in Wireless Sensor Networks with Mobile Sink**, *The Scientific World Journal*, Vol. 2013, Article ID 834653, 10 pages, 2013. doi:10.1155/2013/834653. (ISSN: 1537-744X)
5. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy, **Free Riding in Peer-to-Peer Networks**, *IEEE Internet Computing*, Vol. 13, No. 2, pages 92-98, March/April 2009. (ISSN: 1089-7801)
6. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy, **Counteracting Free Riding in Peer-To-Peer Networks**, *Computer Networks*, Vol. 52, No. 3, pp 675-694, Elsevier, February, 2008. (ISSN:1389-1286)
7. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy, **A Connection Management Protocol for Promoting Cooperation in Peer-to-Peer Networks**, *Computer Communications*, Vol. 31, No. 2, pp 240-256, Elsevier, February 2008. (ISSN:0140-3664)
8. D. Katsaros, A. Nanopoulos, M. Karakaya, G. Yavas, O. Ulusoy, Y. Manolopoulos, **Clustering Mobile Trajectories for Resource Allocation in Mobile Environments**, Intelligent Data Analysis Conference (IDA'2003), *Lecture Notes in Computer Science* (Springer Verlag), vol.2810, 2003. (ISSN:0302-9743)

## JOURNAL PUBLICATIONS indexed by other sources

1. Gokhan Sengul, Murat Karakaya, Atila Bostan, **A Smart Classroom Application: Monitoring And Reporting Attendance Automatically Using Smart Devices**, *International Journal of Scientific Research in Information Systems and Engineering (IJSRISE)*, Vol. 3, No. 1, 39-43, ISSN: 2380-8128, Apr. 2017.
2. Atila Bostan, Gökhan Şengül, Murat Karakaya, **Unidirectional Data Transfer: A Secure System To Push The Data From A High Security Network To A Lower One Over An Actual Air-Gap**, *International Journal of Scientific Research in Information Systems and Engineering (IJSRISE)*, Vol. 3, No. 1, 35-38, ISSN: 2380-8128, Apr. 2017.
3. Gokhan Sengul, Murat Karakaya, Atila Bostan, **Determination and Identification Of Dangerously Lane Changing Vehicles In Traffic By Image Processing Techniques**, *International Journal of Scientific Research in Information Systems and Engineering (IJSRISE)*, Vol. 3, No. 1, 44-47, ISSN: 2380-8128, Apr. 2017.
4. Gokhan Sengul, Murat Karakaya, Atila Bostan, **Remotely Monitoring Activities of The Elders Using Smart Watches**, *International Journal of Scientific Research in Information Systems and Engineering (IJSRISE)*, Vol. 3, No. 1, 56-60, ISSN: 2380-8128, Apr. 2017.
5. Murat Karakaya, Ender Sevinç, **An Efficient Genetic Algorithm for Routing Multiple UAVs under Flight Range and Service Time Window Constraints**, *International Journal of Informatics Technologies*, Vol. 10, No.1, 113-121, DOI: <http://dx.doi.org/10.17671/btd.15848>, ISSN: 2147-0715, Jan. 2017

6. Murat Karakaya, Gokhan Şengul, Atila Bostan, **A Wireless Control System Based on Smart Bluetooth and Ibeacon Technology for Auditing the Patrols**, *International Journal of Scientific Research in Information Systems and Engineering*, Vol. 2, No. 3, 8-11, ISSN: 2380-8128, Dec. 2016.
7. Murat Karakaya, Atila Bostan, Erhan Gökçay, **How Secure is Your Smart Watch?**, *International Journal of Information Security Science*, Vol. 5, No. 4, 90-95, ISSN: 2147-0030, Dec. 2016.
8. Hazan Daglayan, Murat Karakaya, **An Optimized Ambulance Dispatching Solution for Rescuing Injures After Disaster**, *Universal Journal of Engineering Science*, Vol. 4, No. 3, 50-57, DOI: <http://dx.doi.org/10.13189/ujes.2016.040303>, ISSN: 2331-6624, Sep. 2016.
9. Murat Karakaya, Gökhan Şengül, **Using Bluetooth Low Energy Beacons for Indoor Localization**, *International Journal of Intelligent Systems and Applications in Engineering*, Accepted, Sep. 2016.
10. Hazan Daglayan, Murat Karakaya, **The Impact of Crossover and Mutation Operators on a GA Solution for the Capacitated Vehicle Routing Problem**, *Universal Journal of Engineering Science*, Vol. 4, No. 3, 39-44, DOI: <http://dx.doi.org/10.13189/ujes.2016.040301>, ISSN: 2331-6624, Sep. 2016.
11. Atila Bostan, Murat Karakaya, **Öğrenci Ders Devamının Sınavlarda Alınan Notlara Etkisi Üzerine Bir Durum Çalışması (A Case Study on Impact of Student Course-Attendance on Exam Grades)**, *Mersin Üniversitesi Eğitim Fakültesi Dergisi*, Vol. 12, No. 1, 211-222, DOI: <http://dx.doi.org/10.17860/efd.87593>, e-ISSN: 1306-7850, Nisan 2016.
12. Murat Karakaya, **Mobile Sink Scheduling Method for Wireless Sensor Networks under Travel Time Uncertainty**, *Journal of Advances in Computer Networks*, Vol. 3, No. 4, 326-329, ISSN: 1793-8244, Dec. 2015.
13. Murat Karakaya, **RSRP: Risk Sensitive Routing Protocol in Wireless Sensor Networks**, *Girne American University Journal of Social and Applied Sciences*, Vol. 7, No. 11, 68-75, ISSN: 1305-9130, Sep. 2015.
14. Murat Karakaya, Gokhan Sengul, **Using Service Oriented Architecture for Plate Recognition by Mobile Devices**, *Girne American University Journal of Social and Applied Sciences*, Vol. 7, No. 11, 76-81, ISSN: 1305-9130, Sep. 2015.
15. Murat Karakaya, Gokhan Sengul, **Determining Firm Logos Using Image Processing Techniques on a Mobile Device to Aid Blind People**, *Girne American University Journal of Social and Applied Sciences*, Vol. 7, No. 11, 83-88, ISSN: 1305-9130, Sep. 2015.
16. Ibrahim Cereci, Hazan Daglayan, Nergiz Kılınc, Senem Aktaş, Murat Karakaya, **Efficient Data Gathering in WSN with a Range Constrained Mobile Relay**, *Girne American University Journal of Social and Applied Sciences*, Vol. 7, No. 11, 89-95, ISSN: 1305-9130, Sep. 2015.
17. Halil Savuran, Murat Karakaya, **Route Optimization Methods for Unmanned Air Vehicle Launched from a Carrier**, *Lecture Notes on Software Engineering*, Vol. 3, No. 4, 279-284, ISSN: 2301-3559, Nov. 2015.
18. Ender Sevinc, Murat Karakaya, **Maximizing UAV Target Coverage under Flight Range and Target Service Time Constraints**, *Lecture Notes on Software Engineering*, Vol. 3, No. 4, 290-294, ISSN: 2301-3559, Nov. 2015.
19. Murat Karakaya, **A Local Optimization Technique for Assigning New Targets to the Planned Routes of Unmanned Aerial Vehicles**, *The Balkan Journal of Electrical & Computer Engineering (BAJECE)*, Vol.2, No.2, ISSN : 2147-284X, June 2014.
20. Murat Karakaya, **UAV Route Planning For Maximum Target Coverage**, *Computer Science & Engineering: An International Journal (CSEIJ)*, Vol. 4, No. 1, February 2014. (ISSN : 2231 - 329X)

21. Murat KARAKAYA, Özgür ULUSOY, İbrahim KÖRPEOĞLU, **A General Purpose Simulator for Unstructured P2P Networks and a Sample Application**, *Journal of Defense Sciences*, Turkish Military Academy, Vol. 8, No. 2, Nov 2009.
22. Murat Karakaya and H. Altay Guvenir, **ARG: A Tool for Automatic Report Generation**, *Istanbul University - Journal of Electrical & Electronics Engineering*, Vol. 4, No. 2, (2004), pp. 1101-1109. (ISSN:1303-0914)

## PATENTS

1. Murat KARAKAYA, Gökhan Şengül, "**Temassız Ve Kablosuz Konumlandırma, Takip Ve Kontrol Sistemi**", Başvuru numarası (Application No.): 2015/10603

## CONFERENCE PUBLICATIONS

1. Erhan Gökçay, Murat Karakaya, Gokhan Şengul, **Optimal Number of Clusters**, *The Fifth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017)*, Girne American University, Girne, North Cyprus, 1-3 Nov. 2017.
2. Atila Bostan, Murat Karakaya, Gokhan Şengul, **Chaos-Based Data Encryption Using Arnold's CAT Map**, *The Fifth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017)*, Girne American University, Girne, North Cyprus, 1-3 Nov. 2017.
3. Murat Karakaya, Meltem Eryilmaz, Atila Bostan, **Predicting Student Success according to Online Activities in a Blended Course using Artificial Neural Networks**, *The Fifth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017)*, Girne American University, Girne, North Cyprus, 1-3 Nov. 2017.
4. Murat Karakaya, Atila Bostan, Gokhan Şengul, **Extending Lifetime of the Selected Sensor Nodes in Wireless Sensor Networks**, *The Fifth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017)*, Girne American University, Girne, North Cyprus, 1-3 Nov. 2017.
5. Atila Bostan, Murat Karakaya, Gokhan Şengul, **Biometric Verification on e-ID-Card Secure Access Devices: A Case Study on Turkish National e-ID Card Secure Access Device Specifications**, *10th International Conference on Information Security and Cryptology (ISCTURKEY 2017)*, Ankara, Turkey, Oct 20 - 21, 2017.
6. Murat Paşa Uysal, Murat Karakaya **Ontology-Supported Enterprise Architecture Analysis**, *2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON)*, Kyiv, Ukraine, May 29 – June 2, 2017.
7. Murat Karakaya, Gokhan Şengul, Erhan Gökçay **An IoT Application for Locating Victims Aftermath of an Earthquake**, *2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON)*, Kyiv, Ukraine, May 29 – June 2, 2017.
8. Gokhan Şengul, Atila Bostan, Murat Karakaya **A Smart Classroom Application: Monitoring and Reporting Attendance Automatically Using Smart Devices**, *The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016)*, Girne American University, North Cyprus, 2-4 Nov. 2016.
9. Gokhan Şengul, Atila Bostan, Murat Karakaya **Determination and Identification of Dangerously Lane Switching Vehicles in Traffic by Image Processing Techniques**, *The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016)*, Girne American University, North Cyprus, 2-4 Nov. 2016.
10. Atila Bostan, Gokhan Şengul, Murat Karakaya **Unidirectional Data Transfer : A Secure System to Push the Data From A High Security Network to A Lower One Over An**

- Actual Air-Gap**, *The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016)*, Girne American University, North Cyprus, 2-4 Nov. 2016.
11. Murat Karakaya, Gokhan Şengul, Atila Bostan **A Wireless Control System Based on Smart Bluetooth and Ibeacon Technology for Auditing the Patrols**, *The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016)*, Girne American University, North Cyprus, 2-4 Nov. 2016.
  12. Murat Karakaya, Gokhan Şengul, Atila Bostan **Remotely Monitoring Activities of the Elders Using Smart Watches**, *The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016)*, Girne American University, North Cyprus, 2-4 Nov. 2016.
  13. Murat Karakaya, Ali Yazıcı, **Yazılım Mühendisliği Alanında Yayımlanan Tez ve Makalelerin SWEBOK a göre Değerlendirilmesi ve Yazılım Mühendisliği Eğitimi ve Projelerinin İyileştirilmesi için Öneriler**, *10. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'16)*, 24-26 Ekim 2016.
  14. Atila Bostan, Murat Karakaya, Erhan Gökçay, **Encouraging User-Trust to Internet-of-Things Implementations**, *9th International Conference on Information Security and Cryptology (ISCTURKEY 2016)*, Ankara, Turkey, Oct 25 to 26, 2016.
  15. Murat Karakaya, Atila Bostan, Erhan Gökçay, **How Secure is Your Smart Watch?**, *9th International Conference on Information Security and Cryptology (ISCTURKEY 2016)*, Ankara, Turkey, Oct 25 to 26, 2016.
  16. Atila Bostan, Murat Karakaya, Erhan Gökçay, **Meeting the Requirements of MÜDEK Program Outcomes Item 5 in Computer Engineering Programs**, *International Conference on Computer Science and Engineering (UBMK 2016)*, Tekirdağ, Turkey, Oct 20 to 23, 2016.
  17. Erhan Gökçay, Murat Karakaya, Atila Bostan, **A new Skeletonization Algorithm for Data Processing in Cloud Computing**, *International Conference on Computer Science and Engineering (UBMK 2016)*, Tekirdağ, Turkey, Oct 20 to 23, 2016.
  18. Erhan Gökçay, Murat Karakaya, Atila Bostan, **An Information Theoretic Approach To Edge Detection**, *International Conference on Computer Science and Engineering (UBMK 2016)*, Tekirdağ, Turkey, Oct 20 to 23, 2016.
  19. Murat Karakaya, Atila Bostan, Erhan Gökçay, **Prediction of Student Success Considering Attendancy and Midterm Grades**, *International Conference on Computer Science and Engineering (UBMK 2016)*, Tekirdağ, Turkey, Oct 20 to 23, 2016.
  20. Murat Karakaya, Ender Sevinc, **Planning Multiple UAVs to Visit Points of Interest Considering Flight Range and Service Time Constraints**, *The 2nd International Conference on Engineering and Natural Sciences (ICENS 2016)*, Sarajevo, Bosnia and Herzegovina, May 24 to 28, 2016.
  21. Ulaş Ozan Ceyhan, Murat Karakaya, **Investigating Students Success On Prerequisite Chain Courses**, *The 2nd International Conference on Engineering and Natural Sciences (ICENS 2016)*, Sarajevo, Bosnia and Herzegovina, May 24 to 28, 2016.
  22. Murat Karakaya, **Mobile Sink Scheduling Method for Wireless Sensor Networks under Travel Time Uncertainty**, *The 2nd International Conference on Network Technologies (ICNT 2015)*, Dubai, UAE, October 17-18, 2015.
  23. Senem Aktas, Nergiz Kilinc, Hazan Daglayan, Ibrahim Cereci, Murat Karakaya, **UAV Route Planing for Avoiding Enemy Radars**, *The 1st International Conference on Engineering and Natural Sciences (ICENS 2015)*, p. 161, Skopje, Macedonia, 15-19 May 2015.
  24. Nergiz Kilinc, Ibrahim Cereci, Hazan Daglayan, Senem Aktas, Murat Karakaya, **A Genetic Algorithm for Safe and Rapid Transmission of Military Vehicles in a Minefield**, *The 1st International Conference on Engineering and Natural Sciences (ICENS 2015)*, p. 139, Skopje, Macedonia, 15-19 May 2015.

25. Hazan Daglayan, Nergiz Kilinc, Senem Aktas, Ibrahim Cereci, Murat Karakaya, **Efficient Routing of Ambulances Aftermath of a Disaster**, *The 1st International Conference on Engineering and Natural Sciences (ICENS 2015)*, Skopje, Macedonia, p.145, 15-19 May 2015.
26. Murat Karakaya, Atila Bostan, **Yazılım Mühendisliği Eğitiminde Bitirme Projesinin Yürütülmesinde İki Farklı Yöntemin Öğrenci Bakış Açısıyla Değerlendirilmesi**, *9. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'15)*, 9-11 Eylül 2015.
27. Gokhan Şengul, Murat Karakaya, **A Service Oriented Architecture to Recognize Car Plates by Mobile Devices**, *The Second International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2014)*, Girne American University, North Cyprus, 5-7 Nov. 2014.
28. Murat Karakaya, Gokhan Şengul, **Determining firm logos using image processing techniques on a mobile device to aid blind people**, *The Second International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2014)*, Girne American University, North Cyprus, 5-7 Nov. 2014.
29. Murat Karakaya, **RSRP: Risk Sensitive Routing Protocol in Wireless Sensor Networks**, *The Second International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2014)*, Girne American University, North Cyprus, 5-7 Nov. 2014.
30. Ibrahim Cereci<sup>1</sup>, Hazan Daglayan, Nergiz Kilinc, Senem Aktaş, Murat Karakaya, **Efficient Data Gathering in WSN with a Range Constrained Mobile Relay**, *The Second International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2014)*, Girne American University, North Cyprus, 5-7 Nov. 2014.
31. Halil Savuran, Murat Karakaya, **Route Optimization Methods for Unmanned Air Vehicle Launched from a Carrier**, *4th International Conference on Computer and Software Modeling (ICCSM 2014)*, Bangkok, Thailand, 2014.
32. Ender Sevinc, Murat Karakaya, **Maximizing UAV Target Coverage under Flight Range and Target Service Time Constraints**, *4th International Conference on Computer and Software Modeling (ICCSM 2014)*, Bangkok, Thailand, 2014.
33. H. Savuran, H. Demirel, M. Karakaya, **Gemiye Konuşlu İnsansız Hava Aracının Hedeflere Rotalanmasının Optimizasyonu**, *7.Savunma Teknolojileri Kongresi (SAVTEK-2014)*, Haziran 2014.
34. H. Demirel, H. Savuran, M. Karakaya, **İnsansız Hava Araçları İçin Radar Kaplama Alanlarından Kacınacak En Kısa Rotanın Hesaplanması**, *7.Savunma Teknolojileri Kongresi (SAVTEK-2014)*, Haziran 2014.
35. Murat Karakaya, **A Local Optimization Technique for Assigning New Targets to the Planned Routes of Unmanned Aerial Vehicles**, *The First International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2013)*, 06-09 November 2013, Kyrenia, Turkish Republic of North Cyprus.
36. Murat Karakaya, **UAV Route Planning For Maximum Target Coverage**, *The First International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2013)*, Girne American University, North Cyprus, 2013.
37. M. Karakaya, A. Bostan, **Yazılım Mühendisliği Eğitiminde Bitirme Projesi Dersinin Öğrenci Bakış Açısıyla Değerlendirilmesi** (in Turkish), *7. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'13)*, Eylül 2013.
38. M. Karakaya, **En Az Sayıda İnsansız Hava Aracı Kullanarak Sabit Hedeflerin Gözetlenmesinin Planlanması** (in Turkish), *15. Otomatik Kontrol Ulusal Toplantısı ve Sergisi (TOK2013)*, Eylül 2013.
39. Murat Karakaya, **Modeling A Sensor Network Providing Road Security And Testing Its Feasibility via Simulations** (in Turkish), *The Fourth National Conference on Defense Applications, Modeling and Simulation (USMOS)*, 14-15 June 2011, Ankara, Turkey.

40. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy, **A Distributed and Measurement-Based Framework Against Free Riding in Peer-to-Peer Networks**, *The Fourth IEEE International Conference on Peer-to-Peer Computing*, 25-27 August 2004, Zurich, Switzerland.
41. Murat Karakaya, Ozgur Ulusoy, **Evaluation of a Broadcast Scheduling Algorithm**, *Advances in Databases and Information Systems (ADBIS'01), Lecture Notes in Computer Science (Springer Verlag)*, vol.2151, September 2001. (ISSN:0302-9743)

## BOOK CHAPTERS

- D. Katsaros, G. Yavas, A. Nanopoulos, M. Karakaya, Ö. Ulusoy, Y. Manolopoulos, **Resource Allocation in Wireless Networks**, in *Encyclopedia of Data Warehousing and Mining*, (John Wang, ed.), IDEA Group Reference, 2005.

## UNREFEREED PUBLICATIONS

- Murat Karakaya, **Yollara Yerleştirilen El Yapımı Patlayıcılara Karşı Kablosuz Algılayıcı Ağların Kullanımı**, *Cumhuriyet Bilim ve Teknoloji Dergisi*, No. 1358, March 29, 2013.

## SPONSORED PROJECTS AND GRANTS

1. *Project Manager*, **Automatic Survey Preparation and Evaluation System using Image Processing Techniques**, 2016-2017, supported by Atilim University LAP Research Program, Project No. ATU-LAP-C-1617-11, Budget: 8000 TL /~\$3000.
2. *Project Manager*, **A Smart Building Application: Determining Number of Victims Automatically in a Collapsed Building**, 2016-2017, supported by Atilim University LAP Research Program, Project No. ATU-LAP-C-1617-07, Budget: 8000 TL /~\$3000
3. *Project Manager*, **Remote Monitoring of Elderly People by Mobile Systems**, 2015-2016, supported by *Atilim University LAP Research Program*, Project No. ATU-LAP-C-1516-04, Budget: 8000 TL /~\$3000.
4. *Project Manager*, **A Smart Classroom Application: Monitoring and Reporting Class Attendance Automatically with Wireless Connection**, 2015-2016, supported by *Atilim University LAP Research Program*, Project No. ATU-LAP-C-1516-05, Budget: 8000 TL /~\$3000.
5. *Project Manager*, **Wireless Control System Design for Auditing the Patrol Officers**, 2014-2015, supported by Atilim University LAP Research Program, Project No. ATU-LAP-C-1415-12, Budget: 8000 TL /~\$4000.
6. *Project Manager*, **Identification of Reckless Drivers by Image Processing Techniques**, 2014-2015, supported by Atilim University LAP Research Program, Project No. ATU-LAP-C-1415-13, Budget: 8000 TL /~\$4000.
7. *Project Manager*, **Detection & Identification of Logos for Blinds using Smart Phones**, 2013-2014, supported by Atilim University LAP Research Program, Project No. ATU-LAP-C-1314-07, Budget: 9000 TL /4500\$
8. *Participant Researcher*, **Novel Information Society Technologies for Turkey** (Türkiye için Yeni Bilgi Toplumu Teknolojileri (BTT-Türkiye)), supported by TÜBİTAK, Project No.: TUBITAK-EEEAG-105E065, 2005 - 2008.

9. *Participant Researcher, Data Mining Techniques for the Location and Air-Cache Management Problems*, supported by TÜBİTAK and GSRT (The General Secretariat for Research and Technology of Greece), 2002 – 2004.

## **AWARDS / HONORS / ACHIEVEMENTS**

1. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2016.*
2. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2015.*
3. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2015.*
4. *Best Presentation Award, 2nd International Conference on Network Technologies (ICNT'15), Dubai, UAE, Oct.17-18, 2015.*
5. *Innovative Project Award, 5th Undergraduate Research Projects Fair (Lisans Araştırma Projeleri Şenliği LAP2015), Atilim University, Ankara, Turkey, May 22, 2015.*
6. *Best Presentation Award, 4th International Conference on Computer and Software Modeling (ICCSM'14), Bangkok, Thailand, Oct.10-12, 2014.*
7. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2013.*
8. *Postdoctoral Research Scholarship, The Scientific and Technical Research Council of Turkey (TUBITAK), 2010 - 2011.*
9. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2009.*
10. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2008.*
11. *TÜBİTAK International Publication Incentive, The Scientific and Technical Research Council of Turkey (TUBITAK), 2008.*
12. *ITIL Practitioner Certificate, Learning Tree Int., London/England, 2008.*
13. *PRINCE2 Practitioner Certificate, Learning Tree Int., Brussels/Belgium, 2007.*
14. *ITIL Foundation Certificate, Learning Tree Int., London/England, 2007.*
15. *Ph.D. Scholarship, The Scientific and Technical Research Council of Turkey (TUBITAK), 2000 - 2005.*
16. *Scientific Service Award, Georgian Military Academy, 2003.*
17. *Graduate Scholarship (Tuition), Bilkent University, during Graduate study from 1998 to 2008.*
18. *Project Award, Command of Artillery and Missile School, Third Place in the Project Competition (among 125 projects), 1995.*
19. *Gratification Award, Turkish Land Forces, in recognition of success in education and training, 1995.*

## **WORK EXPERIENCE**

- Chief of Software Project Office, Turkish Land Forces CIS Academy, Ankara, Turkey, 2008 - 2009.
- Chief of IS Projects Branch, NATO CIS Services Agency HQ, Mons, Belgium, 2005 - 2008.



- Chief of Software Development Branch, Turkish Military Academy, Ankara, Turkey, 2004 - 2005.
- Software Engineer, Turkish Military Academy, Ankara, Turkey, 2002 - 2004.
- IS Project Manager, Turkish Land Forces HQ, Ankara, Turkey, 1997 - 1998.

## ACADEMIC EXPERIENCE

- Associated Professor, Dept. of Computer Engineering, Atılım University, Ankara, Turkey, 2017 – present.
- Assistant Professor, Dept. of Computer Engineering, Atılım University, Ankara, Turkey, 2012 – 2017.
- Part Time Instructor, Dept. of Computer Engineering, Middle East Technical University (METU), Ankara, Turkey, 2012 - Present.
- Instructor, Dept. of Computer Engineering, Turkish Military Academy (KHO), Ankara, Turkey, 2011 - 2012.
- Instructor, Dept. of System & Management, Turkish Military Academy, Ankara, Turkey, 2009 - 2011.
- Instructor, Dept. of Computer Engineering, Turkish Land Forces CIS Academy, Ankara, Turkey, 2008 - 2009.
- Instructor, Dept. of System & Management, Georgian Military Academy, Tbilisi, Georgia, 2003.
- Instructor, Dept. of Technical Sciences, Turkish Military Academy, Ankara, Turkey, 2000 - 2002.

## TEACHING

- Algorithms @ Atılım : Fall 2016
- Project Orientation @ Atılım : Fall 2013, Fall 2014, Spring 2015
- Object-Oriented Data Structures @ Atılım : Fall 2014, Fall 2015, Spring 2016
- Operating Systems @ Atılım : Fall 2013
- Natural Computing @ Atılım : Fall 2013, Spring 2015
- Advanced Database Systems @ Atılım : Spring 2015, Fall 2016, Spring 2017
- Introduction to Database Management Sys. @ Atılım : Fall 2017
- Database Design & Management @ Atılım : Fall 2015, Fall 2017
- Database Systems and Programming @ Atılım : Spring 2013, Fall 2014, Fall 2015, Spring 2017
- Senior Project @ Atılım : Fall 2012, Spring 2013
- Introduction to Computer Engineering and Programming @ Atılım: Fall 2012, Fall 2015
- Database Management Systems @ METU :Spring 2012, Fall 2012, Spring 2013
- Database Management Systems @ KHO SBE : Fall 2011
- Information Security @ KHO : Spring 2009
- Operating Systems @ KHO SBE : Fall 2009
- Computer Architecture @ Turkish Army CIS School : Fall 2008
- Computer Programming @ Atılım : Spring 2017
- Introduction to Computers & Programming @ KHO : Fall 2000, Spring 2001, Fall 2001, Spring 2002, Fall 2009, Spring 2010, Spring 2011, Fall 2011, Spring 2012

## TALKS / SEMINARS

1. **A Genetic Algorithm for Maximizing Target Coverage of Unmanned Aerial Vehicle Carried on a Mobile Platform**, *University of Malta, Sliema, Malta, 3-7 April 2017.*
2. **An Introduction to Knowledge Discovery in Databases**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2015.*
3. **Ethics in Information Technologies**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2015.*
4. **An Introduction to Databases**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2014.*
5. **Ethics in Information Technologies**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2014.*
6. **Knowledge Discovery in Databases**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2013.*
7. **Knowledge Discovery in Databases**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2012.*
8. **Knowledge Discovery in Databases**, *Turkish Partnership for Peace (PfP) Training Center, Ankara, Turkey, 2011.*
9. **NATO CIS Services**, *NATO CIS School, Latina, Italy, 2005 – 2008.*
10. **Peer-to-Peer Networks: Free Riding, and Counter-Mechanisms**, *Department of Computer Engineering, Bilkent University, Ankara, Turkey, 2004.*
11. **ARG: A Tool for Automatic Report Generation**, *Electrical and Electronics Engineering Department, Istanbul University, Istanbul, Turkey, 2003.*

## JOURNAL EDITORIAL BOARD MEMBER

1. Editorial Board Member, *Journal of Telecommunications System & Management*, 2013 – Current.
2. Editorial Board Member, *Electrical & Electronic Technology Open Access Journal*, MedCrave Group, 2017 - Current
3. Editor, *Turkish Journal of Electrical Engineering and Computer Sciences*, TUBITAK, ISSN: 1300-0632, 2016, 2017
4. Editorial Board Member, *Turkish Military Academy Science Journal*, 2009 – 2012.

## CONFERENCE COMMITTEE MEMBER

1. Technical Committee Member, 11th IEEE International Conference on Open Source and Systems and Technologies (ICOSST 2017), Al-Khawarizmi Institute of computer Science, UET, Lahore, Pakistan, 18th-20th December, 2017
2. Technical Committee Member, 17th IEEE International Conference on Communication Technology (IEEE-ICCT 2017), Chengdu, China, October 27-30, 2017
3. Session Chair, 11. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'16), Alanya, Turkey, 18-20 Ekim 2017
4. Program Committee Member, 11. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'16), Alanya, Turkey, 18-20 Ekim 2017

5. Technical Committee Member, 9th IEEE International Conference on Communication Software and Networks (ICCSN 2017), Guangdong University of Technology, Guangzhou, China, May 6-8, 2017
6. Scientific Committee Member, 10th International Conference on Information Security and Cryptology (ISCTURKEY 2017), 20-21 Ekim 2017, Ankara, Turkey
7. International Program Committee Member, The 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2017), September 21-23, 2017, Bucharest, Romania
8. Scientific Committee Member, The Fifth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2017), 2017
9. Scientific Committee Member, 2nd International Conference on Computer Science and Engineering (UBMK 2017), Antalya, Turkey, 5-7 October 2017.
10. Program Committee Member, The Seventh National Conference on Defense Applications, Modeling and Simulation (USMOS), Ankara, Turkey 2017
11. Technical Committee Member, 2017 Sinyal İşleme ve İletişim Uygulamaları (SIU2017), Antalya, Turkey, May 15 – 18, 2017
12. Technical Committee Member, 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON), Kyiv, Ukraine, May 29 – June 2, 2017
13. Technical Committee Member, The International Conference on Computer and Communications (ICCC 2017), Chengdu, China, October 10-11, 2017.
14. Scientific Committee Member, The International Congress on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, May 3-7, 2017.
15. Technical Program Committee Member, International Symposium on Networks, Computers and Communications (ISNCC), 2017.
16. International Program Committee Member, International Conference on Control, Automation and Diagnosis (ICCAD'17), 2017.
17. Scientific Committee Member, 9th International Conference on Information Security and Cryptology (ISCTURKEY 2016), 2016.
18. Scientific Committee Member, International Conference on Computer Science and Engineering (UBMK 2016), 2016.
19. Scientific Committee Member, The Fourth International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2016), 2016.
20. Technical Committee Member, 8th IEEE International Conference on Communication Software and Networks (ICCSN 2016), Beijing, China, June 4-6, 2016.
21. Program Committee Member, 11th Asia Pacific International Conference on Information Science and Technology (APIC-IST 2016), Hokkaido, Japan, June 26 - 29, 2016.
22. Technical Committee Member, The International Conference on Computer and Communications (ICCC 2016), Chengdu, China, October 10-11, 2016.
23. Scientific Committee Member, The International Congress on Engineering and Natural Sciences (ICENS 2016), Skopje, Macedonia, May 24-28, 2016.
24. Program Committee Member, 10. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'16), Çanakkale, Turkey 2016.
25. Scientific Committee Member, The Third International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2015), 2015.
26. Program Committee Member, 9. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'15), Izmir, Turkey 2015.
27. Program Committee Member, The Sixth National Conference on Defense Applications, Modeling and Simulation (USMOS), Ankara, Turkey 2015.
28. Technical Committee Member, The 7th International Conference on Future Computer and Communication (ICFCC 2015), Singapore, May 20-22,, 2015.

29. Technical Committee Member, The International Conference on Computer and Communications (ICCC 2015), Chengdu, China October 10-11, 2015.
30. Scientific Committee Member, The International Congress on Engineering and Natural Sciences (ICENS 2015), Skopje, Macedonia May 15-19, 2015.
31. Special Session Organizer, The 2015 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2015), Istanbul, Turkey August 2-5, 2015.
32. Technical Committee Member, The 4th International Conference on Computer and Software Modeling, Bangkok, Thailand Oct.10-12, 2014.
33. Organizing Committee Member, International Conference and Business Expo on Wireless Communication, 2015.
34. Technical Committee Member, The 4th International Conference on Computer and Software Modeling Bangkok, Thailand Oct.10-12, 2014.
35. Scientific Committee Member, The Second International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2014), 2014
36. Program Committee Member, The Sixth National Conference on Defense Applications, Modeling and Simulation (USMOS), 2013.
37. Program Committee Member, The Fourth National Conference on Defense Applications, Modeling and Simulation (USMOS) 2011.

## REFREE / REVIEWER

1. Reviewer, 2 Papers, 11th IEEE International Conference on Open Source and Systems and Technologies (11th IEEE ICOSST 2017), Al-Khawarizmi Institute of computer Science, UET, Lahore, Pakistan, 18th-20th December, 2017
2. Reviewer, 1 Paper, KSII Transactions on Internet and Information Systems, the National Research Foundation under the Ministry of Education, Science and Technology (MEST) and the Korean Federation of Science and Technology Societies (KOFST), eISSN: 1976-7277, 2017
3. External referee (Dış Danışman), 1 Project, TÜBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 11/09/2017
4. Panelist, 3 Projects, TÜBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 2017-1-1003 Bulut Bilişim 2, 17/08/2017
5. Reviewer, 3 Papers, The International Conference on Computer and Communications (ICCC 2017), Chengdu, China, Dec 13-16, 2017
6. Reviewer, 3 Papers, 10th International Conference on Information Security and Cryptology (ISCTURKEY 2017), Ankara, Turkey, 20-21 Ekim 2017
7. Referee, TÜBİTAK TEYDEB, 1501-Sanayi Ar-Ge Projeleri Destekleme Programı, 14/07/2017
8. Reviewer, 4 Papers, 11. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'17), Alanya Hamdullah Emin Paşa (HEP) Üniversitesi, Turkey 18-20 Ekim 2017
9. Reviewer, Computers & Operations Research, Elsevier, ISSN: 0305-0548, 2017
10. Reviewer, Autonomous Robots, Springer, ISSN: 0929-5593 (print version), 2017
11. Reviewer, 3 Papers, Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı (USMOS 2017), Ankara, Turkey, 21-23 Nov. 2017
12. Reviewer, 3 Papers, International Conference on Computer Science and Engineering (UBMK 2017), Antalya, Turkey, 5-8 Oct. 2017
13. Reviewer, 1 papers, 9th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS'2017), Bucharest, Romania, September 21-23, 2017

14. Referee, TUBİTAK TEYDEB, 1501-Sanayi Ar-Ge Projeleri Destekleme Programı, 09/06/2017
15. Referee, TUBİTAK TEYDEB, 1507-KOBİ Ar-Ge Başlangıç Destek Programı, 22/05/2017
16. Panelist, 5 Projects, TUBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 2017-1-GÖRÜNTÜ İŞLEME 2, 12/05/2017
17. Monitor, TUBİTAK TEYDEB - 1512 Girişimcilik Aşamalı Destek Programı, 14/04/2017 - 14/04/2018
18. Reviewer, 1 papers, The 3rd International Conference on Fuzzy Systems and Data Mining (FSDM), National Dong Hwa University, Hualien, Taiwan, Nov. 24-27, 2017
19. Reviewer, ETRI Journal, Electronics and Telecommunications Research Institute (ETRI), ISSN 1225-6463, 2017
20. Reviewer, 3 papers, 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON), Kyiv, Ukraine, May 29 – June 2, 2017
21. Reviewer, 3 papers, Sinyal İşleme ve İletişim Uygulamaları (SIU2017), 2017
22. Reviewer, IEEE Access, The Multidisciplinary Open Access Journal, 2017
23. Reviewer, The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2017), 2017
24. Reviewer, The International Symposium on Networks, Computers and Communications (ISNCC), 2017
25. Reviewer, 3 Papers, 9th IEEE International Conference on Communication Software and Networks (ICCSN 2017), 2017
26. Reviewer, Asian Journal of Mathematics and Computer Research, 2016
27. Reviewer, 9th IEEE International Conference on Communication Software and Networks (ICCSN 2017), 2016
28. Reviewer, 3 Papers, 9th International Conference on Information Security and Cryptology (ISCTURKEY 2016), 2016
29. Reviewer, 4 Papers, International Conference on Computer Science and Engineering (UBMK 2016), 2016
30. Reviewer, 3 Papers, The International Conference on Computer and Communications (ICCC 2016), 2016
31. External referee (Dış Danışman), TUBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 1002 Hızlı Destek Programı, 17/07/2016
32. Reviewer, 4 Papers, 10. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'15), 2016
33. Reviewer, Journal of the Electronics and Telecommunications Research Institute (ETRI), 2016
34. Reviewer, IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016
35. Reviewer, 8th IEEE International Conference on Communication Software and Networks (ICCSN 2016), 2016
36. Reviewer, The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2016), 2016
37. Reviewer, KSII Transactions on Internet and Information Systems, 2016
38. Panelist, TUBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 2016-1-1003 Metin Madenciliği, 05/02/2016
39. Referee, TUBİTAK 1507-KOBİ Ar-Ge Başlangıç Destek Programı, 05/01/2016
40. Panelist, TUBİTAK EEEAG - Elektrik, Elektronik, Enformatik Araştırma Destek Grubu, 2015-1-Biyomedikal Görüntüleme Sistemleri, 26 Ağustos 2015
41. Reviewer, Journal of the Electronics and Telecommunications Research Institute (ETRI), 2015
42. Reviewer, KSII Transactions on Internet and Information Systems, 2015
43. Reviewer, 9. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'15), 2015
44. Reviewer, International Journal of Advancements in Technology, 2015
45. Reviewer, The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2015), 2015
46. Reviewer, The 7th International Conference on Future Computer and Communication, 2015

47. Referee, Teknogirisim Sermayesi Desteği Değerlendirme Komisyonu, Bilim, Sanayi ve Teknoloji Bakanlığı, 2015
48. Refree, AR-GE Merkezi Değerlendirme/Denetim Komisyonu, Bilim, Sanayi ve Teknoloji Bakanlığı, 2014
49. Reviewer, International Journal of Distributed Sensor Networks, 2014
50. Reviewer, The 4th International Conference on Computer and Software Modeling Bangkok, Thailand Oct.10-12, 2014
51. Reviewer, The Defense Against Terrorism Review (DATR), 2014
52. Reviewer, Turkish Journal of Electrical Engineering & Computer Sciences, 2014
53. Reviewer, The International Journal of Computing and Informatics (CAI), 2013.
54. Reviewer, The Sixth National Conference on Defense Applications, Modeling and Simulation (USMOS), 2013.
55. Reviewer, Teknogirişim Sermayesi Desteği Değerlendirme Komisyonu, Bilim, Sanayi ve Teknoloji Bakanlığı, 2013.
56. Reviewer, The International Journal of Computing and Informatics (CAI), 2013
57. External Reviewer, 27th International Conference on Data Engineering, 2011.
58. External Reviewer, ACM SIGMOD 2011.
59. Reviewer and Session Chairman, The Fourth National Conference on Defense Applications, Modeling and Simulation (USMOS) 2011.
60. Reviewer, 5th Defense Technologies Congress (SAVTEK), 2010.
61. Reviewer, The International Journal of Computer and Telecommunications Networking (Elsevier Computer Networks), 2010.
62. Reviewer, IEEE Internet Computing, 2009.

## **COMPUTER SKILLS**

- Languages: Java, C/C++, Pascal, Perl, SQL, PL/SQL, HTML, ASP. NET, Delphi
- Operating Systems: Windows, Linux
- Database Management Systems: Microsoft SQL Server, ORACLE, MySQL
- Tools: MS Project Manager, TOAD, Data Modeler, Eclipse IDE, SQL Developer
- Simulation Tools: MASON, CSIM

## **LANGUAGES**

- Turkish (native)
- English (fluent) KPDS Grade A (95/100)
- French (fluent) KPDS Grade B (82/100)
- Italian (basic)

**REFERENCES ARE AVAILABLE UPON REQUEST**